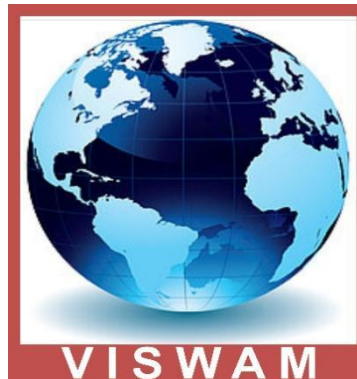




**SELF ASSESSMENT REPORT (SAR)
UNDERGRADUATE ENGINEERING PROGRAMS**

Submitted by



VISWAM ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Affiliated to Jawaharlal Nehru Technological University Anantapur

**Accredited by NAAC “A” Grade and Recognized by AICTE, New Delhi Angallu,
Madanapalle**

Chittor District, Andhra Pradesh-517325

E-mail: principal@viswamengg.in

SAR Contents

Section	Item	Page No.
PART A	Institutional Information	I-VIII
PART B	Criteria Summary	IX
1	Vision, Mission & Program Educational Objectives	1-13
2	Governance, Leadership & Financial Resources	14-233
3	Program Outcomes & Course Outcomes	234-290
4	Curriculum & Learning Process	291-318
5	Student Quality and Performance	319-430
6	Faculty Attributes and Contributions	431-455
7	Industry & International Connect	456-512
8	Infrastructure	513-557
9	Alumni Performance and Connect	558-672
10	Continuous Improvement	673-726
PART C	Declaration by the Institution	
Annexure-I	Program Outcomes (POs)	

PART A Institutional INFORMATION**1. Name and Address of the Institution:****Viswam Engineering College**

Angallu, Madanapalle

Chittor District, Andhra Pradesh-517325

2. Name and Address of the Affiliating University:**Jawaharlal Nehru Technological University Anantapur**

Ananthapuramu, Andhra Pradesh-515002.

3. Year of establishment of the Institution: 2006**4. Type of the Institution:**University Deemed University Government Aided Autonomous Affiliated **5. Ownership status:**Central Government State Government Government Aided Self Financing Trust Society Section 25 Company Any other (Please Specify)

6. Other Academic Institutions of the Trust/Society/Company etc., if any:

Name of the Institution(s)	Year of Establishment	Programs of Study	Location
VISWAM DEGREE & PG COLLEGE	2001	B.Sc,B.Com,BBA,M.Com	Angallu, Madanapalle, Annamayya dist, Andhra Pradesh-517325
VISWAM SCHOOL CBSE	2001	Nursery to 12th Standard	Angallu, Madanapalle, Annamayya dist, Andhra Pradesh-517325

Table A.6 Note: Add rows as needed

7. Details of all the programs being offered by the institution under consideration:

S.NO	Program Name	Name of the Department	Year of Start	Intake	Increase in intake if any	Year of increase	AICTE Approval	Accreditation Status.
1	Computer Science & Engg.	CSE	2006	60	YES 60	2012	Approved	Applying first time
2	Electronics & Communication Engg.	ECE	2006	60	YES 60	2012	Approved	Applying first time
3	Civil Engineerin	CIVIL	201	60	YES	2014	Appro	Eligible but not

	g		0				ved	applied
4	Electrical & Electronics Engineering	EEE	2006	60	NO	NA	Approved	Eligible but not applied
5	Mechanical Engineering	MECH	2010	60	YES	2014	Approved	Not eligible for accreditation
6	Artificial Intelligence & Data Science	AI&DS	2022	60	NO	NA	Approved	Not eligible for accreditation
7	Masters in Business Administration	MBA	2010	60	YES 180	2011 & 2014	Approved	Applying first time
8	M.Tech- Software Engineering	CSE	2012	18	NO	NA	Approved	Eligible but not applied
9	M.Tech- Embedded systems	ECE	2012	18	NO	NA	Approved	Eligible but not applied
10	M.Tech-	MECH	201	18	NO	NA	Appro	Eligible

	Machine Design		4				ved	but not applied
11	M.Tech-Structural engineering	CIVIL	2014	18	NO	NA	Approved	Eligible but not applied

Write Applicable One:

- Applying first time
- Granted provisional accreditation for two/three years for the period (Specify period)
- Granted accreditation for 5/6 years for the period (Specify period)
- Not Accredited (Specify visit dates, year)
- Withdrawn (Specify Visit dates, year)
- Not eligible for accreditation
- Eligible but not applied

Note: Add rows as needed.

8. Programs to be considered for Accreditation vide this application

S.NO	Program Name
1.	Computer Science & Engg.
2.	Electronics & Communication Engg.
3.	Masters in Business Administration

Table A.8

9.Total Number of employees in the institution:**A. Regular Employees (Faculty & Staff):**

Items		CAY-2023-24		CAYm1 2022-23		CAYm2 2021-22	
		MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering	M	58	58	74	74	65	65
Faculty in Engineering	F	53	53	38	38	45	45
Faculty in Maths, Science & Humanities	M	15	15	16	16	17	17
Faculty in Maths, Science & Humanities	F	11	11	8	8	6	6
Non-teaching staff	M	78	78	75	75	72	73
Non-teaching staff	F	20	20	16	16	14	14

Table A.9a**Note:**

All the faculty whether regular or contractual (except part-time or hourly based), will be 5 considered. The contractual faculty appointed with any terminology whatsoever, who have taught for 2 consecutive semesters with or without break between the 2 semesters in corresponding academic year on full-time basis shall be considered for the purpose of calculation in the faculty student ratio. However, following will be ensured in case of contractual faculty

1. Shall have the AICTE prescribed qualifications and experience.

2. Shall be appointed on full time basis and worked for consecutive two semesters with or without break between the 2 semesters during the particular academic year under consideration.

3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit.

CAY – Current Academic Year

CAYm1- Current Academic Year minus1 = Current Assessment Year

CAYm2 - Current Academic Year minus2=Current Assessment Year minus 1

B. Contractual Staff Employees (Faculty & Staff): (Not Covered in Table A)

Items		CAY-2023-24		CAYm1 2022-23		CAYm2 2021-22	
		MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering	M	0	0	0	0	0	0
Faculty in Engineering	F	0	0	0	0	0	0
Faculty in Maths, Science & Humanities	M	0	0	0	0	0	0
Faculty in Maths, Science & Humanities	F	0	0	0	0	0	0
Non-teaching staff	M	0	0	0	0	0	0
Non-teaching staff	F	0	0	0	0	0	0

Table A.9b

10. Total number of students:**Engineering and Technology- UG Shift-1**

Course Name	2023-24	2022-23	2021-22
Total no. of Boys	590	466	530
Total no. of Girls	473	357	396
Total	1063	823	926

Engineering and Technology- PG Shift-1

Course Name	2023-24	2022-23	2021-22
Total no. of Boys	13	15	15
Total no. of Girls	11	14	12
Total	24	29	27

Engineering and Technology- MBA Shift-1

Course Name	2023-24	2022-23	2021-22
Total no. of Boys	195	165	170
Total no. of Girls	127	95	116
Total	322	260	286

(Instruction: The data may be categorized in tabular form separately for undergraduate, postgraduate engineering, other program, if applicable)

Note: In case the Institution is running AICTE approved additional courses such as MBA, MCA in the first shift, engineering courses in the second shift, Polytechnic in Second shift etc., separate tables with the relevant heading shall be prepared.

11. Vision of the Institution:

To be a center of excellence for engineering and management education, research, and knowledge application for the good of society with a blend of moral principles and a global perspective.

12. Mission of the Institution:

- To promote engineering research and development while offering top-notch education in the field.
- To foster entrepreneurship and the development of new, cutting-edge technological applications.
- To develop the students into strong, socially responsible leaders

13. Contact Information of the Head of the Institution and NBA coordinator, if designated

- i. Name: Dr.D Ramana Reddy
Designation: Principal
Mobile No: 9505021077
Email id: principal@viswamengg.in
- ii. NBA coordinator,if designated:

PART B: Criteria Summary

Name of Program: Computer Science and Engineering

Criteria No.	Criteria	Mark / Weightage
Program Level Criteria		
1	Vision, Mission & Program Educational Objectives	60
2	Governance, Leadership & Financial Resources	120
3	Program Outcomes & Course Outcomes	120
4	Curriculum & Learning Process	150
5	Student Quality and Performance	200
6	Faculty Attributes and Contributions	80
7	Industry & International Connect	50
8	Infrastructure	50
9	Alumni Performance and Connect	50
10	Continuous Improvement	120
TOTAL		1000

Criterion 1	Vision, Mission and Program Educational Objectives	60
--------------------	---	-----------

1. Vision, Mission and Program Educational Objectives (60)

1.1. State the Vision and Mission of the Department and Institute (5/5)

Vision of the Institute:

To be a center of excellence for engineering and management education, research, and knowledge application for the good of society with a blend of moral principles and a global perspective.

Mission of the Institute:

M1	To promote engineering research and development while offering top-notch education in the field.
M2	To foster entrepreneurship and the development of new, cutting-edge technological applications.
M3	To develop the students into strong, socially responsible leaders.

Vision of the Department:

To envision a Computer Science and Engineering department that cultivates a culture of curiosity, creativity, and excellence, where students and faculty thrive in an inclusive and supportive environment. We are committed to fostering a deep understanding of core principles and social ethics while embracing emerging trends and technologies.

Mission of the Department:

M1	Provide the environment to become industry ready Professionals, Scientists and Industrialists by offering courses on leading edge technology and innovative laboratory courses for the students.
M2	Impart high quality experiential learning to get expertise in modern software tools and to cater to the real time requirements of the industry.
M3	Inculcate problem solving and team building skills and promote lifelong learning with a sense of societal and ethical responsibilities.

The vision of the department ultimately aims at the progress of the society. This formulation is a long term goal which describe the future state of the Department i.e., to become a Centre of excellence in the field of Mechanical Engineering. This can be achieved by unceasing research with the use of innovative technologies through various elements mentioned in Mission statements.

Mapping of Department Vision and Mission with Institute Vision Mission

institute Department	Mission-1	Mission-2	Mission-3
Mission-1	3	3	2
Mission-2	3	3	2
Mission-3	2	2	3

Note: M1, M2, are distinct elements of Mission statement. Enter correlation levels 1, 2 or 3 as defined as **1: Slight (Low)** **2: Moderate (Medium)**

3: Substantial (High)

1.2.State the Program Educational Objectives (PEOs) (5/5)

The educational objectives of the Computer Science and Engineering program are the statements that are designed based on the Program Outcomes, Vision and Mission of the Department. The PEOs are the expected achievements of the graduates in their career during the first few years after graduation.

PEO No.	Program Educational Objectives Statements
PEO1	To cultivate individuals with a robust base of expertise and abilities in the realm of computer science and engineering, ensuring they graduate well-equipped for the field.
PEO2	To analyze existing frameworks and contemporary trends in a specialized manner, and devise inventive solutions that align with the evolving landscape of computer engineering through higher studies

PEO3	To generate the capability for leadership and teamwork, analytical thinking for handling crucial issues, and rigid ethical principles for responsible professionals
-------------	---

1.3. Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (10/10)

The Vision, Mission and PEOs are published and disseminated among various stakeholders to ensure awareness. The stakeholders include parents, faculty, Governing body members, students, employers, industry, alumni, etc. The modes and occasions of this process are detailed below.

Dissemination of Institute and Department Vision, Mission and PEOs are listed below

❖ Vision and Mission of the Institute are

Published in	Disseminated through	Displayed at
<ul style="list-style-type: none"> • Institute Website • Institute Brochure • Course files • Placement Brochure • Lab Manuals • Lab record Books • Student Mentoring Books 	<ul style="list-style-type: none"> • Faculty Development Programs • Seminars • Workshops • Alumni Meetings • Parents Teacher Meeting • First Year orientation program 	<ul style="list-style-type: none"> • Central Library • Principal Chamber • HoD Chamber • Classrooms • Laboratories • Administrative office • Departments Corridors • Seminar Hall • Hostel • Canteen • Training & Placement Cell • Notice Boards

❖ **Vision and Mission of the Department are**

Published in	Disseminated through	Displayed at
<ul style="list-style-type: none"> • Institute Website • Lab Manuals • Course files • Student Mentoring Books 	<ul style="list-style-type: none"> • Faculty Development Programs • Seminars • Workshops • Alumni Meetings • Parents Teacher Meeting • First Year orientation program • Meeting with HRs during placement drives • Department association activities 	<ul style="list-style-type: none"> • HoD Chamber • Department Library • Department staircase • Notice Boards • Classrooms • Laboratories • Staff Rooms

❖ **Department PEOs are**

Published in	Disseminated through	Displayed at
<ul style="list-style-type: none"> • Institute Website • Lab Manuals • Course files • Student Mentoring Books 	<ul style="list-style-type: none"> • Faculty Development Programs • Seminars • Workshops • Alumni Meetings • Parents Teacher Meeting • First Year orientation program • Meeting with HRs during placement drives • Department association activities 	<ul style="list-style-type: none"> • Department Library • HoD Chamber • Notice Boards • Classrooms • Laboratories • Department staircase • Staff Rooms

- The Institute Vision, Mission are displayed in Institute website <https://viswamengg.in/>
- The Department Vision, Mission and PEOs are displayed in Department website: <https://viswamengg.in/p.php?id=36>

The vision, mission, Program Education Objectives (PEOs) and Program Specific Outcomes (PSOs) of B. Tech in Computer Science and Engineering were framed to implement and inculcate outcome-based education and entail the faculty, students and various stakeholders towards outcome-based education.

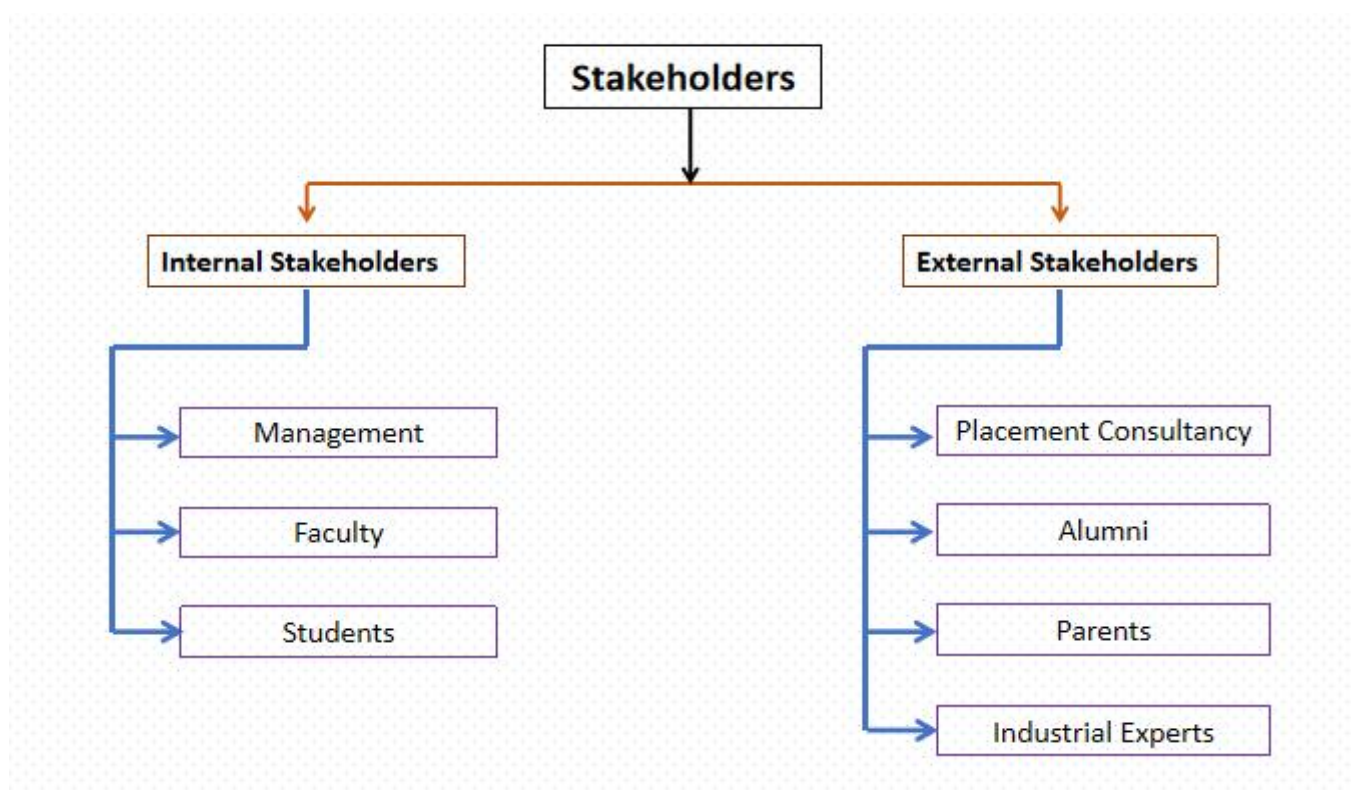


Figure1.3.1 List of Stake holders

Stakeholders of the Program are classified as internal and external. faculty members, Students and management are categorized as Internal Stakeholders whereas Alumni, placement consultancy, Parent and industrial experts are categorized as External Stakeholders.

1.4. State the process for defining the Vision and Mission of the Department, and PEOs of the program (25/25)**A. Steps for Defining Vision and Mission of the Department (10/10)**

The process of defining Vision and Mission of the Department was discussed and formulated through a consultative process involving the stakeholders of the department. The department vision and mission process flow chart is shown in Figure 1.4.1. In formulating the Vision and Mission of the Department, the following steps are followed:

Process of defining the Vision & Mission of the Department

Step 1: The Department Advisory Committee (DAC) consists of Program Coordinator and two senior faculty members marshal a meeting with the stakeholders.

Step 2: Formulate preliminary copy of Vision and Mission of the department that is in line with institute Vision and Mission

Step 3: Academic Committee of Viswam Engineering College consists of senior members Corroborate the preliminary copy of Vision and Mission

Step 4: The above steps are iterated, if the College Academic Committee is not contended by the statements incorporated in Vision and Mission.

Step 5: Department Advisory Committee refines the Vision and Mission declarations by assimilating suggestions from the College Academic committee.

Step 6: The final copy of department Vision and Mission is ready for the approval of the principal.

Step 7: The approved draft of Vision and Mission statements are published, disseminated and displayed <https://viswamengg.in/>.

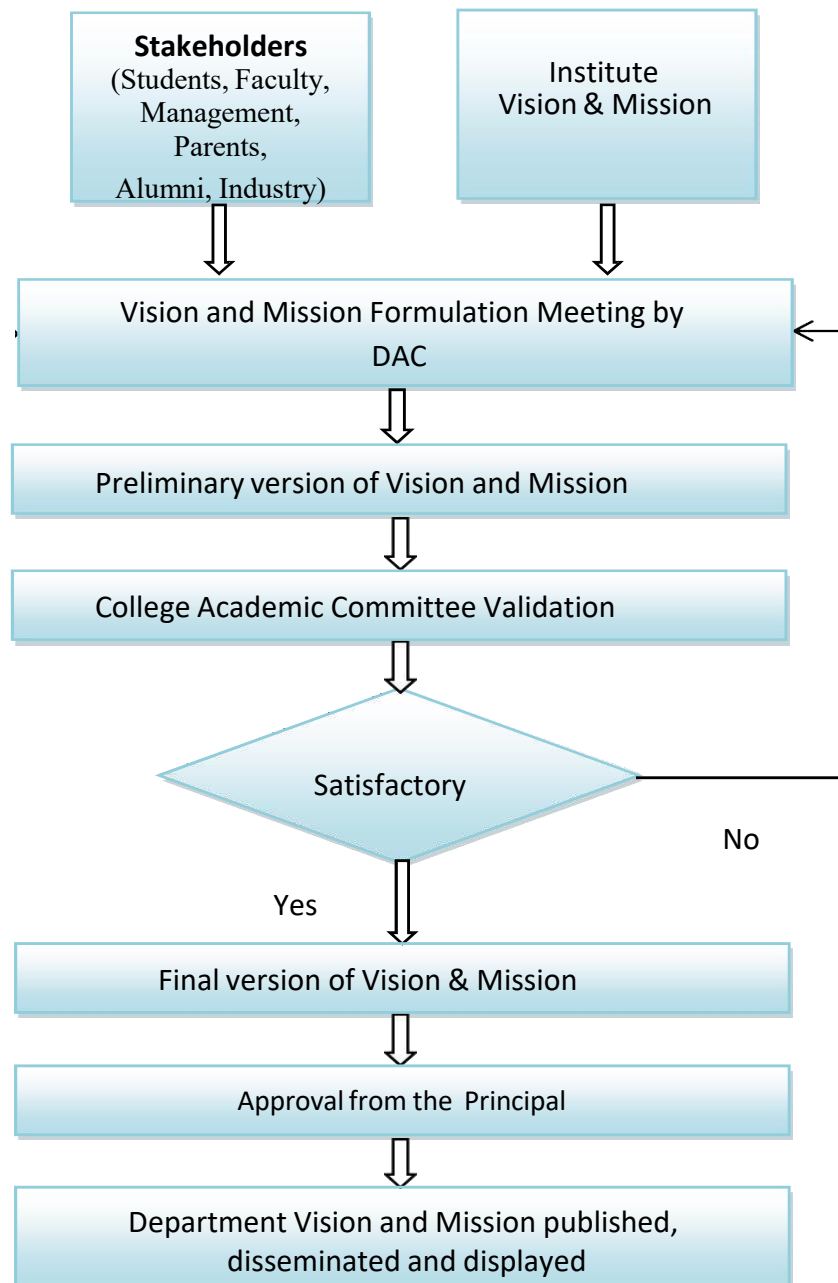


Figure A.1.4.1: Flow chart Showing the process defining Department Vision and Mission

B. Description of process involved in defining the PEOs of the program (15/15)

PEOs are drafted, formulated and finalized by active involvement of all the stakeholders

Step 1: The Department Advisory Committee (DAC) consists of program coordinator and two senior faculty members in consultation with the stakeholders organize a meeting.

Step 2: Formulate preliminary copy of PEOs referring department Vision and Mission along with the POs.

Step 3: College Academic Committee of Viswam Engineering College consists of senior members Corroborate the preliminary copy of PEOs.

Step 4: If the PEO statements are in society to satisfied in College Academic Committee validation the above steps are iterated.

Step 5: Department advisory committee refines the PEO statements by incorporating suggestions taken from the College Academic committee.

Step 6: The final copy of department PEOs is ready for the approval of the principal.

Step 7: The approved copy of PEO statements is published, disseminated and displayed <https://viswamengg.in/p.php?id=36>.

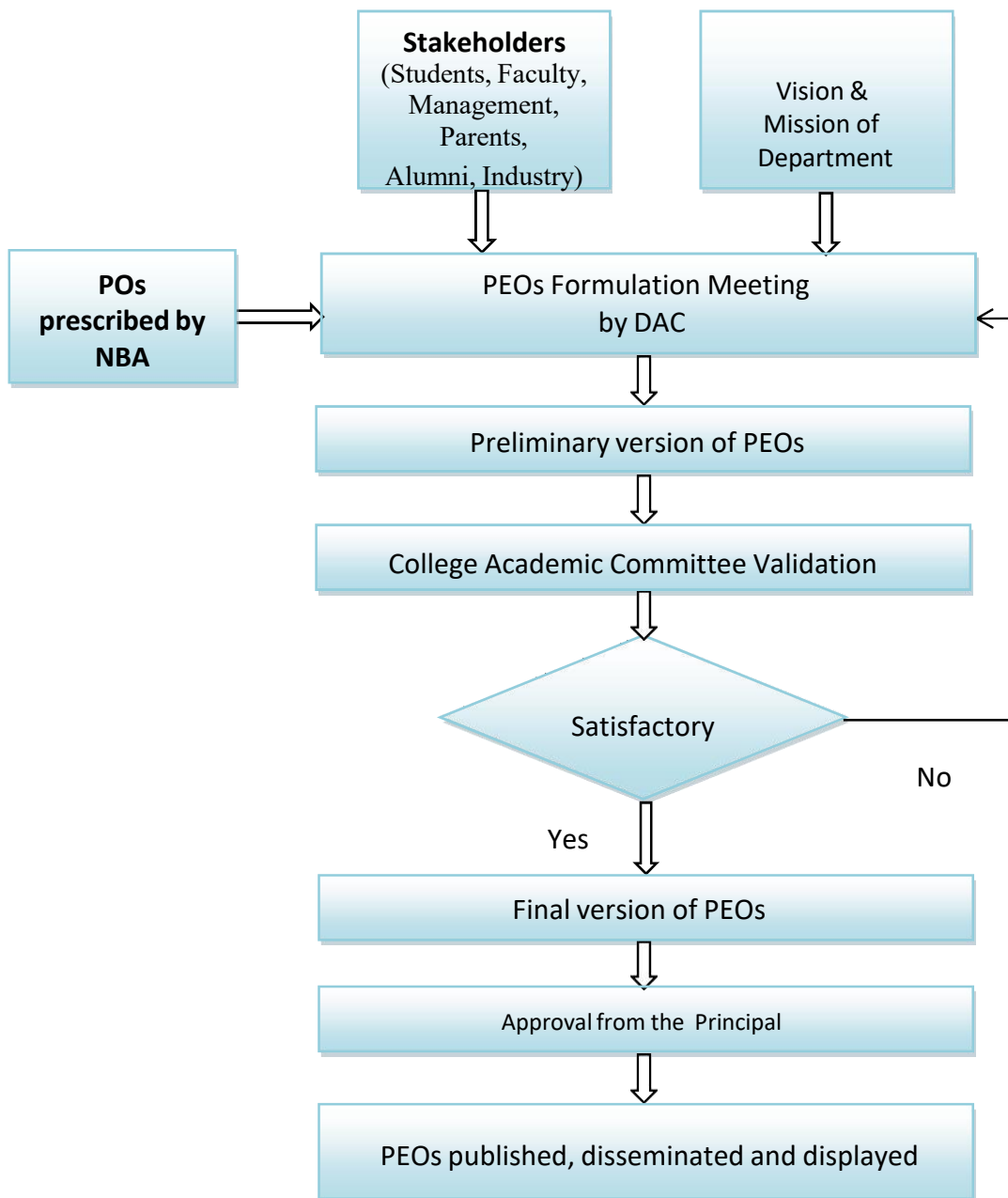


Figure B.1.4.2:Flowchart for defining PEOs

1.5 Establish consistency of PEOs with Mission of the Department (15/15)

1.5.1 Mapping of PEO with the Mission of the Department

<p>Mission</p> <p>Key elements</p> <p>PEOs</p>	<p>M1</p> <p>Provide the environment to become industry ready Professionals, Scientists and Industrialists by offering courses on leading edge technology and innovative laboratory courses for the students.</p>	<p>M2</p> <p>Impart high quality experiential learning to get expertise in modern software tools and to cater to the real time requirements of the industry.</p>	<p>M3</p> <p>Inculcate problem solving and team building skills and promote lifelong learning with a sense of societal and ethical responsibilities.</p>
<p>PEO1: To cultivate individuals with a robust base of expertise and abilities in the realm of computer science and engineering, ensuring they graduate well-equipped for the field</p>	<p>3</p>	<p>3</p>	<p>2</p>
<p>PEO2: To analyze existing frameworks and</p>	<p>3</p>	<p>3</p>	<p>2</p>

contemporary trends in a specialized manner, and devise inventive solutions that align with the evolving landscape of computer engineering through higher studies			
PEO3: To generate the capability for leadership and teamwork, analytical thinking for handling crucial issues, and rigid ethical principles for responsible professionals.	1	1	3

Table A.1.5.1: Mapping of Department Missions with PEOs

Note: *M1, M2, are distinct elements of Mission statement. Enter correlation levels 1, 2 or 3 as defined as*

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

1.5.2 Justification and Rationale of PEO- Department Mission Mapping:

PEO-1	M1	M2	M3
To cultivate individuals with a robust base of expertise and abilities in the realm of computer science and engineering, ensuring they graduate well-equipped for the field	3	3	2
<p>M1: PEO-1 has high correlation with Mission 1 as the Mission focuses on quality teaching learning processes to acquire engineering knowledge of the graduates.</p> <p>M2: PEO-1 has high correlation with Mission 2 as the Mission focuses on teaching and research through the collaborative activities.</p> <p>M3: PEO-1 has Moderate correlation with Mission 3 as fostering computer science and engineering graduate's adept in problem solving and teamwork, while instilling a commitment to lifelong learning and societal ethics.</p>			

Table 1.5.2.a: PEO-1 Justification with Department Mission key elements

PEO2	M1	M2	M3
To analyze existing frameworks and contemporary trends in a specialized manner, and devise inventive solutions that align with the evolving landscape of computer engineering through higher studies.	3	3	2
<p>M1: PEO-2 has high correlation with Mission 1 as the Mission focuses the graduates as industry ready professional with contemporary trends.</p> <p>M2: PEO-2 has high correlation with Mission 2 as the Mission focuses more on experiential teaching and research through collaborative activities and it caters them for real time industrial requirements.</p> <p>M3: PEO-2 has moderate correlation with Mission 3 as the Mission focuses on vital, state-of-the-art research facilities to provide students and faculty with social ethics.</p>			

Table 1.5.2.b: PEO-2 Justification with Department Mission key elements

PEO3	M1	M2	M3
To generate the capability for leadership and teamwork, analytical thinking for handling crucial issues, and rigid ethical principles for responsible professionals.	1	1	3
<p>M1: PEO-3 has low correlation with Mission 1 as the mission focuses low on quality teaching learning processes to acquire engineering knowledge.</p> <p>M2: PEO-3 has low correlation with Mission 2 as the demonstrate leadership & entrepreneurial skills are related to teaching and research through collaborative activities.</p> <p>M3: PEO-3 has high correlation with Mission 3 the Mission focuses on vital, state-of-the-art research facilities to provide students and faculty.</p>			

Table 1.5.2.c: PEO-3 Justification with Department Mission key elements

Criterion 2	Program curriculum and teaching-learning processes	120/120
--------------------	---	----------------

2. Program Curriculum and Teaching-Learning Processes

2.1. Program Curriculum (20/20)

- Viswam Engineering College is affiliated to Jawaharlal Nehru Technological University, Anantapuramu.
- The University curriculum structures are as follows
 1. Department of Computer Science and Engineering offers UG course of B. Tech.
 2. It started with an intake of 60 students in the year 2006 and enhanced to 120 in 2013

R20 REGULATIONS

S.NO	Basic Courses	Category	No of subjects
1	Foundation Courses	Humanities & Sciences (H & S)	5
		Basic Sciences (BS)	9
		Engineering Sciences (ES)	8
		Library Congress (LC)	2
2	Professional Core Subjects	Professional Core Subjects (PC)	21
		Project Work (PW)	1
3	Professional Elective	Professional Elective Subjects	15

	Subjects	(PE)	
4	Open Elective subjects	Open Elective Subjects (OES)	9
5	Humanities Elective subjects	Humanities Elective subjects (HES)	3
6	Mandatory Course	Mandatory Course (MC)	4
7	Skill oriented course	Skill oriented course (SC)	5
8	Total	Total	82

The curriculum contributes various courses for different Academic Years (A.Y) are shown in tables below.

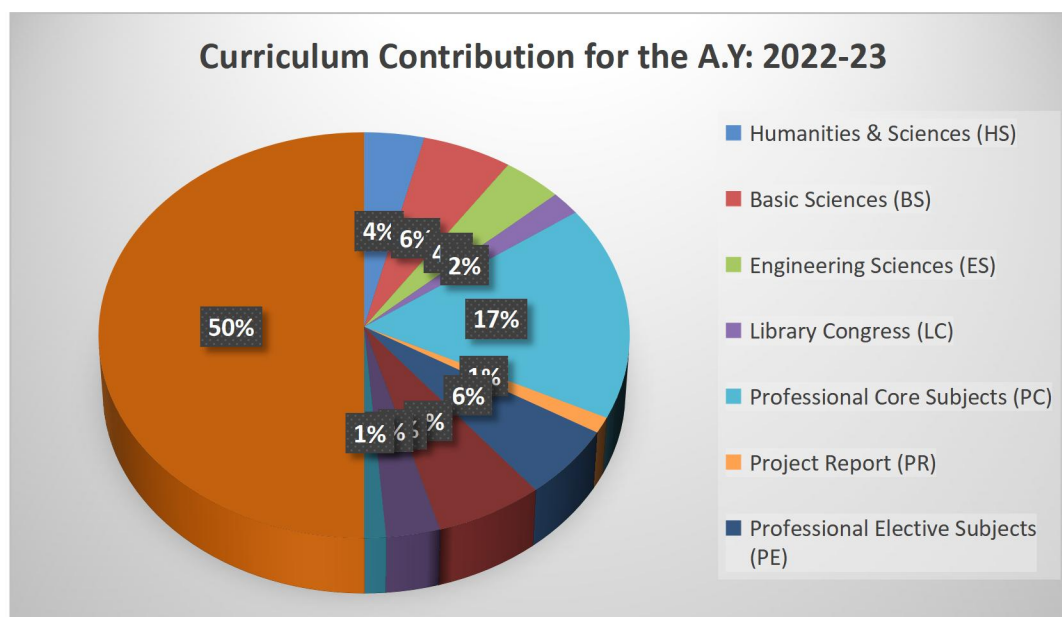


Fig. 2.1.a. Curriculum Contribution for the A.Y: 2022-23

Scheme of Instruction**B.Tech (COMPUTER SCIENCE & ENGINEERING)-R20**

Semester - 1 (Theory - 5, Lab - 4)					
S.No	Course No	Course Name	Category	L-T-P	Credits
1.	20A54101	Linear Algebra and Calculus	BS	3-0-0	3
2.	20A51101T	Chemistry	BS	3-0-0	3
3.	20A05201T	C-Programming & Data Structures	ES	3-0-0	3
4.	20A02101T	Basic Electrical & Electronics Engineering	ES	3-0-0	3
5.	20A03202	Engineering Workshop	LC	0-0-3	1.5
6.	20A05202	IT Workshop	LC	0-0-3	1.5
7.	20A51101P	Chemistry Lab	BS	0-0-3	1.5
8.	20A05201P	C-Programming & Data Structures Lab	ES	0-0-3	1.5
9.	20A02101P	Basic Electrical & Electronics Engineering Lab	ES	0-0-2	1.5
Total					19.5
Semester - 2 (Theory - 5, Lab - 5)					

S.No	Course No	Course Name	Category	L-T-P/D	Credits
1.	20A54202	Probability & Statistics	BS	3-0-0	3
2.	20A56201T	Applied Physics	BS	3-0-0	3
3.	20A52101T	Communicative English	H&S	3-0-0	3
4.	20A05101T	Python Programming & Data Science	ES	3-0-0	3
5.	20A03101T	Engineering Drawing	ES	1-0-0/2	2
6.	20A03101P	Engineering Graphics Lab	ES	0-0-2	1
7.	20A52101P	Communicative English Lab	H&S	0-0-3	1.5
8.	20A56201P	Applied Physics Lab	BS	0-0-3	1.5
9.	20A05101P	Python Programming & Data Science Lab	ES	0-0-3	1.5
10	20A52201	Universal Human Values	MC	3-0-0	0.0
	Total				19.5

Semester-III							
S. No	Course Code	Course Name	Category	L	T	P	Credits
1.	20A54304	Discrete Mathematics & Graph Theory	BS	3	0	0	3
2.	20A04304T	Digital Electronics& Microprocessors	ES	3	0	0	3
3.	20A05301T	Advanced Data Structures & Algorithms	PC	3	0	0	3
4.	20A05302T	Object Oriented Programming Through Java	PC	3	0	0	3
5.	20A05303	Computer Organization	PC	3	0	0	3
6.	20A04304P	Digital Electronics& Microprocessors Lab	ES	0	0	3	1.5
7.	20A05301P	Advanced Data Structures and Algorithms Lab	PC	0	0	3	1.5
8.	20A05302P	Object Oriented Programming Through Java Lab	PC	0	0	3	1.5
9.	20A05304	Skill Oriented Course – I Web application Development	SC	1	0	2	2

10	20A99201	Mandatory noncredit course - II Environmental Science	MC	3	0	0	0
Total							21.5

Semester-IV							
S.No	Course Code	Course Name	Category	L	T	P	Credits
1.	20A54404	Deterministic & Stochastic Statistical Methods	BS	3	0	0	3
2.	20A05401T	Database Management Systems	PC	3	0	0	3
3.	20A05402T	Operating Systems	PC	3	0	0	3
4.	20A05403T	Software Engineering	PC	3	0	0	3
5.	20A52301	Humanities Elective- I Managerial Economics & Financial Analysis	HS	3	0	0	3
	20A52302	Organizational Behaviour					
	20A52303	Business Environment					
6.	20A05401P	Database Management Systems Lab	PC	0	0	3	1.5

7.	20A05402P	Operating Systems Lab	PC	0	0	3	1.5
8.	20A05403P	Software Engineering Lab	PC	0	0	3	1.5
9.	20A05404	Skill Oriented Course- II Exploratory Data Analysis with R	SC	1	0	2	2
10.	20A99401	Mandatory noncredit course - III Design Thinking for Innovation	MC	2	1	0	0
11.	20A99301	NSS/NCC/NSO Activities	MC	0	0	2	0
Total							21.5
Community Service Internship/Project (Mandatory) for 6 weeks duration during summer vacation							

Semester-V						
S.No.	Course Code	Course Name	L	T	P	Credits
1.	20A05501 T	Computer Networks	3	0	0	3
2.	20A05502 T	Artificial Intelligence	3	0	0	3

3.	20A05503	Formal Languages and Automata Theory	3	0	0	3
4.	20A05504 a 20A04702 b 20A05504 c	Professional Elective Course – I Software Project Management Digital Image Processing Big Data Technologies	3	0	0	3
5.		Open Elective Course – I	3	0	0	3
6.	20A05501 P	Computer Networks Lab	0	0	3	1.5
7.	20A05502 P	Artificial Intelligence Lab	0	0	3	1.5
8.	20A05506	Skill oriented course – III Advanced Web Application Development	1	0	2	2
9.	20A05507	Evaluation of Community Service Project				1.5
Total						21.5

Open Elective-I

S.No.	Course Code	Course Name	Offered by the Dept.
1	20A01505	Building Technology	CE
2	20A02505	Electric Vehicles	EEE
3	20A03505	3D Printing Technology	ME
4	20A04507	MATLAB Programming for Engineers	ECE/EEE
5	20A04508	Introduction to Control Systems	ECE/EEE
6	20A27505	Computer Applications in Food Processing	FT
7	20A54501	Optimization Techniques	Mathematics
8	20A56501	Materials Characterization Techniques	Physics
9	20A51501	Chemistry of Energy Materials	Chemistry

Semester-VI						
S.No	Course Code	Course Name	L	T	P	Credits
1.	20A05601T	Compiler Design	3	0	0	3
2.	20A05602T	Machine Learning	3	0	0	3

3.	20A05603T	Internet of Things	3	0	0	3
4.	20A05604a 20A05604b 20A05604c	Professional Elective Course- II Software Testing Advanced Computer Architecture Computer Vision	3	0	0	3
5.		Open Elective Course - II	3	0	0	3
6.	20A05601P	Compiler Design Lab	0	0	3	1.5
7.	20A05602P	Machine Learning Lab	0	0	3	1.5
8.	20A05603P	Internet of Things Lab	0	0	3	1.5
9.	20A52401	Skill oriented course - IV Soft Skills	1	0	2	2
10.	20A99601	Mandatory Non-credit Course Intellectual Property Rights & Patents	2	0	0	0
Total						21.5
Industry Internship (Mandatory) for 6 – 8 weeks duration during summer vacation						

Open Elective-II

S. No	Course Code	Course Name	Offered by the Dept.
1	20A01605	Environmental Economics	CE
2	20A02605	Smart Electric Grid	EEE
3	20A03605	Introduction to Robotics	ME
4	20A04605	Signal Processing	ECE
5	20A04606	Basic VLSI Design	ECE
6	20A27605	Food Refrigeration and Cold Chain Management	FT
7	20A54701	Wavelet Transforms & its applications	Mathematics
8	20A56701	Physics Of Electronic Materials and Devices	Physics
9	20A51701	Chemistry of Polymers and its Applications	Chemistry

Semester-VII						
S. No.	Course Code	Course Name	L	T	P	Credits
1.		Professional Elective Course- III				
	20A05701a	Cloud Computing	3	0	0	3
	20A05701b	Agile Methodologies				
	20A05701c	Vehicular Adhoc Networks				
2.	20A05702a	Professional Elective Course- IV				
	20A05702b	Fundamentals of AR/VR	3	0	0	3
	20A05702c	Cryptography & Network Security				
		Natural Language Processing				
3.	20A05703a	Professional Elective Course- V				
	20A05703b	Full Stack Development	3	0	0	3
	20A05703c	Block chain Technology and Applications				
		Deep Learning				
4.	20A52701a	Humanities Elective - II				
	20A52701b	Entrepreneurship and Incubation Management	3	0	0	3
	20A52701c	Science				
		Enterprise Resource Planning				
5.		Open Elective Course - III	3	0	0	3

6.		Open Elective Course – IV	3	0	0	3
7.	20A05706	Skill oriented course – V Mobile Application Development	1	0	2	2
8.	20A05707	Evaluation of Industry Internship				3
Total						23

Open Elective-III

S.No	Course Code	Course Name	Offered by the Dept.
1	20A01704	Cost Effective Housing Techniques	CE
2	20A02704	IOT Applications in Electrical Engineering	EEE
3	20A03704	Product Design & Development	ME
4	20A04704	Electronic Sensors	ECE
5	20A04506	Principles of Communication Systems	ECE
6	20A27704	Human Nutrition	FT
7	20A54702	Numerical Methods for Engineers	Mathematics
8	20A56702	Sensors And Actuators for Engineering Applications	Physics
9	20A51702	Chemistry of Nanomaterials and Applications	Chemistry

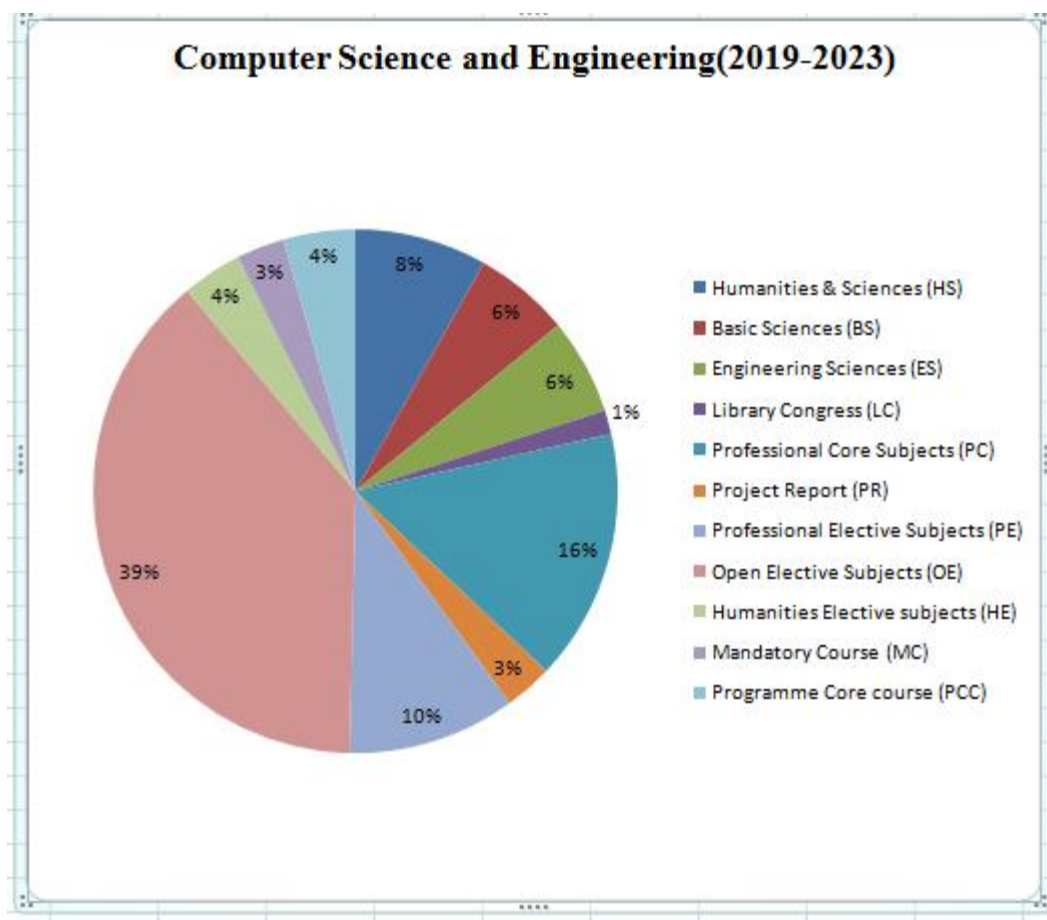
Open Elective-IV

S.No.	Course Code	Course Name	Offered by the Dept.				
1	20A01705	Health, Safety & Environmental Management	CE				
2	20A02705	Renewable Energy Systems	EEE				
3	20A03705	Introduction to Composite Materials	ME				
4	20A04705	Microcontrollers and Applications	ECE				
5	20A04706	Principles of Cellular & Mobile Communications	ECE				
6	20A27705	Waste and Effluent Management	FT				
7	20A54703	Number theory & its applications	Mathematics				
8	20A56703	Smart Materials and Devices	Physics				
9	20A51703	Green Chemistry and Catalysis for Sustainable Environment	Chemistry				
Semester-VIII							
S. Nos	Course Code	Course Name	Category	L	T	P	Credits
1.	20A05801	Full Internship & Project work	PR	-	-	-	12
Total							12

R19 REGULATIONS

S.NO	Basic Courses	Category	
1	Foundation Courses	Humanities & Sciences (HS)	11
		Basic Sciences (BS)	8
		Engineering Sciences (ES)	8
		Library Congress (LC)	2
2	Professional Core Subjects	Professional Core Subjects (PC)	21
		Project Report (PR)	4
3	Professional Elective Subjects	Professional Elective Subjects (PE)	14
4	Open Elective subjects	Open Elective Subjects (OE)	52
5	Humanities Elective subjects	Humanities Elective subjects (HE)	5
6	Mandatory Course	Mandatory Course (MC)	4
7	Programme Oriented course	Programme Core course (PCC)	6
8	Total	Total	135

The curriculum contributes various courses for different Academic Years (A.Y) are shown in tables below.



Curriculum contribution for the A.Y: 2019-2023

B.Tech. – Semester– I-I(R19)

Semester - 1 (Theory - 3, Lab - 4)					
S.No	Course No	Course Name	Category	L-T-P	Credits
1.	19A54101	Algebra and Calculus	BS	3-1-0	4
2.	19A51102T	Chemistry	BS	3-0-0	3
3.	19A05101T	Problem Solving & Programming	ES	3-1-0	4
4.	19A03102	Engineering Graphics Lab	ES	1-0-4	3
5.	19A03101	Engineering Workshop	LC	0-0-2	1
6.	19A51102P	Chemistry Lab	BS	0-0-3	1.5
7.	19A05101P	Problem Solving & Programming Lab	ES	0-0-3	1.5
Total					18

B.Tech. – Semester– I-II(R19)

Semester - 2 (Theory - 4, Lab - 5)					
S. No	Course No	Course Name	Category	L-T-P	Credits
1.	19A02201T	Basic Electrical & Electronics Engineering	ES	3-0-0	3
2.	19A54201	Differential Calculus Equations and Vector	BS	3-1-0	4
3.	19A51101T	Engineering Chemistry	BS	3-0-0	3
4.	19A05201T	Data Structures	ES	3-0-0	3
5.	19A01201	Civil Engineering Workshop	LC	0-0-2	1
6.	19A03102	Engineering Graphics Lab	ES	1-0-4	3
7.	19A02201P	Basic Electrical & Electronics Engineering Lab	ES	0-0-3	1.5
8.	19A51101P	Engineering Chemistry Lab	BS	0-0-3	1.5
9.	19A05201P	Data Structures Lab	ES	0-0-3	1.5
Total					21.5

Semester – 3 (Theory - 7, Lab – 3, MC-1)					
S. No	Course No	Course Name	Category	L-T-P	Credits
1.	19A54303	Mathematical Foundations of Computer Science	BS	3-0-0	3
2.	19A05301	Digital Logic Design	PC	3-0-0	3
3.	19A99304	Design Thinking	ES	2-0-0	2
4.	19A05302T	Database Management Systems	PC	3-0-0	3
5.	19A05303T	Object Oriented Programming Through Java	PC	3-0-0	3
6.	19A05304T	Python Programming	PC	2-1-0	3
7.	19A52301	Universal Human Values	HS	2-0-0	2
8.	19A05302P	Database Management Systems Lab	PC	0-0-3	1.5
9.	19A05303P	Object Oriented Programming Through Java Lab	PC	0-0-3	1.5
10.	19A05304P	Python Programming Lab	PC	0-0-3	1.5
11.	19A99301	Environmental Science	MC	3-0-0	0
Total					23.5

Semester - 4 (Theory - 6, Lab – 2, MC-1)					
S.No	Course No	Course Name	Category	L-T-P	Credits
1.	19A54401	Number Theory and Applications	BS	3-0-0	3
2.	19A05401	Computer Organization	PC	3-0-0	3
3.	19A05402T	Design and Analysis of Algorithms	PC	3-0-0	3
4.	19A52401	Entrepreneurship	H&S	3-0-0	3
5.	19A05403T	Operating Systems	PC	3-0-0	3
6.	19A05404T	Software Engineering	PC	3-0-0	3
7.	19A05403P	Operating Systems Lab	PC	0-0-3	1.5
8.	19A05404P	Software Engineering Lab	PC	0-0-3	1.5
9.	19A99302	Biology For Engineers	MC	3-0-0	0
Total					21

Semester – V (Theory - 6, Lab - 3)					
S.No	Course No	Course Name	Category	L-T-P	Credits
1.	19A05501	Formal Languages and Automata Theory	PC	3-0-0	3
2.	19A05502T	Artificial Intelligence	PC	3-0-0	3
3.	19A05503T	Object Oriented Analysis Design & Testing	PC	2-0-0	2
4.	19A05504T	Computer Networks	PCC	3-0-0	3
5.	19A05505a 19A05505b 19A05505c	Professional Elective-I Data warehousing and Data mining Web Technologies Mobile Application Development	PE	3-0-0	3

6.	19A01506a	Open Elective-I Experimental stress analysis. Building Technology	OE	3-0-0	3
	19A01506b	Electrical Engineering Materials			
	19A02506a	Introduction to Hybrid and Electric Vehicles			
	19A03506a	Rapid Prototyping Analog			
	19A03506b	Electronics Digital Electronics			
	19A04506a	Brewing Technology			
	19A04506b	Computer Applications in Food Technology			
	19A27506a	Optimization Techniques			
	19A27506b	Technical Communication and Presentation Skills			
	19A54506a				
	19A52506a				
19A51506a	Chemistry of Energy Materials				
7.	19A05502P	Artificial Intelligence Laboratory	PCC	0-0-3	1.5
8.	19A05504P	Computer Networks Laboratory	PCC	0-0-3	1.5
9.	19A05503T	Object Oriented Analysis Design & Testing Lab	PCC	0-0-2	1.0
10.	19A05507	Socially Relevant Project	PR	-----	0.5
11.	19A99501	Mandatory course: Constitution of India	MC	3-0-0	0
Total					21.5

Semester – VI (Theory - 6, Lab - 2)					
S.No	Course No	Course Name	Category	L-T-P	Credits
1.	19A05601	Cryptography & Network Security	PC	2-1-0	3
2.	19A05602T	Big Data Analytics	PCC	3-0-0	3
3.	19A52601T	English Communication	HS	3-0-0	3
4.	19A05603a	Professional Elective-II (MOOCS)	PE	3-0-0	3
	19A05603b	Compiler Design			
	19A05603c	Introduction to Machine Learning			
	19A05603d	Real Time Systems			
	19A05603e	Advance Computer Architecture Computer Vision			
5.	19A01604a	Open Elective-II	OE	3-0-0	3
	19A01604b	Industrial waste and wastewater management			
	19A02604a	Building Services & Maintenance			
	19A02604b	Industrial Automation			
	19A03604a	System Reliability Concepts			
	19A03604b	Introduction to Mechatronics			
	19A04604a	Optimization techniques through MATLAB			
	19A04604b	Basics of VLSI			
	19A27604a	Principles of Communication			
	19A27604b				

	19A54604a	Systems			
	19A52604a	Food Toxicology			
	19A51604a	Food Plant Equipment Design Wavelet Transforms & its applications Soft Skills Chemistry of Polymers and Its Applications			
6.	19A52602a 19A52602b 19A52602c 19A52602d 19A52602e	Humanities Elective-I Entrepreneurship & Incubation Managerial Economics and Financial Analysis Business Ethics and Corporate Governance Enterprise Resource Planning Supply Chain Management	HE	3-0-0	3
7.	19A05602P	Big Data Analytics Laboratory	PCC	0-0-3	1.5
8.	19A52601P	English Communication lab	HS	0-0-3	1.5
9.	19A05605	Socially Relevant Project	PR	-----	0.5
10.	19A99601	Mandatory Course: Research Methodology	MC	3-0-0	0
11.	19A05606	Comprehensive online examination		-	0
Total					21.5

Semester – VII (Theory - 5, Lab -2)					
S.No	Course No	Course Name	Category	L-T-P	Credits
1.	19A05701T	Internet of Things	PC	2-1-0	3
2.	19A05702T	Software Testing	PC	2-1-0	3
3.	19A05703a 19A05703b 19A05703c	Professional Elective-III Cloud Computing Natural Language Processing Agile Methodologies	PE	3-0-0	3
4.	19A01704a 19A01704b 19A02704a 19A02704b 19A03704a 19A03704b 19A04704a 19A04704b 19A27704a	Open Elective-III Air pollution and control. Basics of civil Engineering Renewable Energy Systems Electric Vehicle Engineering Finite Element methods Product Marketing Introduction to Microcontrollers & Applications	OE	3-0-0	3

	19A27704b	Principles of Digital Signal Processing			
	19A54704a	Corporate Governance in Food Industries Process Technology for Convenience & RTE Foods			
	19A51704a	Numerical Methods for Engineers (ECE, CSE, IT & CE)			
		Chemistry of Nanomaterials and Applications			
5.	19A52701a	Humanities Elective-II Organizational Behavior	HS	3-0-0	3
	19A52701b	Management Science			
	19A52701c	Business Environment			
	19A52701d	Strategic Management			
	19A52701e	E-Business			
6.	19A05702P	Software Testing Lab	PC	0-0-3	1.5
7.	19A05701P	Internet of Things Lab	PC	0-0-3	1.5
8.	19A05705	Industrial Training/Skill Development/Research Project*	PR	-----	2
Total					20

Semester – VIII (Theory - 2)					
S.No	Course No	Course Name	Category	L-T-P	Credits
1.	19A05801a 19A05801b 19A05801c	Professional Elective-IV Dev Ops Deep Learning Adhoc & Sensor Networks	PE	3-0-0	3
2.	19A01802a 19A01802b 19A02802a 19A02802b 19A03802a 19A03802b 19A04802a 19A04802b 19A04802c 19A04802d 19A27802a	Open Elective-IV Disaster Management. Global Warming and climate changes IoT Applications in Electrical Engineering Smart Electric Grid Energy conservation and management Non - destructive testing Introduction to Image Processing Principles of Cellular and Mobile Communications Industrial Electronics Electronic Instrumentation Food Plants Utilities & Services Nutraceuticals & Functional Foods	OE	3-0-0	3

	19A27802b 19A54802a 19A51802a	Mathematical Modeling & Simulation Green Chemistry and Catalysis for Sustainable Environment			
3.	19A05803	Project	PR	-----	7
Total					13

R15 Regulations.

S.NO	Basic Courses	Category	No of Subjects
1	Foundation Courses	Humanities & Sciences (HS)	6
		Basic Sciences (BS)	9
		Engineering Sciences (ES)	6
		Library Congress (LC)	3
2	Professional Core Subjects	Professional Core Subjects (PC)	27
		Project Report (PR)	2
3	Professional Elective Subjects	Professional Elective Subjects (PE)	9
4	Open Elective subjects	Open Elective Subjects (OE)	10
5	Humanities Elective subjects	Humanities Elective subjects (HE)	0

6	Mandatory Course	Mandatory Course (MC)	5
7	Programme Oriented course	Programme Core Course (PCC)	2
8	Total		79

The curriculum contributes various courses for different Academic Years (A.Y) are shown in tables below.

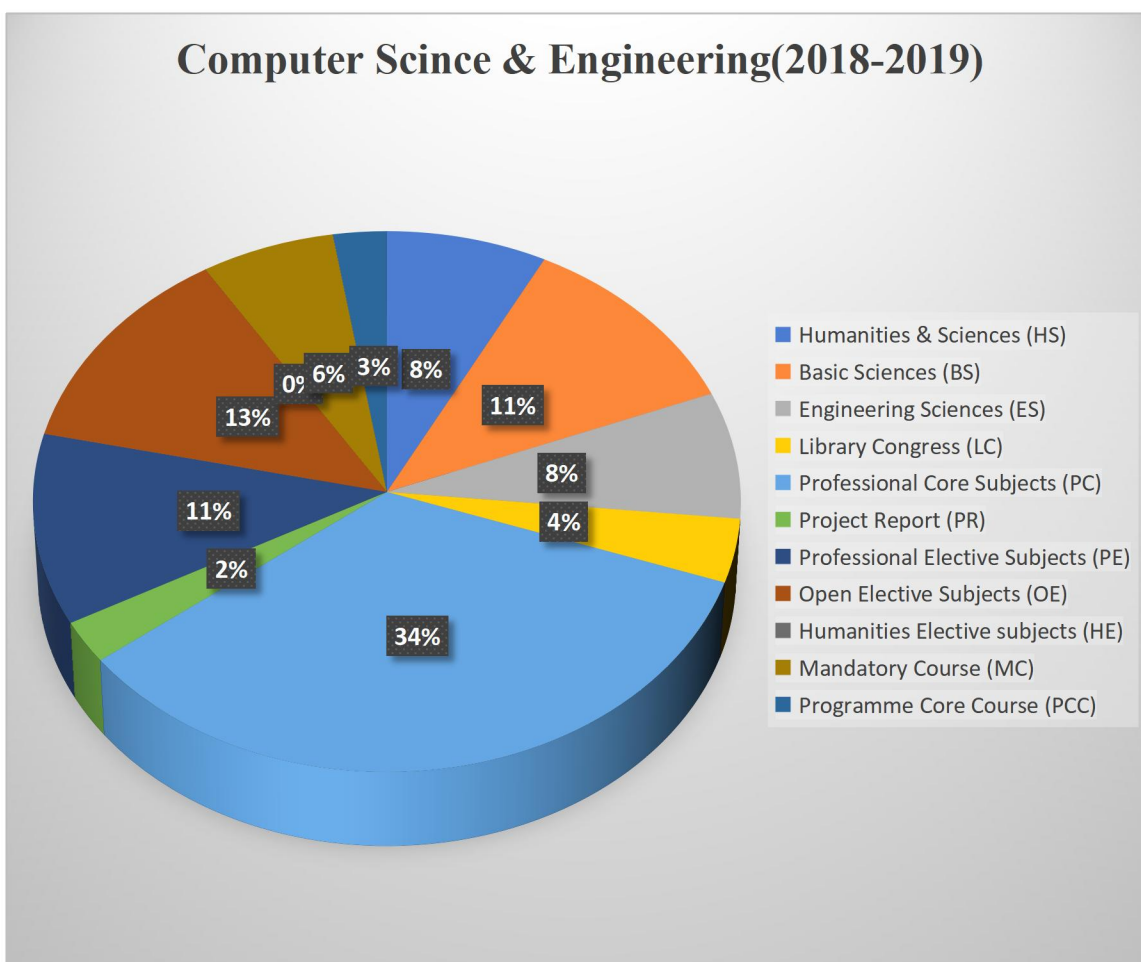


Fig. 2.1.c. Curriculum contribution for the A.Y: 2018-2019

B. TECH I-I SEM

S.No	Course code	Subject	Theory	Tu / Drg / Lab	Credits
1.	15A52101	Functional English	3	1 - -	3
2.	15A54101	Mathematics – I	3	1 - -	3
3.	15A05101	Computer Programming	3	1 - -	3
4.	15A56101	Engineering Physics	3	1 - -	3
5.	15A03101	Engineering Drawing	0	- 6 -	3
6.	15A52102	English Language Communication Skills Lab	-	- - 4	2
7.	15A56102	Engineering Physics Lab	-	- - 4	2
8.	15A05102	Computer Programming Lab	-	- - 4	2
Total					21

B. TECH I-II SEM

S.No	Course code	Subject	Theory	Tu/Drg/Lab	Credits
1.	15A52201	English for Professional Communication	3	1 - -	3
2.	15A54201	Mathematics – II	3	1 - -	3
3.	15A05201	Data Structures	3	1 - -	3
4.	15A51101	Engineering Chemistry	3	1 - -	3
5.	15A01101	Environmental Studies	3	1 - -	3
6.	15A05202	Data Structures Lab	-	- - 4	2
7.	15A51102	Engineering Chemistry Lab	-	- - 4	2
8.	15A99201	Engineering & IT Workshop	-	- - 4	2
9.	15A52201	English for Professional Communication	3	1 - -	3
			15	5 - 12	12

B. TECH II-I SEM

S. No.	Course Code	Subject	L	Tu	La b	C
1	15A54301	Mathematics III	3	1	-	3
2	15A05301	Database Management Systems	3	1	-	3

3	15A05302	Discrete Mathematics	3	1	-	3
4	15A99301	Basic Electrical and Electronics Engineering	3	1	-	3
5	15A04306	Digital Logic Design	3	1	-	3
6	15A52301	Managerial Economics and Financial Analysis	3	1	-	3
7	15A05303	Database Management Systems Laboratory	-	-	4	2
8	15A99302	Basic Electrical and Electronics Laboratory	-	-	4	2
		Total	18	06	08	22

II B. Tech – II SEM

S. No.	Course Code	Subject	Tu	T	Lab	C
1	15A54401	Probability and Statistics	3	1	-	3
2	15A05401	Software Engineering	3	1	-	3
3	15A05402	Computer Organization	3	1	-	3
4	15A04407	Microprocessors & Interfacing	3	1	-	3
5	15A05403	Object Oriented Programming using Java	3	1	-	3
6	15A05404	Formal Languages and Automata	3	1	-	3

		Theory				
7	15A04408	Microprocessors & Interfacing Laboratory	-	-	4	2
8	15A05405	Java Programming Laboratory	-	-	4	2
9	15A05406	Comprehensive Online Examination-	-	-	-	1
		Total	18	06	08	23

B. Tech III-I Semester (CSE)

S. No.	Course Code	Subject	L	T	P	C
1.	15A05501	Operating Systems	3	1	-	3
2.	15A05502	Computer Networks	3	1	-	3
3.	15A05503	Object Oriented Analysis and Design	3	1	-	3
4.	15A05504	Principles of Programming Languages	3	1	-	3
5.	15A05505	Software Testing	3	1	-	3
6.	15A05506 15A05507 15A05508	MOOCS-I a. Introduction to Big Data b. R Programming c. Introduction to Operations Management	3	1	-	3
7.	15A05509	Object Oriented Analysis and Design &	-	-	4	2

		Software Testing Laboratory				
8.	15A05510	Operating Systems Laboratory	-	-	4	2
9.	15A99501	Social Values & Ethics (Audit Course)	2	-	2	-
Total			20	06	10	22

B. Tech III-II Semester (CSE)

S.No.	Course Code	Subject	L	T	P	C
1.	15A05601	Compiler Design	3	1	-	3
2.	15A05602	Data Warehousing & Mining	3	1	-	3
3.	15A05603	Design Patterns	3	1	-	3
4.	15A05604	Design and Analysis of Algorithms	3	1	-	3
5.	15A05605	Web and Internet Technologies	3	1	-	3
6.	15A05606	CBCC-I	3	1	-	3
	15A05607	a. Artificial Intelligence				
	15A05608	b. Linux Environment System				
	15A01608	c. System Applications & Product (SAP)				
		d. Intellectual Property Rights				
7.	15A05609	Web and Internet Technologies Laboratory	-	-	4	2
8.	15A05610	Data Warehousing & Mining	-	-	4	2

		Laboratory				
9.	15A52602	Advanced English Language Communication Skills (AELCS) Laboratory) (Audit Course)	-	-	2	-
10.	15A05611	Comprehensive Online Examination-II	-	-	-	1
Total:			18	06	10	23

B.Tech IV-I Semester (CSE)

S.No.	Course Code	Subject	L	T	P	C
1.	15A52601	Management Science	3	1	-	3
2.	15A05701	Grid & Cloud Computing	3	1	-	3
3.	15A05702	Information Security	3	1	-	3
4.	15A05703	Mobile Application Development	3	1	-	3
5.	15A05704	CBCC-II	3	1	-	3
	15A05705	a. Software Architecture				
	15A05706	b. Computer Graphics				
		c. Machine Learning				
6.	15A05707	CBCC-III	3	1	-	3
	15A05708	a. Software Project Management				
	15A05709	b. Distributed Systems				

		c. Real Time Systems				
7.	15A05710	Grid & Cloud Computing Laboratory	-	-	4	2
8.	15A05711	Mobile Application Development Laboratory	-	-	4	2
Total:			18	06	08	22

B. Tech IV-II Semester (CSE)

S.No.	Course Code	Subject	L	T	P	C
1.	15A05801	MOOCS-II	3	1	-	3
	15A05802	a. Data Analytics				
	15A05803	b. Mobile Computing c. Innovations and IT Management				
2.	15A05804	MOOCS-III	3	1	-	3
	15A05805	a. Building Large Scale Software Systems				
	15A05806	b. Enabling Technologies for Data Science Analytics: IoT c. Cyber Security				
3.	15A05807	Comprehensive Viva-Voce	-	-	4	2
4.	15A05808	Technical Seminar	-	-	4	2
5.	15A05809	Project Work	-	-	24	12
Total:			6	2	32	22

2.1.1. State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific outcomes as mentioned in Annexure-I Also mention the identified curricular gaps if any (10/10)

*(State the process details; also mention identified curricular gaps). **Note:** In case all POs are being demonstrably met through University Curriculum then 2.1.2 will not be applicable and the weight age of 2.1.1 will be 20.*

A-Process used to identify the extent of compliance of the University Curriculum for attaining POs& PSOs (6/6)

- CO-PO mapping identifies the curriculum gap and the feedback receives from stakeholders on the curriculum gap.
- The Semester to BOS, semester to JNTUA in a letter.
- Identified Gaps are analyzed by DAC followed by CAC based on which gaps are filled by conducting workshops, seminars and guest lectures on add on topics which include content beyond syllabus.
- This analysis helps to fulfil the gap between Institution and Industry.

List of Program Outcomes:

PO1	Engineering Knowledge: Apply the knowledge of mathematical science, Engineering fundamentals and engineering specialization to the solution of Electrical and electronics engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature and analyze complex electrical and electronics engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

PO3	Design/development of solutions: - Design solutions for complex electrical and electronics engineering problems and design system components or process that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.
PO4	Conduct investigations of Complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: - Create select and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex electrical and electronics engineering activities with an understanding of the limitations.
PO6	The Engineer and society: - Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional electrical and electronics engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and

	responsibilities and norms of the electrical and electronics engineering practice.
PO9	Individual and team work: Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	Communication: - Communicate effectively on complex engineering activities with the engineering community and with society at large. such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.
PO11	Project Management and finance: - Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work. as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life -Long learning: - Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Table 2.1.1 a. Program Outcomes

PSO1	Apply standard Software Engineering practices and strategies in real time software project development using open-source programming environment or commercial environment to deliver quality product for the organization success.
PSO2	Design and develop computer programs/computer-based systems in the areas related to algorithms, networking, web design, cloud computing, IoT and data analytics of varying complexity.
PSO3	Acquaint with the contemporary trends in industrial/ research settings and there by innovate novel solutions to existing problems.

Table 2.1.1 b. Program Specific Outcomes

With reference to university curriculum, all the subjects are mapped with twelve Program Outcomes and two Program Specific Outcomes. The percentage compliance of subjects with all the POs individually has been tabulated below:

Program level course POs/PSOs Mapping

Regulation: R20

Course Code	Subject Name	PO 1	P O 2	P O 3	P O 4	P O 5	P O 6	P O 7	P O 8	P O 9	PO 10	PO 11	PO 12	PS O1	PS O2	PS O3
20A54101	Linear Algebra and Calculus	1.4	1.4													
20A51101T	Chemistry	1	2													
20A05201T	C-Programming & Data Structures	2.3	1.3	1.3	1	2										
20A02101T	Basic Electrical & Electronics Engineering	2.4	2.2	2	2								2			
20A03202	Engineering Workshop	3	2.67	2.3	1.67	2.5	2	1		1.5		3	2.25	2.6	2.4	2
20A05202	IT Workshop	3	2.7	2.3	1.7	2.5	2	1		1.5		3	2.3	2.6	2.4	
20A51101P	Chemistry Lab	1	2													
20A05201P	C-Programming & Data Structures Lab	2	1	0.83	0.5	0.6	0.3			0.3	0.3	0.3				
20A02101P	Basic Electrical &	2.4	2.	2	2								2			

	Electronics Engineering Lab		2													
20A54202	Probability & Statistics	1.2	1.6													
20A56201T	Applied Physics	1.6	1.8	0.3	0.6		0.3	0.5								
20A52101T	Communicative English										2.4	3	1	2.6	2	
20A05101T	Python Programming & Data Science	2	1.5	1.25	0.75	1	0.5			0.5	0.5	0.5	0.75			
20A03101T	Engineering Drawing	3	3	3	3											
20A03101P	Engineering Graphics Lab	2.4	2	2	2											
20A52101P	Communicative English Lab									1.4	3					
20A56201P	Applied Physics Lab	1	2													
20A05101P	Python Programming & Data Science Lab	2.4	1.2	1.2	0.8						0.2		2.2	2	2	
20A52201a	Universal Human Values						1.2	1.2	1.2				0.6			
20A54304	Discrete Mathematics	3	2	1	1				1				1			

	& Graph Theory															
20A04304T	Digital Electronics& Microprocessors	2.2	2	2	2. 2								1.8	2	1.6	
20A05301T	Advanced Data Structures & Algorithms	1.5	0. 5		0. 7											
20A05302T	Object Oriented Programming Through Java	3.0	2. 0	2. 3		2. 7							2.7	2.7		
20A05303	Computer Organization	3	2	1	1				1		1			1	1	1
20A04304P	Digital Electronics& Microprocessors Lab	3	3	3	3				1	1	1			1	1	1
20A05301P	Advanced Data Structures and Algorithms Lab	2.7	2. 1	2. 2								1.8	1.4 5	1.8		
20A05302P	Object Oriented Programming Through Java Lab	3.0	2. 0	2. 3		2. 7							2.7	2.7		
20A05304	Skill Oriented Course – I	3	2	1	2				1	1	1	1	1	1	2	1

	Web application Development															
20A99201	Mandatory noncredit course - II Environmental Science	3	2	1	1		1	1	1		1		1			
20A54404	Deterministic & Stochastic Statistical Methods	2	2	1	1											
20A05401T	Database Management Systems	2.2	1.6	1.4	0.4	0.2	0.4			0.2	0.4		0.2			
20A05402T	Operating Systems	3	2.4	2	2	1	1					1.2	1	2.4	2.4	1
20A05403T	Software Engineering	1.6	1.6	2.2	0.6	1.6				0.4	0.4	0.4	0.4			
20A52302	Organizational Behavior						0.8	0.8	2.3	1	0.8	0.3	0.8			
20A05401P	Database Management System lab	2.2	1	1.2		2.2	0.4					0.4		2.4	2.4	2
20A05402P	Operating System lab	3	2	2	2	1	1					1.2	1	2.4	2.4	2

			4													
20A05403P	Software Engineering Lab	0.8	1	0.4	0.6					0.4	0.2	1.4			0.8	
20A05404	Skill Oriented Course- II Exploratory Data Analysis with R	1.4	1.2	1.5	1.8						1.2		1		1.6	
20A99401	Mandatory noncredit course - III Design Thinking for Innovation	3	2.67	2.5	2.25	2	2	2						2		
20A99301	NSS/NCC/NSO Activities		2	2.2		2	2.2	2	2	2.3	2	2	2	2.3	3	1
20A05501T	Computer Networks	2.6	1.5	1.3	0.5					1.3	1.3	1.83				
20A05502T	Artificial Intelligence	2	1.6	1.2						0.6	0.2					
20A05503	Formal Languages and Automata Theory	2.2	2	1.2	1.2									1.4	0.2	
20A05504a	Software Project	3	2	3	3	1		1	1	1	1	1	1			

	Management															
20A04507	MATLAB Programming for Engineers	2	2										2.2	1.8	2	
20A05501P	Computer Networks Lab	1.6	0. 2	1. 4		0. 4						1		1.4	0.4	
20A05502P	Artificial Intelligence Lab	2.4	2. 2	2. 1		2. 4							1	1.8	1	
20A05506	Skill oriented course - III Advanced Web Application Development	1.5	0. 3	1			2							2.6		
20A05507	Evaluation of Community Service Project	2	2. 2	-	2	2. 2	2	2	2. 3	2	2	2	2.3	3	2	1
20A05601T	Compiler Design	3	2	1	2				1		1	1	1	1	1	
20A05602T	Machine Learning	1.3	2. 6	2	2	2								1	2	2
20A05603T	Internet of Things	1.7 5	1. 75	1. 5	0. 5					1			0.5			

20A05604a	Software Testing	2.4	2.6	2.6	2.5	2	2	2				3	2.4	2.4	2.6	
20A04606	Basic VLSI Design	2.3	2.2	2									1.6	2.2		
20A05601P	Compiler Design Lab	2.6	2.5	2	2.4								1.8	2.1	2.4	
20A05602P	Machine Learning Lab	2.8	2.4	2.5		2.5	2.1							2.4	2.5	
20A05603P	Internet of Things Lab	3	2.75	2.2	2.2	2	2	2	2	2		2	2	2.6	3	
20A52401	Skill oriented course - IV Soft Skills	2.2	-	2	-	-	-	-	2.2	1.6	-	2	-	2.2	2.2	
20A99601	Mandatory Non-credit Course Intellectual Property Rights & Patents	-	2.2	-	2	-	-	-	-	2.2	1.6	-	2	-	2.2	2
20A05701a	Cloud Computing	2.4	2	1.8		2.4	1.8					2.2	1.8	2		
20A05702c	Natural Language Processing	2.2	2.4	1.2	1.4	2.2										

20A05703c	Deep Learning	2.6	2.8	2.4		2.2							2.4	2.1	2.1	2
20A52701b	Management Science	3	2	1	1				1							
20A04506	Principles of Communication Systems	2	2													
20A04706	Principles of Cellular & Mobile Communications	2	2.2	2										1.8	1.6	
20A05706	Skill oriented course - V Mobile Application Development	1.6	1.4	1.2												
20A05707	Evaluation of Industry Internship	-	2	2.2	-	2	2.2	2	2	2.3	2	2	2	2.3	3	1
20A05801	PROJECT WORK	2.33	1.6	1.6	1.5	1.75	1	1	1.5	2.33	2.83	2.83	1.67	2	1.5	
	Average Attainment	2.25	1.92	1.73	1.55	1.80	1.37	1.39	1.47	1.27	1.15	1.54	1.54	2.01	1.91	2.875
	% Of Attainment	75.0	64.0	57.8	51.6	60.1	45.8	46.4	49.0	42.4	38.5	51.2	51.3	66.9	63.8	95.83

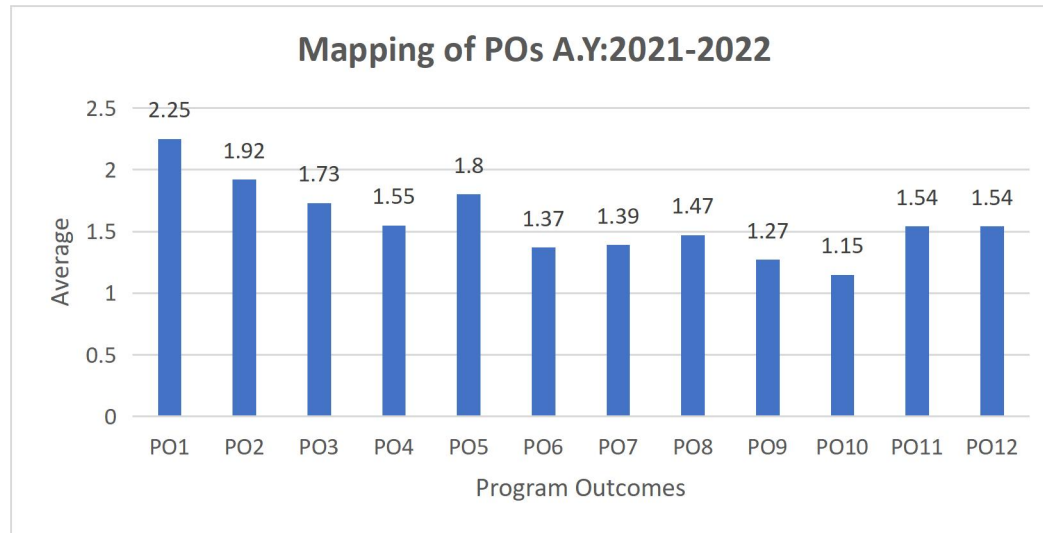


Fig 2.1.1 a: Program level course POs mapping for R20

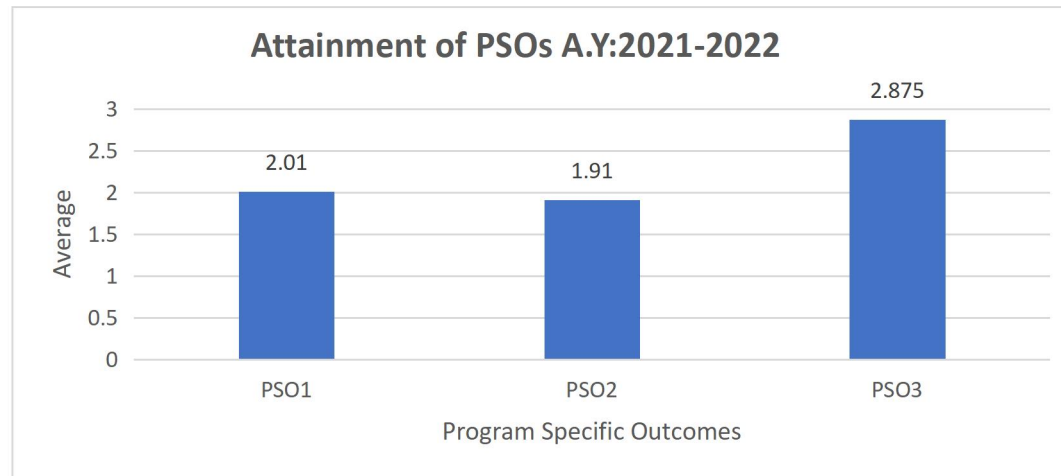


Fig 2.1.1 b: Program level course PSOs mapping for R20

Program level course POs/PSOs Mapping

Regulation: R19

Course Code	Subject Name	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PS O2	PS O3
19A54101	Algebra and Calculus	1.4	1.4													
19A51102T	Chemistry	1	2													
19A05101T	Problem Solving & Programming	1	2	2	1											
19A03102	Engineering Graphics Lab															
19A03101	Engineering Workshop	3	2.6 7	2.3	1. 67	2. 5	2	1		1. 5		3	2.2 5	2.6	2.4	2.3
19A51102P	Chemistry Lab	1	2													
19A05101P	Problem Solving & Programming Lab	2.8	2.2	2.4												

19A02201T	Basic Electrical & Electronics Engineering	2.4	2.6	2.4	2.1							2	2.0 2	2.4	2.1	2.4
19A54201	Differential Calculus	1.4	1.8													
19A51101T	Engineering Chemistry	1	2													
19A05201T	Data Structures	1.4	1.2	1.6								1.4		2.6	0.6	2.1
19A01201	Civil Engineering Workshop	1.4	1.2 5	1.3								1.5		2.8	0.8	2.3
19A02201P	Basic Electrical & Electronics Engineering Lab	1.6	1.6 2	1.4 5								1.4		1.2	1.5	0.9
19A51101P	Engineering Chemistry Lab	1	2													
19A05201P	Data Structures Lab	1	0.8	1.4	0.4	0.8						1		1.2	0.8	0.9
19A54303	Mathematical	1.8	1.6	1.4												

	Foundations of Computer Science		2													
19A05301	Digital Logic Design	2	2.2	2.2									2	2	0.98	
19A99304	Design Thinking	3	2.67	2.5	2.25	2	2	2					2			
19A05302T	Database Management Systems	2.2	1.4	1.4	1.2								1.2	1.2	0.97	
19A05303T	Object Oriented Programming Through Java	2	1.8	1.6	0.8						1.4		2.6	2	2.1	
19A05304T	Python Programming	1.8	1.6	1.8							1		2.4	1.6	2.1	
19A52301	Universal Human Values						1.2	1.2	1.2				0.6			
19A05302P	Database Management Systems Lab	2.2	1	1.2		2.2	0.4					0.4	2.4	2.4	2.5	

19A05303P	Object Oriented Programming Through Java Lab	1.8	1	0.4	0.4							0.6		0.4	2.2	2.8
19A05304P	Python Programming Lab	2.4	1.2	1.2	0.8							0.2		2.2	2	2.8
19A99301	Environmental Science	3	2	1	1		1	1	1		1		1			
19A54401	Number Theory and Applications	1.5	1.2	1.2	1	0.2										
19A05401	Computer Organization	2.5	2.33	3	2									2.09	2.21	2.0
19A05402T	Design and Analysis of Algorithms	0.8	2.8	1.2	1	1							0.4	2.4	0.9	0.9
19A52401	Entrepreneurship	1.8	1.6	1.4		1								2.8	1.5	
19A05403T	Operating Systems	3	2.4	2	2	1	1					1.2	1	2.4	2.4	2.2
19A05404T	Software Engineering	0.8	1.5	1.4								1.6		1	1.2	1.4

19A05403P	Operating Systems Lab	3	2.4	2	2	1	1					1.2	1	2.4	2.4	2.0
19A05404P	Software Engineering Lab	0.8	1	0.4	0.6					0.4	0.2	1.4			0.8	
19A99302	Biology For Engineers	-	2	-	-	-	-	2	-	-	-	-	2	-	-	
19A05501	Formal Languages and Automata Theory	2.2	2	1.2	1.2									1.4	0.2	0.4
19A05502T	Artificial Intelligence	2	2.2	1.8	1.8	2	1					1.4	2	2.6	2.6	2.2
19A05503T	Object Oriented Analysis Design & Testing	0.8		1.4	0.4	0.2						1.4		1	1	1
19A05504T	Computer Networks	3.2	1.8	1.2	2.2	1.2	0.2						2	0.6	0.6	0.8
19A05505a	Professional Elective-I Data warehousing and Data mining	3	2	2	3				1		2	1		2	1	1

19A52506a	Technical Communication and Presentation Skills								1	0. 3		0.3	0.3			
19A05502P	Artificial Intelligence Laboratory	2.2	2.8	3	2	2						2	2			
19A05504P	Computer Networks Laboratory	1.6	0.2	1.4		0. 4						1		1.4	0.4	0.2
19A05503T	Object Oriented Analysis Design & Testing Lab	1.6	1.8	1.4	1. 4					1. 2		1	1.4		1.4	1.2
19A05507	Socially Relevant Project	-	2	2.2	-	2	2. 2	2	2	2. 3	2	2	2	2.3	3	2
19A99501	Mandatory course: Constitution of India						2. 4	1. 4	1. 4				1.8			
19A05601	Cryptography & Network Security	1.7 5	1.5	1.7 5	2	1						1.5		2	1	1
19A05602T	Big Data Analytics	2	2	1.2	1	2						1		2	2	1

19A52601T	English Communication												1			
19A05603a	Compiler Design	3	2	1	2				1		1	1	1	1	1	1
19A01604a	Industrial waste and wastewater management	2	2					2. 3	2	2			2			
19A52602b	Managerial Economics and Financial Analysis	3	3	2	2				1							
19A05602P	Big Data Analytics Laboratory	2	1	1.6	1	2						1		2	1.2	2
19A52601P	English Communication lab												1			
19A05605	Socially Relevant Project	2	2.2		2	2. 2	2	2	2. 3	2	2	2	-	2.5	2	2
19A99601	Mandatory Course: Research Methodology	2.2	2	1.7 5	1. 8	1. 5	1	1	1	1	1	1	1	1	1	1
19A05606	Comprehensive online examination	2.4	2.2	2.4	2	2. 5	2	2	-	2. 4	2.4	2.5	2.5	2.5	2.6	2.6

19A05701T	Internet of Things	1.7 5	1.7 5	1.5	0. 5					1			0.5			
19A05702T	Software Testing	2.4	2.6	2.6	2. 5	2	2	2				3	2.4	2.4	2.6	2.6
19A05703a	Cloud Computing	3	2	2.2	1. 2	1. 75			1	2	1.2 5	2	2	1.8	2	2
19A01704a	Air pollution and control.			2								1	1			
19A52701b	Management Science	3	2	1	1				1							
19A05702P	Software Testing Lab	3	2.2	2.5	2. 6	3						3	2.2	2.8	2.8	2.4
19A05701P	Internet of Things Lab	3	2.7 5	2.2	2. 2	2	2	2	2	2		2	2	2.6	3	2
19A05705	Industrial Training/Skill Development/Research Project*	2	2	2	2	2	2. 3	2. 3	2. 5	2. 4	2.6	2	2	1.7	1.7	1.5

19A05801a	Dev Ops	3	2	2.2	1									1.6	1.3	1.2
19A01802b	Global Warming and climate changes		2					2					2			
	Average Attainment	2.0	1.9	1.7	1.5	1.6	1.5	1.7	1.4	1.6	1.5	1.5	1.5	1.95	1.64	1.66
	% of Attainment	68	63	57	50	53	50	58	48	53	52	49	51	65.24	54.80	55.34

Table B.2.1.1.4 Program level course CO-PO/PSO Mapping Matrix for AY 2021-2022

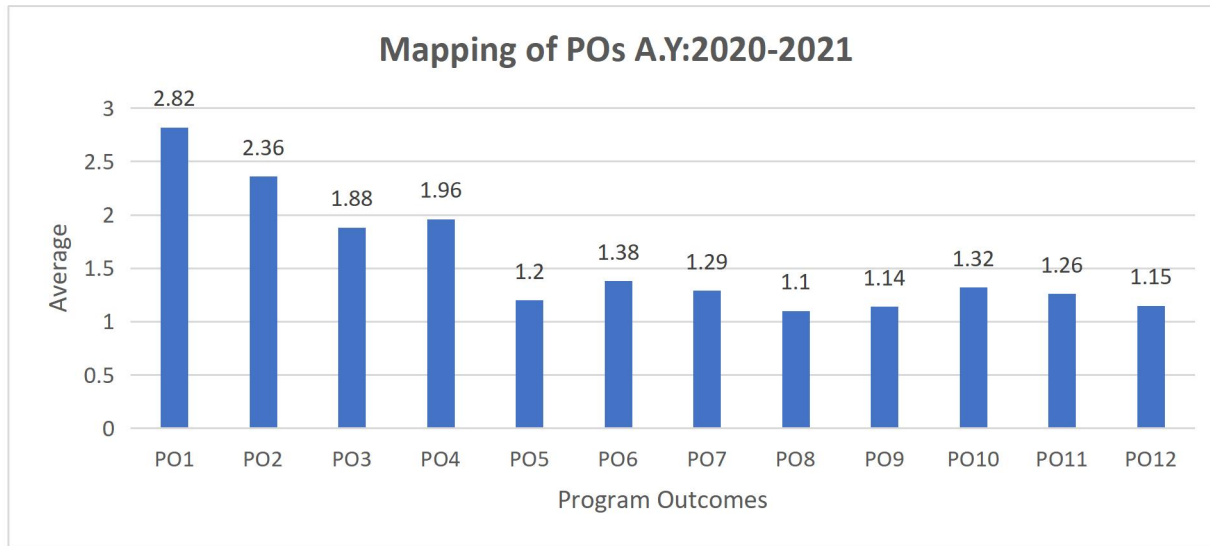


Fig 2.1.1 a: Program level course POs mapping for R19

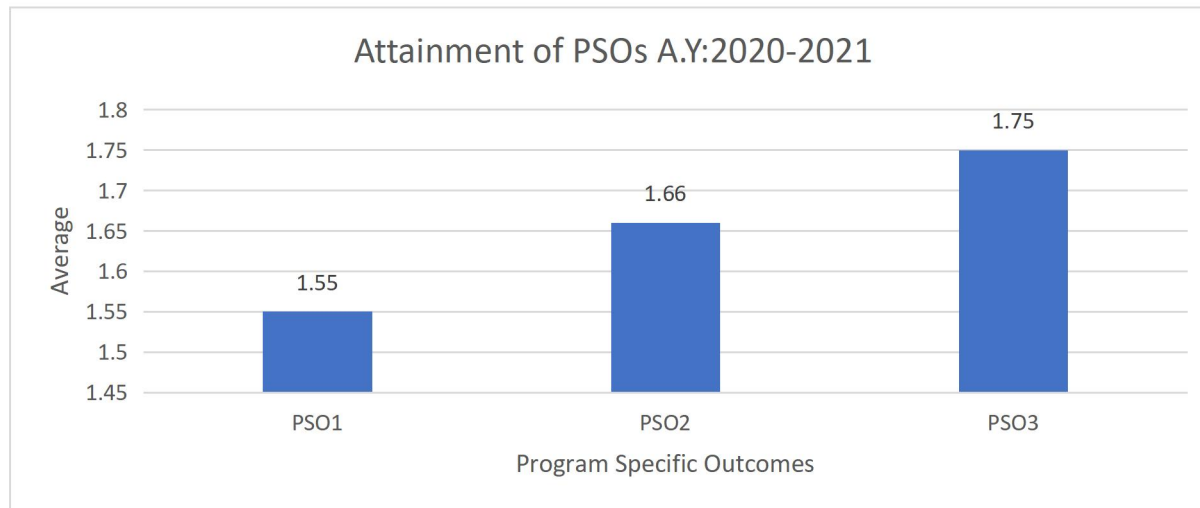


Fig 2.1.1 b: Program level course PSOs mapping for R19

Program level course POs/PSOs Mapping

Regulation: R15

Course Code	Subject Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO 11	PO 12	PS O1	PSO 2	PSO 3
15A52101	Functional English	2		1					1	1	3		1			
15A54101	Mathematics – I	3	3	2	2				1				1			
15A05101	Computer Programming	3	2	2	2				1					1	3	1
15A56101	Engineering Physics	3	2	1	1		1	1					1			
15A03101	Engineering Drawing	3	3	3	3											
15A52102	English Language Communication Skills Lab	2		1					1	1	3		1			

15A56102	Engineering Physics Lab	3	3	3	2				1	1	1		1			
15A05102	Computer Programming Lab	3	3	3	3	1			1	1	1	1	1	2	3	2
15A52201	English for Professional Communication	2		1					1	1	3		1			
15A54201	Mathematics – II	3	2	1	2		1	1	1				2			
15A05201	Data Structures	3	2	2	2				1				1	1	2	1
15A51101	Engineering Chemistry	3	2	1	1											
15A01101	Environmental Studies	3	2	1	1		1	1	1		1		1			
15A05202	Data Structures Lab	3	3	3	3	1			1	1	1		1	2	3	2
15A51102	Engineering	3	3	2	3			1	1	1	1		2			

	Chemistry Lab															
15A99201	Engineering & IT Workshop	2	3	2	2			3	3			2	3	3	2	
15A54301	Mathematics III	3	2	1	1			1				1				
15A05301	Database Management Systems	3	2	2	2		1	1	1	1	1	1	1	2	1	
15A05302	Discrete Mathematics	3	2	1	1			1				1				
15A99301	Basic Electrical and Electronics Engineering	3	3	2	2			1		1		1	2	1	1	
15A04306	Digital Logic Design	3	3	2	1											
15A52301	Managerial Economics and Financial	3	3	2	2			1								

	Analysis															
15A05303	Database Management Systems Laboratory	3	3	2	2				1	1	1	1	1	2	1	1
15A99302	Basic Electrical and Electronics Laboratory	3	3	2	2				1	1	1		1	1	2	2
15A54401	Probability and Statistics	3	3	2	2				1	1	1	1				
15A05401	Software Engineering	3	2	1	1				1	1	1	1	1	1	2	2
15A05402	Computer Organization	3	2	1	1				1		1			1	1	1
15A04407	Microprocessors & Interfacing	3	2	1	1											
15A05403	Object Oriented	3	2	3	2		1		1				1	1	2	1

	Programming using Java															
15A05404	Formal Languages and Automata Theory	3	3	2	2				1					1	1	1
15A04408	Microprocessors & Interfacing Laboratory	3	3	3	3				1	1	1			1	1	1
15A05405	Java Programming Laboratory	3	2	2	2				1					2	1	1
15A05406	Comprehensive Online Examination-I	3	3	3	3											
15A05501	Operating Systems	3	2	2	2				1	1	1		1	1	2	2
15A05502	Computer Networks	3	1	2	3	1			1	1	1	1	1	1	2	1

15A05503	Object Oriented Analysis and Design	3	2	1	1				1	1	1	1	1	2	1	1
15A05504	Principles of Programming Languages	3	2	2	2				1					2	1	1
15A05505	Software Testing	3	2	2	2				1		1	1	1	1	2	2
15A05506	Introduction to Big Data	3	3	2	2	1			1	1	1	1	1	2	1	1
15A05509	Object Oriented Analysis and Design & Software Testing Laboratory	3	2	2	2				1	1	1	1	1	2	2	2
15A05510	Operating Systems Laboratory	3	3	3	3				1		1		1	2	2	2

15A99501	Social Values & Ethics (Audit Course)	3	2	3	3				1		1	1	1			
15A05601	Compiler Design	3	2	1	2				1		1	1	1	1	1	1
15A05602	Data Warehousing & Mining	3	2	2	3				1		2	1		2	1	1
15A05603	Design Patterns	3	2	2	2				1	1	1	1	1	2	1	1
15A05604	Design and Analysis of Algorithms	3	2	2	2			1	1	1	1	1	1	1	1	1
15A05605	Web and Internet Technologies	3	2	1	2				1	1	1	1	1	1	2	1
15A01608	Intellectual Property Rights	3	2	1	1			1	1	1	1	1	1	2	1	1
15A05609	Web and Internet Technologies	3	2	1	2				1		2	1	1	1	2	2

	Laboratory																
15A05610	Data Warehousing & Mining Laboratory	2	2	2	2		2		2		2	3	2	1	2	2	
15A52602	Advanced English Language Communication Skills (AELCS) Laboratory) (Audit Course)	3	3	2	2						1	1	1				
15A05611	Comprehensive Online Examination-II	3	3	3	3												
15A52601	Management Science	3	2	1	1				1								
15A05701	Grid & Cloud Computing	3	2	1	2	1			1	1	1	1	1	1	2	1	1

15A05702	Information Security	2.3	2	2.5		1				0.6	0.3		0.6			
15A05703	Mobile Application Development	1	2	2.75	1.75	0.2						2.2	1.5			
15A05704	Software Architecture	3	3	3	3	1			1		1	1	1	2	1	1
15A05707	Software Project Management	2.6	1.3	0.6	0.6	1				3	2.3	2				
15A05710	Grid & Cloud Computing Laboratory	3	2	1	1				1	1	1	1	1	2	2	2
15A05711	Mobile Application Development Laboratory	3	2	1	2				1	1	1	1	1	2	2	2
15A05803	Innovations and	1.3	1.3	1.3	1	1.6				0.6	0.6			2	1	1

	IT Management															
15A05806	Enabling Technologies for Data Science Analytics: IoT	3	3	2	2				1	1	1	1	1	1	1	1
15A05807	Comprehensive Viva-Voce	3	3	3	3											
15A05605	Web and Internet Technologies	1.6	2.8	3	0.4	1.6	0.4		0.2	0.4		1				
15A01608	Intellectual Property Rights		2.2		2					2.2	1.6		2		2.2	2
15A05609	Web and Internet Technologies Laboratory	3	2	1	2				1		2	1	1	1	2	2
15A05610	Data Warehousing & Mining Laboratory	2	2	2	2		2		2		2	3	2	1	2	1

15A05808	Technical Seminar	3	3	3	3					1	2		1		1	1
15A05809	Project Work	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Average Attainment	2.82	2.36	1.88	1.96	1.20	1.38	1.29	1.10	1.14	1.32	1.26	1.15	1.55	1.66	1.75
	% of Attainment	94	79	63	65	40	46	43	37	38	44	42	38	52	55	60.33

Table B.2.1.1.4 Program level course CO-PO/PSO Mapping Matrix for AY 2020-2021

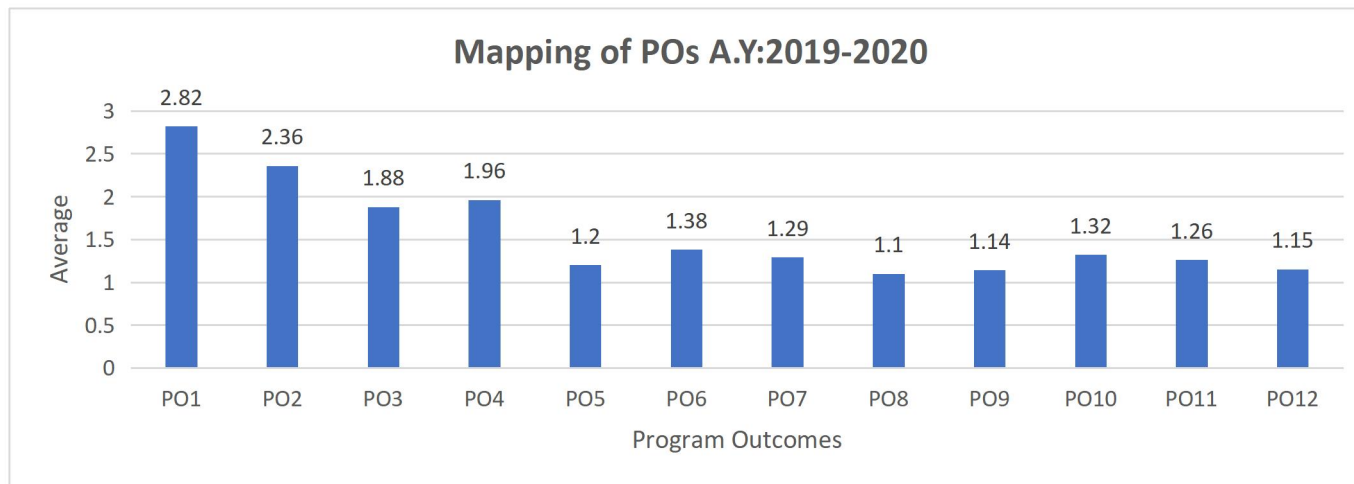


Fig 2.1.1 a: Program level course POs mapping for R15

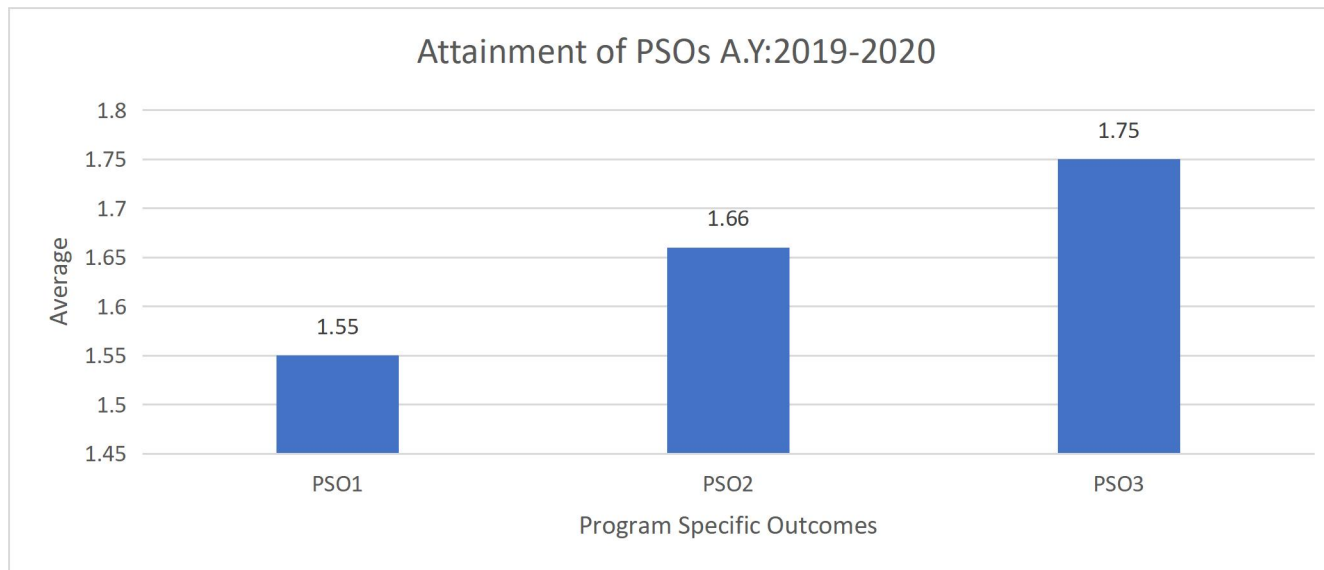


Fig 2.1.1 b: Program level course PSOs mapping for R15

**B. List the curricular gaps for the attainment of defined POs and PSOs
(4Marks)**

Gap Identification Process:

Courses are analyzed for the curriculum gaps using the following process.

- Curriculum Prescribed by JNTUA
- Mapping and validation of Course Outcomes with POs and PSOs.
- Department Advisor Committee (DAC) checks the Gap and forwards to College Advisor Committee (CAC).
- College Advisor Committee (CAC) Recommends/Suggests to the Board of Studies for the inclusion in Curriculum input provided by the faculty handling the Course.
- Feedback from Alumni.
- Feedback from Employer.
- Major Contents Identified the gaps are filled through workshops and guest lectures.

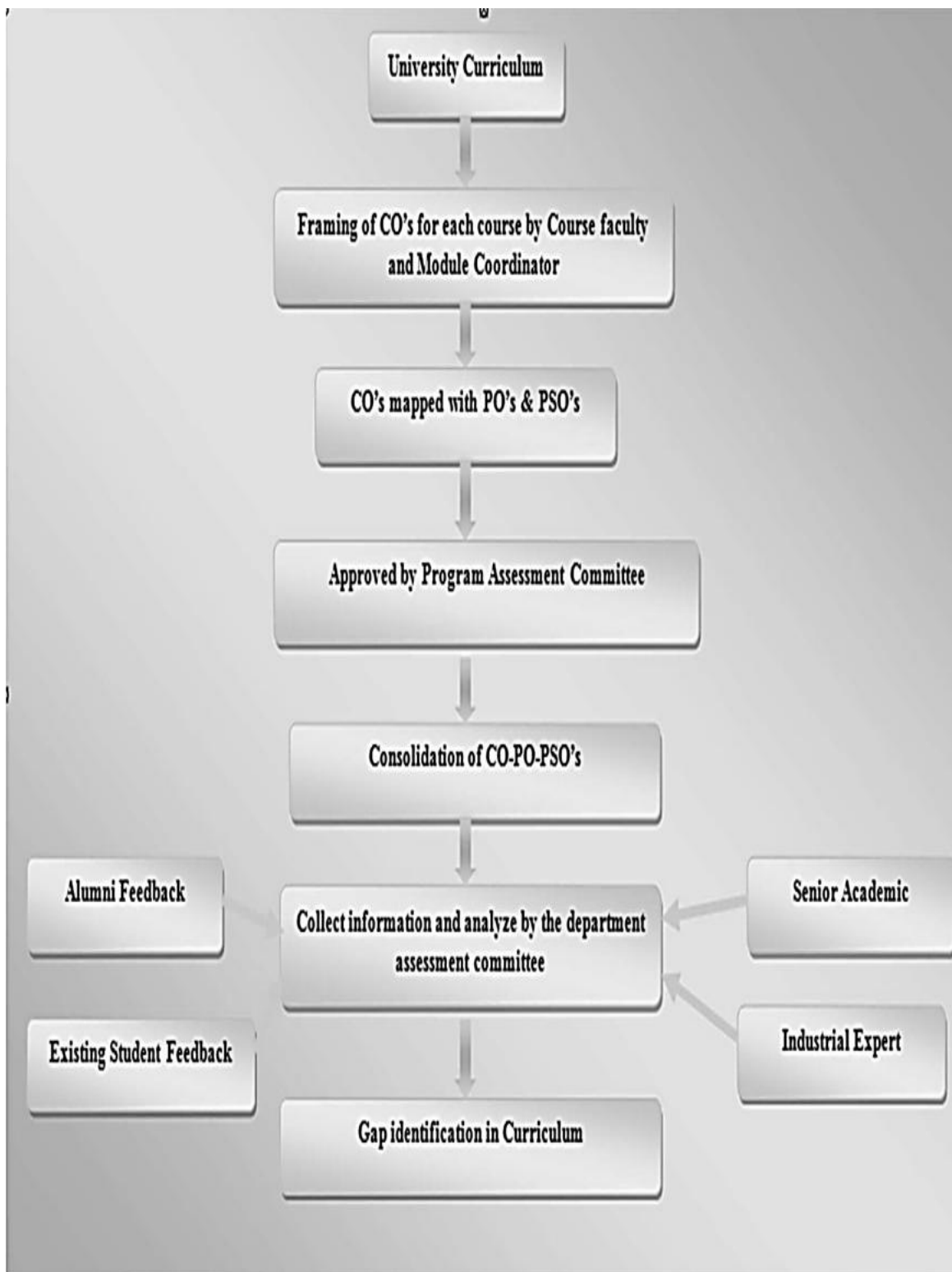


Fig.2.1.1.c: Methodology of Gap analysis

CAY (2022-23)

S.No	Course Name	Gaps Identified (2022-23)
2022-23 Semester-I R20		
1	Computer Networks	Learn how to do complex things in computer networks.
2022-23 Semester-II R20		
1	Operating system	Knowledge of Scheduling Algorithms and Performance

Table2.1.1.f: Gap Identified CAY:2022-23**CAY m1(2021-22)**

S.No	Course Name	Gaps Identified (2021-22)
2021-22 Semester-I R20		
1	Formal Languages and Automata Theory	Knowledge in Grammars
2	Cloud computing	To find out what's next in cloud computing
2021-22 Semester-II R15		
1	Object Oriented Programming through JAVA	In order to acquire knowledge about advanced concepts related to Java
2	Information security	In order to raise awareness about the risks posed by security threats.

Table2.1.1. g: Gap Identified CAY: 2021-22

CAY m2(2020-21)

S.No	Course Name	Gaps Identified (2020-21)
2020-21 Semester-I R19		
1	Data Structures & Algorithms	Advanced C++ training
2	Big Data	Analysis of big data
2020-21 Semester-II R19		
2	PYTHON	Promoting the understanding and knowledge of Python programming
3	Design and Analysis of Algorithms	In order to acquire knowledge about different heap algorithms

Table2.1.1. h: Gap Identified CAY: 2020-21

2.1.2.State the delivery details of the content beyond the syllabus for the attainment of POs & PSOs (10/10)

(Provide details of the additional course/learning material/content/laboratory experiments/projects etc., arising from the gaps identified in 2.1.1 in a tabular form in the format given below)

- The identified gaps in 2.1.1 are discussed and the required curriculum is prepared in consultation with subject experts by Department Advisor Committee (DAC).
- The identified gaps then communicated to the University for necessary actions.

The following are the methods used to identify extent of compliance of the University curriculum for attaining the Program Outcomes are:

- Classroom instructions
- Tutorials
- Remedial Classes
- Presentations (Still and Video)
- NPTEL videos
- Course materials

A. Steps taken to get identified gaps included in the curriculum. (e.g., letter to university/DAC) (2/2)

- Suggestions from faculty members handling courses, feedback from Alumni, Industrial Experts and Academicians from renowned institutions are utilized to frame the activities.
- Suggestions from various bodies are collected and they are forwarded to Department Advisory Committee (DAC) members and valid points are

conveyed to College Advisory Committee (CAC) members to represent them to the university.

- The details of execution of activities to fill the curricular gaps are listed.

B. Delivery details of content beyond syllabus (5/5)

The following activities are undertaken towards the attainment of curricular gap

Course Delivery Methods used in Department	Tutorials
	Hands-on Sessions
	Seminars
	Guest lectures
	Workshops

C. Mapping of content beyond syllabus with the POs& PSOs (3/3)

The identified gap is mapped with the relevant POs and PSOs and the same is executed during CAY, CAY m1, CAYm2 and CAYm3 and is tabulated in 2.1.2.a, 2.1.2.b, 2.1.2. c. and 2.1.2.d

Delivery details of the content beyond the syllabus–CAY: 2022-23

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of Students	Relevance to Pos, PSOs
1	To learn advanced concepts in computer networks	3 day work shop on computer network	15-11-2022 TO 18-11-2022	Mr. Jaffer from AP - TASK	65	PO1, PO2, PO3, PO4, PO5, PSO2
2	Awareness of Scheduling algorithms and performance	3day work shop on operating system	11-04-2022 TO 15-04-2022	Mr. Mruthyunjay from AP - TASK	86	PO1, PO2, PO3, PO4, PO5, PSO1, PSO2

Table B.2.1.2a Delivery details of the content beyond the syllabus

CAY m1(21-22)

S. No	Gap	Action Taken	Date- Month- Year	Resource Person with Designation	% of Stud ents	Relevance to Pos, PSOs
1	Knowledge in Grammars	1 Day Work shop on Grammars	03-10-2021	Mr. Vamshi Reddy AP - TASK	75	PO1, PO2, PO3, PO4, PO5, PSO1 PSO 2
2	“To know the future trends in cloud computing	One day Work shop on Advance in cloud computing	18-10-2021	Mr. A. Kamalakar, COIGN EDU & IT Services, Hyd.	78	PO1, PSO2PO4, PO 5
3	To gain knowledge on advance concepts related to java	A 1-day Work shop on java	12-11-2021	Mr. Shibana & Umar	89	PO1, PO3, PO4, PO5, PO6, PO12 PSO1,PSO2

4	To provide awareness on security threats	One day Workshop on security threats	3-11-2021	Mrs. P. Jahanavi Sudha COIGN EDU & IT Services, Hyd.	75	PO1, PO3, PO4, PO5,PO6,PSO1 PSO 2
---	--	--------------------------------------	-----------	--	----	---

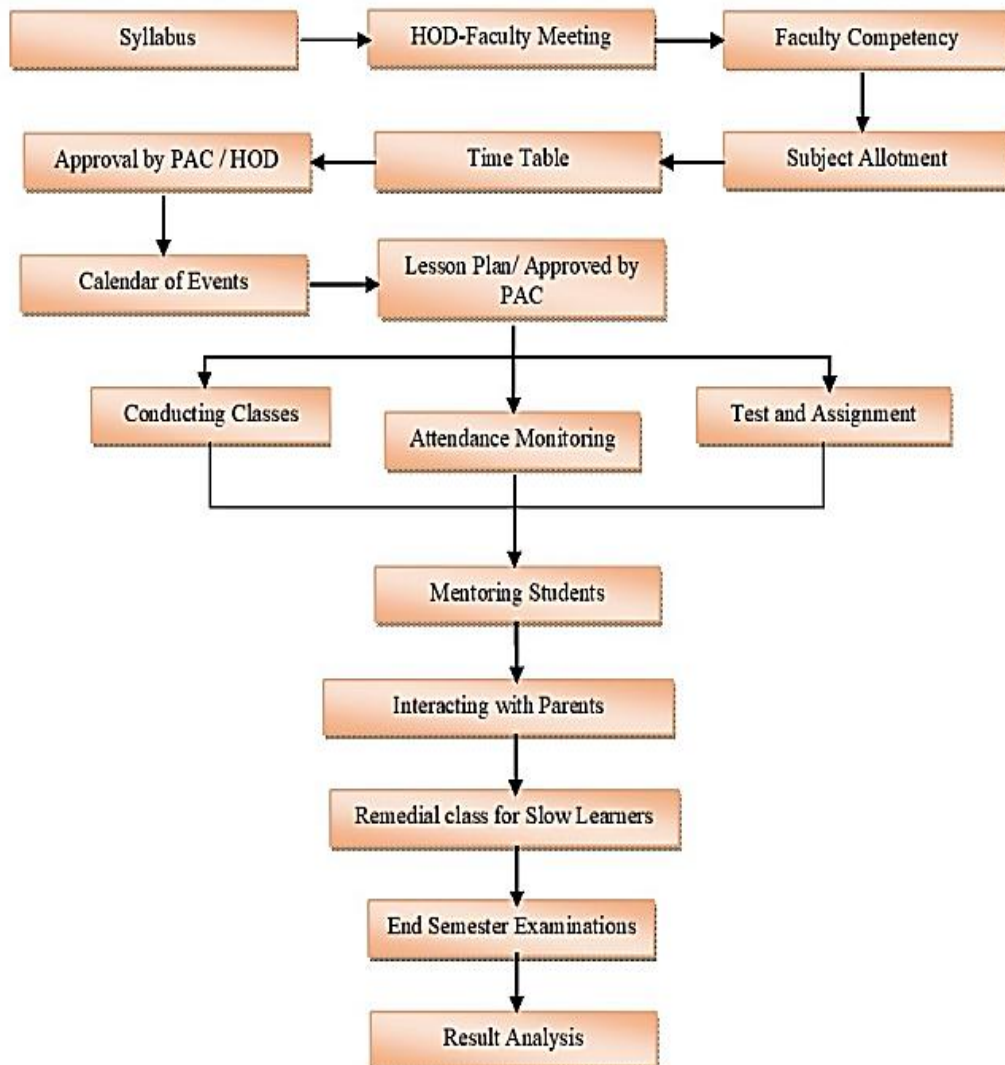
Table B.2.1.2 b Delivery details of the content beyond the syllabus

CAY m2(2020-21)

S. No	Gap	Action Taken	Date- Month- Year	Resource Person with Designation	% Of Student s	Relevance to Pos, PSOs
1	Advanced C++ training	One day Workshop on Advance DS algorithms	06/04/2020- 11/04/2020	Mr. A. Swamy, COIGN Services Pvt. Ltd, Hyd	86	PO1,PO2,PO3, PO4, PO5, PO12, PSO1,PSO2
2	Analysis of big data	Guest Lecture on bigdata	01/03/2020	Mr. Nadeem, Software Engineer- IBM, Banglore	85	PO 1, PO2,PO3, PO 4,PO5,PSO1, PSO2

3	Awareness on python programming language	A 3 Days Work shop on Python	3/08/2020-05/08/2020	Dr. A. Arun Kumar, Professor	76	PO1, PO2, PO3, PO5, PO6 PSO 2
4	To get knowledge on various heap algorithms	Guest Lecture on design algorithms	14/09/2020	A. Purna chander Reddy CJIT- Jangaon	68	PO1, PO2, PO3, PO4, PO5 PSO2

able B.2.1.2c Delivery details of the content beyond the syllabus

2.2 Teaching - Learning Processes (100/100)**2.2.1 Describe processes followed to improve quality of Teaching & Learning (25/25)****Fig. 2.1.1 a Processes to improve quality of teaching and learning**


Initiatives:

- A. Adherence to Academic Calendar
- B. Pedagogical Initiatives:
- C. Methodologies to support weak and encourage bright students
- D. Quality of class room teaching
- E. Conduct of experiments
- F. Continuous Assessment in Laboratory
- G. Students Feedback on Teaching Learning Process

A. Adherence to Academic Calendar:

At the beginning of every academic year the Academic Calendar will be released by the University which is strictly followed by the college. The academic calendar includes Almanac, Internal & external examination schedule, Curricular and co- curricular activities, Seminar schedules, display schedule of attendance, parents meet, display of Internal marks of the next Semester. Academic calendar is also posted in the college website. Based on the university academic calendar, the Department academic calendar will be prepared by including other activities such as unit wise syllabus completion schedule, workshops/seminars/conferences/student training. Classes which were planned for the academic year. Based on the Department academic calendar, lesson plans with course objectives, course outcomes will be prepared by the concerned faculty before the commencement of the semester and is duly approved by the Head of the Department and makes it available to the students. According to the lesson plan, the staff members will cover the syllabus accordingly will be duly monitored by the Head of the Department at regular intervals.

JNTUA Academic Calendar:



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR, ANANTHAPURAMU

ACADEMIC CALENDAR 2022-23

B.Tech IV Year I & II Semesters
(for 2019 admitted batch)


I Semester		
Industrial Training	10.08.2022 to 03.09.2022	(04 Weeks)
I Spell of Instructions:	05.09.2022 to 29.10.2022	(45 Days)
I Mid-term Examinations: (1 st Objective + 1 st descriptive)	31.10.2022 to 02.11.2022	(03 Days)
II Spell of Instructions:	03.11.2022 to 23.12.2022	(45 Days)
II Mid-term Examinations: (2 nd Objective + 2 nd descriptive)	24.12.2022 to 27.12.2022	(03 Days)
End laboratory Examinations:	28.12.2022 to 31.12.2022	(04 Days)
End Theory Examinations:	02.01.2023 to 16.01.2023	(12 Days)
Commencement of Class Work for IV Year B.Tech II semester	23.01.2023 (Monday)	
Declaration of results for IV-I	15.02.2022	

II Semester		
I Spell of Instructions including project work:	23.01.2023 to 09.03.2023	(45 Days)
I Mid-term Examinations: (1 st Objective + 1 st descriptive)	10.03.2023 to 11.03.2023	(02 Days)
II Spell of Instructions including project work:	13.03.2023 to 27.04.2023	(45 Days)
II Mid-term Examinations: (2 nd Objective + 2 nd descriptive)	28.04.2023 to 29.04.2023	(02 Days)
End Theory Examinations:	01.05.2023 to 03.05.2023	(03 Days)
Project work Viva Voce Examinations:	04.05.2023 to 06.05.2023	(03 Days)
Declaration of results for IV-II	15.05.2023	

Note:

- The Mid-term Examinations should be conducted and completed as per the schedule given.
- For slippage of working days due to any unavoidable reasons, compensation can be made by conducting class work on second Saturdays, Sundays and other holidays, except on National Holidays and important festivals.


Date: 08.08.2022



DIRECTOR OF EVALUATION

Fig. 2.1.1 b. JNTUA Academic Calendar

College Academic Calendar:



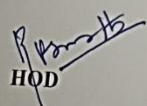
VISWAM ENGINEERING COLLEGE
(Formerly Sir Vishveshwaraiah Institute of Science & Technology)
Madanapalle - 517 325

Department Of Computer Science & Engineering

Date: 02-07-2023

Academic Calendar for Year 2023-24(IV-I Semester)

S.NO	EVENT	DATE
1	Subject Allocation Process	20-08-2023
2	Time Table Preparation	21-08-2023
3	Course file preparation & Verification of Course Outcomes	24-08-2023
4	Commencement of I spell instructions	28-08-2023
5	Display of Course Outcomes in the class rooms	09-09-2023
6	First feedback on Faculties	15-09-2023
7	I- Midterm Question Papers Preparation	16-10-2023
8	Auditing of I- Midterm Question Papers	23-10-2023
9	End of I Spell Instructions	18-10-2023
10	Commencement of I - Midterm Examinations	19-10-2023 to 21-10-2023
11	Commencement of II spell of Instructions	22-10-2023
12	Display of I - Midterm Marks	26-10-2023
13	Mock Interviews	06-11-2023
14	National level Technical FEST (TECHNOPHILIO -2k23)	17-11-2023 to 18-11-2023
15	Guest Lecture on interview Skills	21-11-2023
16	Second Feedback on Faculties	24-11-2023
17	Course End Survey	28-11-2023
18	II- Midterm Question Papers Preparation	02-12-2023
19	Auditing of II- Midterm Question Papers	08-12-2023
20	End of II Spell of Instructions	13-12-2023
21	Commencement of II - Midterm Examinations	14-12-2023 to 16-12-2023
22	Commencement of Practical Examinations	18-12-2023 to 23-12-2023
23	Auditing of II Midterm Mid Marks	17-12-2023
24	Display of II - Midterm & Final Internal Marks	18-12-2023
25	End Examinations	26-12-2023 to 06-01-2024


HOD

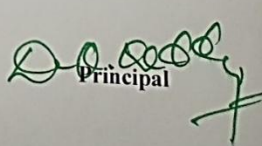

Principal

Fig 2.1.1. c Department Academic Calendar

Date	Topic(s) Covered	No. of Periods
	<u>UNIT - I (18 hrs)</u>	
30/8	Introduction to cloud	1
31/8	Characteristics of cloud computing	1
4/9	cloud Models	1
5/9	" "	1
6/9	cloud Service Example	1
7/9	" "	1
8/9	cloud Based Services & Applications	1
12/9	Virtualization	1
13/9	Load balancing	1
14/9	Scalability & elasticity	1
15/9	Deployment (PPT)	1
16/9	Replication (PPT)	1
20/9	Monitoring, SDAI	1
21/9	NFV	1
22/9	Map Reduce	1
23/9	Identity and Access management, SLA, Billing	1
25/9	cloud Service & Platform	1
26/9	cloud Service & platform	1
27/9	UNIT - II (15 hrs) Apache Hadoop, Hadoop Map-Reduce.	1
30/9	Hadoop Scheduler, Hadoop cluster setup	1
4/10	Reference Architecture for cloud App	1
5/10	cloud Design Methodologies (PPT)	1
6/10	cloud Design Methodologies (PPT)	1
7/10	cloud Component Model	1
8/10	cloud component Model	1
11/10	cloud Component Model	1
12/10	Data storage approaches	1
13/10	Python Basics: Introduction, Installing python	1
14/10	python Data types & amp; ; Data structures.	1
19/10	Control flow, function, modules	1
20/10	packages	1
21/10	File handling, classes.	1
26/10	python for cloud computing - UNIT - III (12 hrs)	1
30/10	python for Amazon web Services	1
31/10	python for Amazon web Services	1
1/11	python for Amazon web Services	1
2/11	python for Google cloud platform	1
3/11	python for Google cloud platform.	1

Signature of the Faculty

HOD

Principal

Fig. 2.1.1. d Sample lesson plan

Sample Time Table



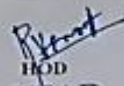

 VISWAM ENGINEERING COLLEGE <i>(Formerly Sri. Viswadevaraoiah Institute of Science & Technology)</i> Madanapalle - 517 325											
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING TIMETABLE ACADEMIC YEAR 2022-23 (ODD SEMESTER)											
SEMESTER : IV - I					BATCH : 2019-2023						
CLASS : IV Year					Hall No : 114						
CLASS INCHARGE : Mrs. V. Hemasree					W.E.F : 05.09.2022						
Day/Time	9:20-10:10	10:10-11:00			11:10-12:00	12:00-12:50			1:40-2:35	2:35-3:30	3:30-4:25
Mon	MS	IoT			CC	ST			AP&C	MS	Library
Tue	ST	CC			IoT	MS			AP&C	CC	DA
Wed	IoT	ST			CC	MS			ST	IoT	Sports
Thu	ST	CC			IoT	AP&C			← Internet of Things Lab →		
Fri	CC	AP&C			IoT	MS			← Software Testing Lab →		
Sat	AP&C	MS			ST	Library			Industrial Training	← DA →	
			19W51A0501 To 19W51A0524			Mrs. Y. Basanthi					
			19W51A0525 To 19W51A0548			Mr. P. Viswanatha Reddy					
			19W51A0549 To 19W51A0572			Mrs. B. Jyothsna					
			19W51A0573 To 19W51A0591 20W55A0501, 502, 503			Mr. A. Srinivasan					
THEORY	SUBCODE	SUBJECT NAME		NAME OF THE FACULTY							
IoT	19A05701T	Internet of Things		Dr. R. Vasanthselvakumar							
ST	19A05702T	Software Testing		Mrs. V. Hemasree							
CC	19A05703a	Cloud Computing		Mr. P. Viswanatha Reddy							
AP&C	19A01704a	Air pollution and control		Mrs. K. Haritha							
MS	19A52701b	Management Science		Mr. Jayakrishna							
DA		Departmental Activities		Mr. D. Ramakanth							
LABS :											
ST Lab	19A05702P	Software Testing Lab		Mrs. V. Hemasree, Mrs. B. Sasikala							
IoT Lab	19A05701P	Internet of Things Lab		Dr. R. Vasanthselvakumar, Mr. M. Veeresh Babu							
IT	19A05706	Industrial Training		Mrs. K. Vijayalakshmi							
			 STAFF INCHARGE			 HOD			 PRINCIPAL		
HEAD Department of CSE Viswam Engineering College i, Madanapalle-517325											
Viswam Engineering College Angallu, Madanapalle-517325.											

Fig 2.1.1. d Sample Time Table

Syllabus

Course: Natural language Processing

Regulation: R20

Year/Sem: IV year, I sem.

UNIT I: Introduction to Natural language The Study of Language, Applications of NLP, Evaluating Language Understanding Systems, Different Levels of Language Analysis, Representations and Understanding, Organization of Natural language Understanding Systems, Linguistic Background: An outline of English Syntax.

Unit II: Grammars and Parsing Grammars and Parsing- Top- Down and Bottom-Up Parsers, Transition Network Grammars, Feature Systems and Augmented Grammars, Morphological Analysis and the Lexicon, Parsing with Features, Augmented Transition Networks, Bayes Rule, Shannon game, Entropy and Cross Entropy.

UNIT III: Grammars for Natural Language Grammars for Natural Language, Movement Phenomenon in Language, Handling questions in Context Free Grammars, Hold Mechanisms in ATNs, Gap Threading, Human Preferences in Parsing, Shift Reduce Parsers, Deterministic Parsers.

UNIT IV: Semantic Interpretation Semantic & Logical form, Word senses & ambiguity, the basic logical form language, Encoding ambiguity in the logical Form, Verbs & States in logical form, Thematic roles, Speech acts & embedded sentences, Defining semantics structure model theory. Language Modeling Introduction, n-Gram Models, Language model Evaluation, Parameter Estimation, Language Model Adaption, Types of Language Models, Language-Specific Modeling Problems, Multilingual and Crosslingual Language Modeling.

UNIT V: Machine Translation Survey: Introduction, Problems of Machine Translation, Is Machine Translation Possible, Brief History, Possible Approaches, Current Status. Anusaraka or Language Accessor: Background, Cutting the Gordian Knot, The Problem, Structure of Anusaraka System, User Interface, Linguistic Area, Giving up Agreement in Anusarsaka Output, Language Bridges. Multilingual Information Retrieval Introduction, Document Preprocessing,

Monolingual Information Retrieval, CLIR, MLIR, Evaluation in Information Retrieval, Tools, Software and Resources. Multilingual Automatic Summarization Introduction, Approaches to Summarization, Evaluation, How to Build a Summarizer, Competitions and Datasets.

TEXT BOOKS:

1. James Allen, Natural Language Understanding, 2nd Edition, 2003, Pearson Education.
2. Multilingual Natural Language Processing Applications: From Theory To Practice Daniel M. Bikel and Imed Zitouni, Pearson Publications.
3. Natural Language Processing, A paninian perspective, Akshar Bharathi, Vineet chaitanya, Prentice –Hall of India

REFERENCES BOOKS:

1. Charniack, Eugene, Statistical Language Learning, MIT Press, 1993.
2. Jurafsky, Dan and Martin, James, Speech and Language Processing, 2nd Edition, Prentice Hall, 2008.

Sample Unit Wise Plan

Course: Natural language Processing

Regulation: R20

Year/Sem: IV year, I sem.

Unit No	Lecture No	Topic	Suggested books	Teaching Methodology
1	1	Introduction to Natural language	NLU, James Allen	Chalk and board
1	2	The Study of Language,	NLU, James Allen	Chalk and board
1	3	Applications of NLP	NLU, James	ppt

			Allen	
1	4	Evaluating Language Understanding Systems	NLU, James Allen	Chalk and board
1	5	Different Levels of Language Analysis	NLU, James Allen	ppt
1	6	Representations and understanding,	NLU, James Allen	Chalk and board
1	7	Organization of Natural language Understanding Systems	NLU, James Allen	Chalk and board
1	8	Linguistic Background	NLU, James Allen	PPT
1	9	An outline of English Syntax.	NLU, James Allen	PPT
1	10	Words, The elements of Simple NP	NLU, James Allen	PPT
1	11	VP, NP, Adjective phrase	NLU, James Allen	Chalk and board
1	12	Adverbial phrase	NLU, James Allen	Chalk and board
2	13	Grammars and Parsing	NLU, James Allen	Chalk and board
2	14	Top-Down	NLU, James Allen	Chalk and board

2	15	Bottom-Up Parsers	NLU, James Allen	Chalk and board
2	16	Transition Network Grammars	NLU, James Allen	ppt
2	17	Feature Systems and Augmented Grammars	NLU, James Allen	Chalk and board
2	18	Morphological Analysis and the Lexicon	NLU, James Allen	ppt
2	19	Parsing with Features	NLU, James Allen	Chalk and board
2	20	Augmented Transition Networks	NLU, James Allen	Chalk and board
2	21	Bayees Rule	NLU, James Allen	PPT
2	22	Shannon game	NLU, James Allen	PPT
2	23	Entropy and Cross Entropy	NLU, James Allen	Chalk and board
3	24	Grammars for Natural Language	NLU, James Allen	Chalk and board
3	25	Grammars for Natural Language(continue)	NLU, James Allen	Chalk and board
3	26	Movement Phenomenon in Language	NLU, James Allen	PPT

3	27	Handling questions in Context Free Grammars	NLU, James Allen	PPT
3	28	Handling questions in Context Free Grammars(continue)	NLU, James Allen	PPT
3	29	Hold Mechanisms in ATNs	NLU, James Allen	Chalk and board
3	30	Gap Threading	NLU, James Allen	Chalk and board
3	31	Human Preferences in Parsing	NLU, James Allen	Chalk and board
3	32	Shift Reduce Parsers	NLU, James Allen	Chalk and board
3	33	Deterministic Parsers	NLU, James Allen	Chalk and board
3	34	Deterministic Parsers(continue)	NLU, James Allen	Chalk and board
4	35	Semantic Interpretation: Semantic & Logical form	NLU, James Allen	Chalk and board
4	36	Word senses & ambiguity	NLU, James Allen	Chalk and board
4	37	The basic logical form language	NLU, James Allen	Chalk and board
4	38	Encoding ambiguity in the logical Form	NLU, James Allen	PPT

4	39	Verbs & States in logical form	NLU, James Allen	PPT
4	40	Thematic roles	NLU, James Allen	PPT
4	41	Speech acts & embedded sentences	NLU, James Allen	Chalk and board
4	42	Defining semantics structure model theory	NLU, James Allen	Chalk and board
4	43	Language Modelling: Introduction	NLU, James Allen	Chalk and board
4	44	n-Gram Models	NLU, James Allen	Chalk and board
4	45	Language model Evaluation	NLU, James Allen	PPT
4	46	Parameter Estimation	NLU, James Allen	PPT
4	47	Language Model Adaption	NLU, James Allen	PPT
4	48	Types of Language Models	NLU, James Allen	Chalk and board
4	49	Language-Specific Modelling Problems	NLU, James Allen	Chalk and board
4	50	Multilingual and Cross lingual Language Modelling	NLU, James Allen	Chalk and board

5	51	Machine Translation: Survey: Introduction	Multilingual Natural Language Processing Applications: From Theory To Practice-Daniel M.Bikel and ImedZitouni	Chalk and board
5	52	Problems of Machine Translation,		Chalk and board
5	53	Is Machine Translation Possible		PPT
5	54	Brief History, Possible Approaches		PPT
5	55	Current Status		PPT
5	56	Anusaraka or Language Accessor: Background		PPT
5	57	Cutting the Gordian Knot	NLU, James Allen	Chalk and board
5	58	The Problem, Structure of Anusaraka System	NLU, James Allen	Chalk and board
5	59	User Interface, Linguistic Area	NLU, James Allen	Chalk and board
5	60	Giving up Agreement in Anusarsaka Output	NLU, James Allen	Chalk and board
5	61	Language Bridges	NLU, James Allen	Chalk and board
5	62	Multilingual Information Retrieval: Introduction,	NLU, James Allen	PPT
5	63	Document Pre-processing	NLU, James	PPT

			Allen	
5	64	Monolingual Information Retrieval	NLU, James Allen	PPT
5	65	CLIR, MLIR, Evaluation in Information Retrieval	NLU, James Allen	PPT
5	66	Tools, Software and Resources.	NLU, James Allen	PPT
5	67	Multilingual Automatic Summarization: Introduction, Approaches to Summarization, Evaluation,	NLU, James Allen	PPT
5	68	How to Build a Summarizer, Competitions and Datasets.	NLU, James Allen	PPT

Fig. 2.1.1.e Sample Lesson Plan



B. Pedagogical Initiatives:**Processes to improve quality of teaching and learning**

S. No	Teaching Method
1.	Chalk and Talk
2.	Charts/ Models
3.	Field Visits
4.	Group Discussions/ Debates
5.	Group Tasks / Assignments
6.	Mini Projects / Case Studies/ Surveys
7.	Guests Lectures
8.	Worksheets
9.	Workshops
10.	Student Seminars
11	Think-Pair-Share
ICT Based Teaching Methods	
12	Google Classroom
13	Certifications/ MOOCs
14	Quiz/ Moodle based Quiz
15	Models/ Prototype Development/ Project Based

	Learning
16	Flipped Classes
17	Video Lectures
18	Virtual Labs
19	PowerPoint Presentation
20	Review Web Literature
21	Software Based Simulation

Table: 2.1.1 Teaching Methods

Department emphasizes the faculty to go beyond the traditional Chalk & Talk methods in order to maximize teaching effectiveness in the fast-changing technologies in engineering. Further, the graduate attributes or the Program Outcomes (POs) are twelve in number and defined for a 4-year undergraduate program in Engineering and Technology, these twelve, only five are domain specific and remaining seven are generic. In order to cover all the POs, appropriate teaching-learning methodology needs to be adopted.

The college once a year conducts a workshop or faculty development program on Teaching Methodologies, in order to equip teachers with innovative and ICT based teaching methods. Therefore, teachers are encouraged to adopt some of the following methods, in their teaching.

A) Teaching methods

1. **Chalk & Talk:** Chalk talk is a monologue presentation and a method of teaching which focuses on the blackboard, where the matter/drawing is represented along with the oral communication by the teacher. It is a time-tested method adopted for many decades in education. However, it limits the student's involvement in learning the subject, due to lack of active application in the class.
2. **Charts/Models:** A chart/model is a good means or aid of teaching. It brings the environment to the process of teaching inside the class indirectly. The purpose is to give life to theoretical learning. It facilitates the process of presentation in class.
3. **Field Visits:** Field trips give opportunities for incorporating out-of-class and real-life experiences into a particular course like CSP. These generate interest and enthusiasm in the student to learn the courses well, when they can link classroom learning to real life applications.
4. **Group discussions/Debates:** Group discussion/debate is a group activity involving the teacher and students to define the problem and seek its solution. It can also be described as a constructive process involving listening, thinking and speaking ability of a student.
5. **Group tasks / Assignments:** Assigning tasks to small groups during class can have many benefits, such as involving students in their own learning, making course topics come to life, deepening students' knowledge and developing teamwork skills.
6. **Mini Projects/Case studies/Surveys:** This is a teaching method in which student's gains knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging, and complex question, problem, or challenge. Case studies/Surveys is an instructional method (not a theory) that refers to assigned scenarios based on situations in which students observe, analyze, record, implement, conclude, summaries, or recommend. Case studies are created and used as a tool for analysis and discussion.

7. **Guest Talks:** A guest talk supports a topic that students may know little about and can offer them a different point of view, one that they may better understand. It gives them the opportunity to learn something new, or learn the same subject with a different point of view.
 8. **Worksheets:** Worksheets refer to a loose sheet of paper with questions or exercises for students to complete and record answers. These are intended to help a student, become proficient in a particular skill that was taught to them in class.
 9. **Workshops:** Workshops are organized to develop the psychomotor aspects of the learner regarding practices of new innovations in area of education. Under this technique, participants have to do some practical work regarding the technologies of their curriculum
 10. **Student seminars:** Engaging students give seminar is an effective teaching method. In general, the seminar method encourages active participation from the participants. The important components of a seminar include preparation of the material to be presented, a session where the information on the assigned topic is shared with the audience and a discussion session leading to deeper understanding of the subject matter. This method involves the student in the learning process.
 11. **Think-Pair-Share:** Assigning the topics to students during the class for which they think and form a group to share their thoughts and will give concluding remarks. Apart from the Chalk & Talk method, most of the methods described above are student centric and increase the student's active involvement in the learning process, rather than passive listening. In addition, college also encourages the use of the modern Information and Communication Technology (ICT) tools to enhance student's learning experience.
- 12. Google classroom:** Google Classroom is a blended learning platform that aims to simplify creating, distributing and grading assignments in a paperless way. Google Classroom is a free application designed to help students and teachers communicate, collaborate, organize and manage assignments in a paperless way.

B) ICT based Teaching methods

1. **Certifications/MOOCs:** A Massive Open Online Course (MOOC) is an open accessible, web- based course designed for large-scale enrolment and instruction. Unlike a blended or flipped course, a MOOC is taught completely online. It is common for MOOCs to offer statements of accomplishment once learners have completed some or all of the learning activities in the course.
2. **Quiz/Moodle based Quiz:** The Quiz activity module allows the teacher to design and build quizzes consisting of a large variety of question types, including multiple choices, true-false and short answer questions. These questions are kept in the Question bank and can be re-used in different quizzes. These quizzes can be conducted online, using various ICT tools or platforms such as Moodle.
3. **Models/Prototype development/Project based learning:** Project Based Learning is a teaching method in which student gains knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging, and complex question, problem, or challenge.
4. **Flipped class:** A flipped classroom is the reverse of more common practice of introducing new content at institution, then assigning homework and projects to be completed by the students independently at home. In this blended learning approach, face-to-face interaction is mixed with independent study—usually via technology. In a common Flipped Classroom scenario, students might watch pre-recorded videos at home, and then come to institution to do the homework armed with questions and at least some background knowledge.
5. **Video lectures:** A video lesson or lecture is a video which presents educational material for a topic which is to be learned. It might be a video of a teacher speaking to the camera, photographs and text about the topic or some mixture of these.
6. **Virtual labs:** The Virtual Laboratory is an interactive environment for creating and conducting simulated experiments: a playground for experimentation. It

consists of domain-dependent simulation programs, experimental units called objects that encompass data files, tools that operate on these objects.

7. **Power Point Presentation:** Power Point can be an effective tool to present material in the class room and encourage student learning. Power Point can be used to project visuals which would otherwise be difficult to bring to class.
8. **Review Web Literature:** Review web literature is a teaching methodology in which Student will prepare a report by reviewing various Journal and e-resources for their assigned topics.
9. **Software based learning/ Simulation:** During the class different software like python are used to increase the understanding level of student.



Fig. 2.1.1. e. Pedagogical Learning (Chalk and Talk)




Fig. 2.1.1. f. Pedagogical Learning (Models/Prototype development/Project based learning)



Fig. 2.1.1.g. Pedagogical Learning (Video lectures:)



Fig. 2.1.1. h. Pedagogical Learning (Practical sessions)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING																							
SUMMARY SHEET TO SHOW USAGE OF VARIOUS TEACHING METHODOLOGIES																							
 VISWAM ENGINEERING COLLEGE (Formerly Sir Vishveshwaraiah Institute of Science & Technology) Madanapalle – 517 325																							
A.Y 2022-2023																							
S.NO	FACULTY NAME	COURSE NAME	CHALK AND TALK	CHARTS	FILLD VISIT	GD	ASSIGNMENTS	MINIPROJECTS	WORKSHOP	WORKSHEETS	THINK PAIR SARE	STUDENT SEMINARS	MOOCs	FLIPPED COURSE	GUEST LECTURES	GOOGLE CLASS ROOMS	PROTOTYPE MODELS	SIMULATION	REVIEW WEB LEACTURE	QUIZ	PPTS	VIDEO LECTURE	VIRTUAL LABS
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Dr. R VASANTH SELVA KUMAR	DEEP LEARNING	S	S		S	S					S			S					S	S		
2	Dr.B LAXMIKANTHA	COMPUTER NETWORKS	S	S	S	S	S	S												S	S	S	S
3	DR J VANITHA VANI	AIRTFICIAL INTELLIGENCE	S	S	S	S	S		S						S					S	S	S	S
4	DR G SANKAR	CLOUD COMPUTING	S	S	S	S	S					S			S					S	S	S	S
5	Dr. G KISHORE KUMAR	MAHCINE LEARNING	S				S	S								S					S	S	
6	Dr.E NAGARJUNA	ADS&A	S	S	S	S	S														S	S	
7	DR G MANIKANTA	COMPUTER ORGANIZATION	S				S					S			S	S				S	S		
8	Dr. V HEMASREE	COMPUTER NETWORKS	S				S	S				S									S	S	
9	Mrs. B JYOTHSNA	JAVA	S	S			S	S												S	S	S	
10	Mr. P VISWANATHA REDDY	ADS&A	S	S	S	S	S	S	S							S							S
11	Mr. A SRINIVASAN	AIRTFICIAL INTELLIGENCE	S				S	S							S					S	S	S	S
12	Mr. D SANJEEVA REDDY	ADS&A	S	S		S	S	S														S	
13	Mrs. B SASIKALA	COMPUTER ORGANIZATION	S				S	S												S	S	S	S
14	Mrs. T SARADA	IT WORKSHOPS	S		S	S	S	S								S					S	S	S

15	Mr.D RAMAKANTH	INTRODUCTION TO PROGRAMMING	S				S	S												S	S	S	S
16	Mrs. I DEEPIKA	JAVA	S	S		S	S	S								S				S	S	S	
17	Mrs. Y BASANTHI	CLOUD COMPUTING	S	S		S									S					S	S	S	
18	Mrs. G S GOWTHAMI KUMARI	AIRTFICIAL INTELLIGENCE	S		S		S					S									S	S	S
19	Mr. C. PRAVALLIKA	COMPUTER ORGANIZATION	S	S		S	S								S					S	S		
20	Mr. M SIVA KUMAR REDDY	NATURAL LANGUAGE PROCESSING	S				S								S					S	S	S	S
21	Mr.K RAMANJULU	MOBILE APPLICATION DEVELOPMENT	S	S	S	S	S					S										S	
22	Mr.K ANJINEYULU	WEB APPLICATION DEVELOPMENT	S				S									S					S	S	
23	Mr. G S ARUN KUMAR	INTRODUCTION TO PROGRAMMING	S				S								S					S	S	S	
24	Mrs. G MADHAVI	INTRODUCTION TO PROGRAMMING	S				S					S				S				S	S		
25	Mrs. K VJAYA LAKSHMI	SOFTWARE PROJECT MANAGEMENT	S				S								S					S	S	S	
26	Mrs. P MUNAVIJAYA LAKSHMI	INTRODUCTION TO PROGRAMMING	S				S									S				S	S	S	
27	Mrs. N ARUNA SANDHYA	UNIVERSAL HUMAN VALUES	S				S													S	S	S	S
28	Mrs. R VASATH KUMARI	INTRODUCTION TO PROGRAMMING	S				S			S						S				S	S	S	S

Fig. 2.1.1. i. Teaching learning Methodologies by faculty

C. Methodologies to support weak and encourage bright students

A self-developed method is adopted in assessing the student learning levels. Stage-wise assessment is done every year to identify the slow learners and advanced learners.

STUDENT ASSESSMENT:

Students learning abilities are identified regularly in every semester by the following measures:

1. **Performance in Internal Examinations (Course Wise):** Students are assessed course wise based on the 1st Internal (Midterm) examination marks. The students with a score of less than 50% are identified as slow learners for that course.
2. **Performance in all courses in the Semester:** Semester wise slow learners students are identified by combined analysis of performance in the first internal exams of all the courses in the semester. Students who are identified as slow learners in three or more subjects will be categorized as semester-wise slow learners.
3. **End Semester Result Wise:** Based on end semester result analysis , students are categorized as slow learners, if a particular student carries more than or equal to 3 backlogs from all the previous years semester examinations.

Guidelines to identify weak students and supporting activities:

S.No.	Identification Criteria	Actions taken
1	Students scoring less than 50% of marks in Mid Examinations	Encouraging them to attend class work regularly. Interacting with parents. Conduction of remedial classes.
2	Diploma students with less basics of Mathematics.	Bridge Course.

Table 2.1.1.h Guidelines to identify weak students and supporting activities

SPECIAL PROGRAMMES:

To enhance the individual student performance special programs are being conducted every year based on the type of program, semester and course. Identified students are provided with different programs as part of student development.

For Advanced learners: Students identified as advanced learners are supported in multiple aspects to enhance their technical and communication skills.

- Students are encouraged to take value added courses on latest software and technologies.
- Advanced learners are encouraged to take internships offered by Central, State, and Private Industries.
- Students are also encouraged to participate in conferences, workshops and seminars conducted by various organizations.
- Topics are assigned to students for doing review ,web literature is provided to enhance their knowledge in research field.

S.No	Identification Criteria	Actions taken
1	Students who score 75% and above in Mid Examinations	<ul style="list-style-type: none"> ✓ Involving them in Industrial projects. ✓ Encouraging them to do self-learning. ✓ Motivate them to attend more Certification Courses of NPTEL and Soft Skill Training Programs. ✓ Motivating students to register for membership of Professional Bodies. ✓ Training for Competitive exams. ✓ Appreciation in the form of cash prize.

2	Students securing highest marks at University Examinations.	Awarded with medals and certificates.
---	---	---------------------------------------

Table 2.2.1. i: Guidelines to identify bright students and supporting activities

For Slow learners:

- Slow learners are provided with remedial classes by subject experts for the core critical courses to overcome their difficulty in a specified course.
- Advanced learners are teamed up with slow learners for sharing thoughts, knowledge, and views. Advanced learners will teach the slow learners.
- Regular counselling of, identified slow learners by mentors in their mentee group helps in boosting the confidence level of a student.

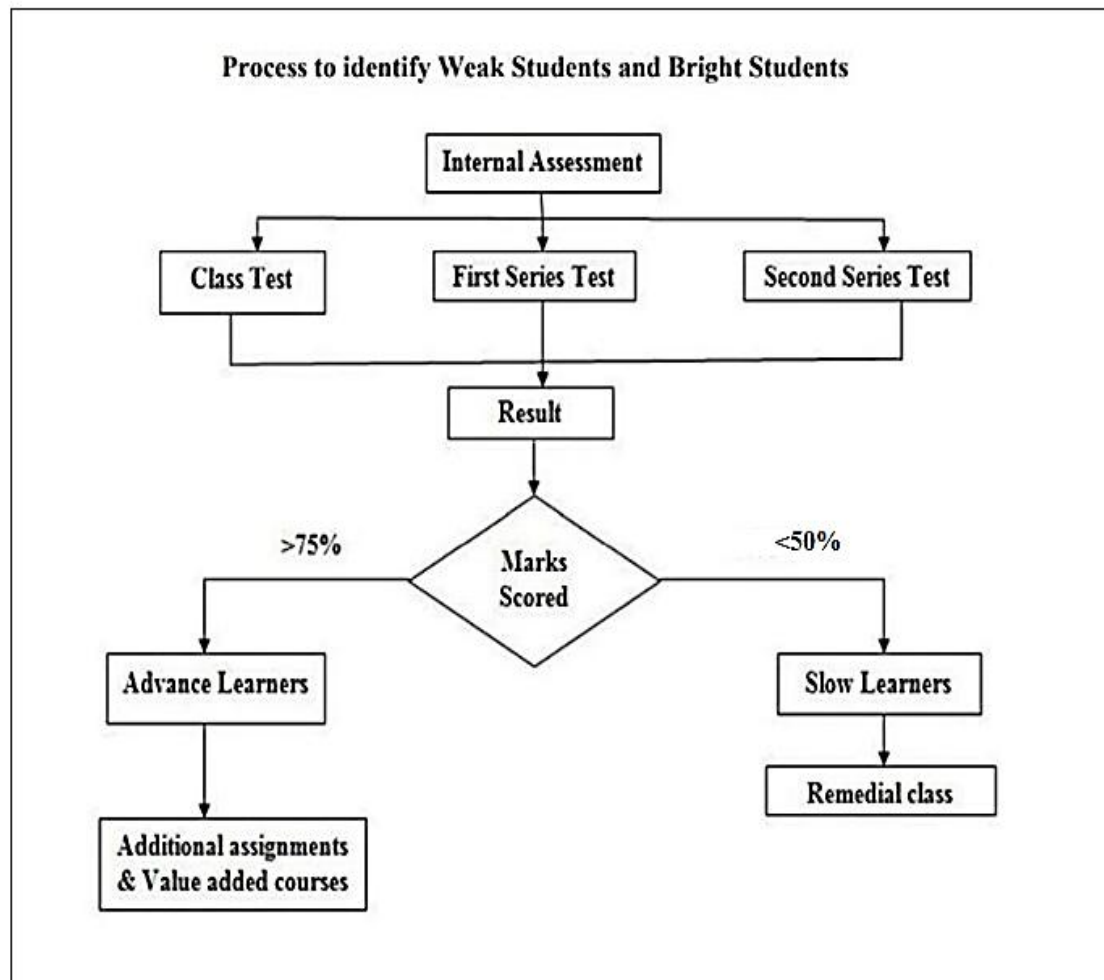



Fig. 2.1.1. j. Process to Identify Weak Students & Bright Students

A Sample Slow and Advanced learners Analysis:


VISWAM ENGINEERING COLLEGE
 (Formerly Sir Vishveshwaraiah Institute of Science & Technology)
 Madanapalle - 517 325
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
 Academic Year:2022-2023(R20 Regulation)

CIRCULAR

5.12.2022

It is proposed to conduct the remedial class for the students those who have scored less than 50% of mark in Mid 1 examination in the course **Advanced Data Structures & Algorithms-20a05301t** from **06.12.2022 to 10.12.2022**. The following students are informed to attend the class without fail. Attendance is mandatory.

Venue: LH 105

S.No	Roll No	Student Name	Time
1.	21W51A0509	Beegam Lakshmesh	4.30 Pm to 5.30Pm
2.	21W51A0512	Boyana Vara Prabas	
3.	21W51A0542	Katari Naga Mounika	
4.	21W51A0548	Kunda Veeranjanyulu	
5.	21W51A0574	Repana Indra Kumar	
6.	21W51A05A3	V Chiranjeevi	

D. Sanjewa Reddy DSR
 Faculty Incharge
 (Name & Signature)

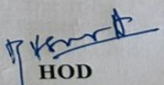

 HOD
 HEAD
 Department of CSE
 Viswam Engineering College
 Angallu, Madanapalle-517325

Fig:2.1.1 k. A Sample Slow and Advanced learners Analysis (Circular)

VISWAM ENGINEERING COLLEGE
 (Formerly Sir Vishveshwaraiah Institute of Science & Technology)
 Madanapalle - 517 325
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year: 2022-2023 (R20 Regulation)
Remedial Class Attendance Sheet
 Course: Advanced Data Structures & Algorithms-20a053011
 Year/Sem: II Year I Semester

Sl.No	Roll No	Student Name	Date: 6/12/22	Date: 7/12/22	Date: 8/12/22	Date: 9/12/22	Date: 10/13/22
1	21W51A0509	Beegam Lakshmesh	P	P	P	P	P
2	21W51A0512	Boyana Vara Prabas	P	P	P	P	P
3	21W51A0542	Katari Naga Mounika	P	P	A	P	P
4	21W51A0548	Kunda Veeranjanyulu	P	P	P	P	P
5	21W51A0574	Repara Indra Kumar	P	P	P	P	P
6	21W51A05A3	V Chiranjeevi	A	P	P	P	P

D. Sanjeevulu
 Faculty Incharge
 (Name & Signature)

[Signature]
 HOD
 HEAD
 Department of CSE
 Viswam Engineering College
 Angallu, Madanapalle-517325

Fig:2.1.1 1. A Sample Slow and Advanced learners Analysis (Attendance)

VISWAM ENGINEERING COLLEGE
(Formerly Sir Vishveshwaraiah Institute of Science & Technology)
Madanapalle - 517 325

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Academic Year:2022-2023(R20 Regulation)

Remedial Class Report

The remedial classes for the students who have secured less than 50% of mark in Mid 1 examination in the course **Advanced Data Structures & Algorithms-20a05301t** has been conducted from **06.12.2022 to 10.12.2022**. The performances of the students are checked by conducting Mid 2 examination. The comparison of mid 1 & 2 marks is listed below.

S.No	Roll No	Student Name	Mid 1	Mid 2	Remarks
1.	21W51A0509	Beegam Lakshmesh	09	26	Improved
2.	21W51A0512	Boyana Vara Prabas	9	28	Improved
3.	21W51A0542	Katari Naga Mounika	5	26	Improved
4.	21W51A0548	Kunda Veeranjanyulu	14	28	Improved
5.	21W51A0574	Repana Indra Kumar	5	17	Improved
6.	21W51A05A3	V Chiranjeevi	5	29	Improved

Dsr D. Sanjeeva Reddy
Faculty Incharge
(Name & Signature)

HOD
HEAD
Department of CSE
Viswam Engineering College
Angallu, Madanapalle-517325

Fig:2.1.1.m. A Sample form of Slow and Advanced learners Analysis (Improvement)

D. Quality of class room teaching:

Classes are made more interactive by encouraging student participation as follows:

- a. Question and Answers session in the class room
- b. Interrupting the lecture with a sample exam question.
- c. Integrating a case study or an inquiry or a problem-solving exercise into the class.
- d. Integrating student presentations in the class room.

- e. Asking questions that involve higher-order thinking skills like diagnostic, challenge, evaluation or prediction questions.
- f. Asking students to summarize the main points everyday make note of that they learned in class that day in the difficult concepts in class.
- g. Asking the students to explain the relevance, utility or significance of the information presented in the class.

E. Conduct of experiments

- a. A lab manual will be maintained / provided in each laboratory.
- b. Each laboratory includes two types of experiments:
- c. Experiments are in the prescribed syllabus.
- d. Additional Experiments/Design experiments that cover advanced topics.
- e. All the experiments in the prescribed syllabus will be compulsorily followed and completed by the end of the semester.
- f. The objective and the procedure for all experiments in the prescribed syllabus will be available in the lab manual.
- g. Each student should maintain an observation book to record the details of work done in each laboratory session.
- h. The students are directed to write the step-by-step procedure to achieve a solution for the given experiment.
- i. The faculty-In-Charge will check the procedure and then students can proceed with the experiment.
- j. Students analyze the data to plot graph or other related work.
- k. The final output will be verified by the faculty-in-charge.
- l. Students should add the details of the experiments done in the laboratory to the prescribed record book.
- m. Students can appear for the University Practical Examination only, if the record is certified by the faculty-in-charge.

F. Continuous Assessment in the laboratory:

Students are encouraged to learn through experiments in the physical laboratories as well as virtual laboratories, in the relevant courses. The Head of the Departments finalize the modalities for the CIE of all the Practical courses. The modalities are made known to the students by the faculty concerned in the beginning of the semester. Each experiment conducted by the student is evaluated on day-to-day basis, to make the assessment comprehensive while awarding marks for each experiment due weightage is given to class performance and viva-voce, observations, and records.

Performance Record

S.NO	ROLL NUMBER	RECORD		OBS		RECORD		OBS		RECORD		OBS		RECORD		OBS		RECORD		OBS		RECORD		OBS		RECORD		OBS	
		(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)
1	22WS/AOS01	8	4	9	5	8	4	9	4	8	5	9	4	9	4	8	5	9	4	8	5	9	4	8	5	9	4		
2	22WS/AOS02	8	4	9	5	10	5	8	4	8	5	9	4	10	5	9	4	8	4	10	4	10	4	10	4	10	4		
3	22WS/AOS03	10	5	8	4	9	5	9	5	8	5	9	5	10	4	9	5	9	5	9	4	10	5	9	4	10	5		
4	22WS/AOS04	9	4	8	4	8	5	9	4	9	5	8	4	10	4	9	4	8	4	8	5	8	4	8	5	8	4		
5	22WS/AOS05	8	4	8	5	7	5	8	4	8	5	7	4	8	4	8	5	8	4	8	3	8	5	8	4	8	5		
6	22WS/AOS06	8	5	8	4	9	4	10	5	9	5	8	4	8	5	10	4	8	4	8	4	8	4	8	4	8	5		
7	22WS/AOS07	9	4	8	5	8	4	8	5	9	4	8	4	8	5	9	5	9	5	8	4	8	4	8	4	8	4		
8	22WS/AOS08	10	5	9	4	9	5	8	5	9	5	8	5	10	5	9	4	10	5	9	5	9	4	10	5	9	4		
9	22WS/AOS09	8	5	AB	AB	7	3	9	4	8	3	AB	AB	5	3	AB	AB	7	4	6	4	AB	AB	7	4	AB	AB		
10	22WS/AOS10	8	5	9	4	8	4	8	5	8	4	8	5	8	4	8	4	9	5	8	5	8	5	8	5	8	5		
11	22WS/AOS11	9	5	10	5	9	4	9	5	8	5	9	4	10	4	8	4	9	5	9	4	9	5	9	4	9	5		
12	22WS/AOS12	8	4	AB	AB	AB	AB	AB	AB	AB	AB	5	3	7	3	8	3	6	4	7	3	AB	AB	7	3	AB	AB		
13	22WS/AOS13	10	5	9	5	9	4	9	5	10	4	9	5	8	5	10	4	10	5	9	5	9	4	10	5	9	4		
14	22WS/AOS14	8	5	8	4	9	5	10	4	8	5	8	4	8	5	9	4	8	5	9	5	9	5	9	5	9	5		
15	22WS/AOS15	7	4	6	3	AB	AB	AB	AB	AB	AB	5	4	6	4	7	3	9	4	6	5	AB	AB	7	3	AB	AB		
16	22WS/AOS16	8	5	8	4	8	4	8	5	8	4	8	5	8	5	8	4	9	4	8	5	8	4	8	5	8	4		
17	22WS/AOS17	8	5	8	5	8	5	8	4	9	4	8	5	8	4	8	4	8	5	8	4	8	4	8	4	8	4		
18	22WS/AOS18	9	4	9	5	8	5	8	4	8	5	8	5	8	4	9	4	8	5	8	4	8	4	8	4	8	4		
19	22WS/AOS19	9	5	9	4	9	4	9	5	10	4	9	4	8	5	8	4	9	4	9	5	8	5	8	4	8	5		
20	22WS/AOS20	8	4	8	5	8	5	8	5	8	4	8	5	8	4	8	5	8	5	8	4	8	4	8	5	8	4		
21	22WS/AOS21	10	5	9	4	10	4	9	5	10	5	10	4	9	5	9	4	9	4	9	5	10	5	10	4	9	5		
22	22WS/AOS22	10	4	9	5	10	5	9	5	9	4	10	5	9	5	9	4	9	5	9	5	10	4	9	5	10	4		
23	22WS/AOS23	AB	AB	6	3	5	2	7	5	5	4	7	3	5	2	5	5	7	4	AB	AB	AB	AB	7	4	AB	AB		
24	22WS/AOS24	8	5	9	4	8	4	8	4	8	4	9	5	8	5	9	4	8	4	8	4	8	4	8	4	8	5		
25	22WS/AOS25	6	4	AB	AB	9	4	AB	AB	5	5	7	4	AB	AB	7	3	7	4	AB	AB	6	4	AB	AB	6	4		
26	22WS/AOS26	9	5	9	4	8	5	8	4	8	5	8	5	9	4	8	5	8	5	8	4	9	5	8	4	9	5		

Fig2.1.1. n Student Performance Record

G. Student’s Feedback on Teaching Learning Process:

- a. Student Feedback is valuable for identifying areas of improvement in the instructional methodologies, because simple changes can help ,motivating the students and enhance their learning.
- b. Feedback is taken once in every semester.
- c. The Head of the Department will provide some suggestions for the improvement based on the feedback if required.

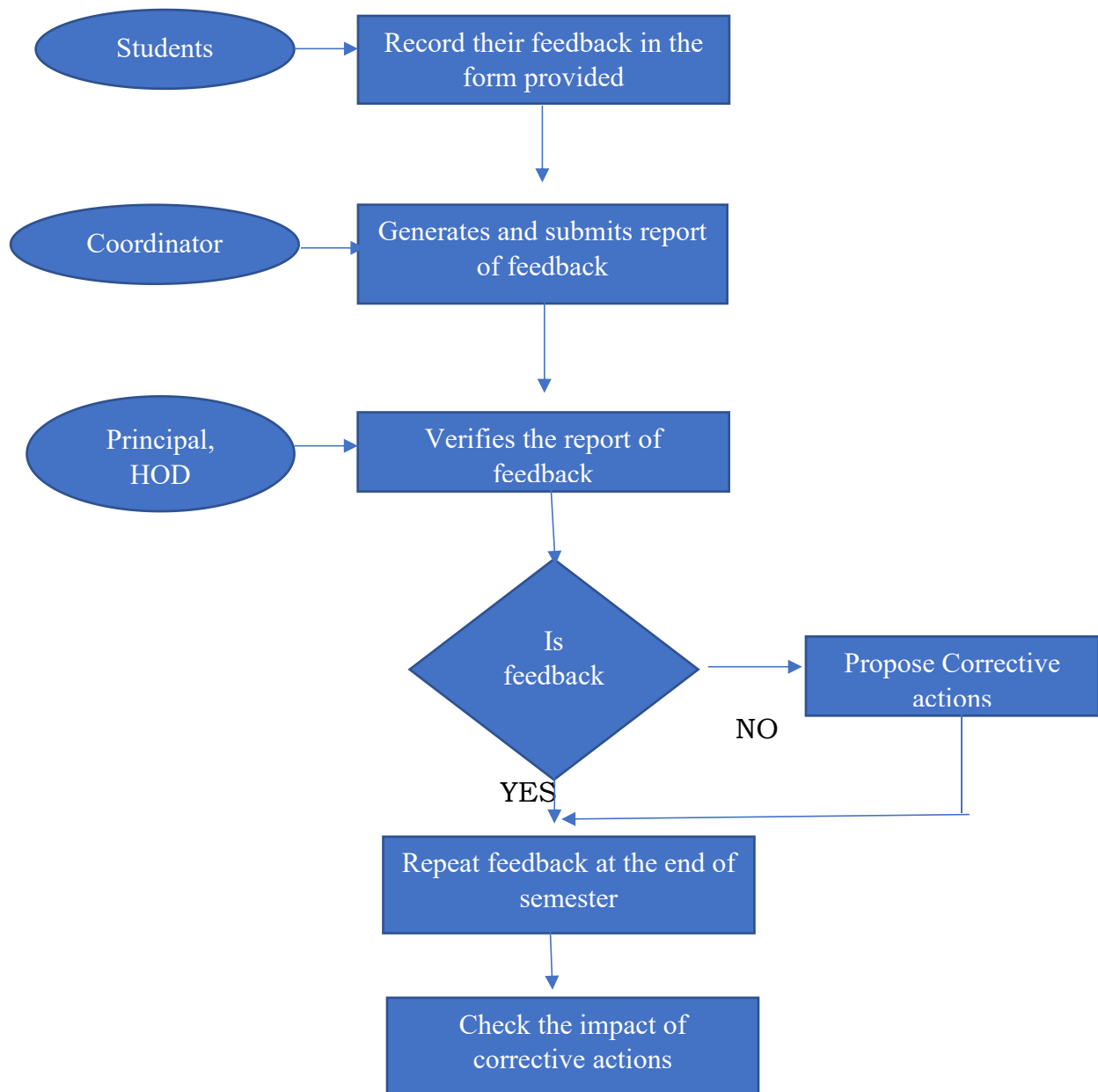


Fig2.1.1. o. Feedback form process

Sample format of student feedback form:

Feedback from the students will be collected 2 weeks after commencement of semester. After the completion of the first Unit Head of the department will address the students to assess the quality of teaching. This also helps as intermittent feedback about the faculty. Based on this, Head informs the faculty for betterment, Arrange expert lectures to overcome the drawbacks. The analysis of the final feedback is carried out at the end of every semester, which will be helpful in subject allotment in next semester and additional incentives, increments for good performing faculty.



Viswam Engineering College

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu
Accredited by NAAC with A Grade
Recognized under 2(f) UGC ACT, An ISO 9001:2015 Certified Institution
Angallu, Madanapalle-517325, Annamayya Dist., A. P.

Fig.

DEPARTMENT OF CSE-A

STUDENTS FEEDBACK FORM

Year & Sem **1 & 1**

- To be filled by the students for teaching evaluation by the students. This will help teachers to improve his/her skills
- Rate each item by points according to your assessment of teachers performance on the five point scale given below
- **Excellent-05, Very Good-04, Good-03, Fair-02, Poor-01**

1.Preparation:

Parameters	CE	CHE	LA&C	BC&ME	IP	CE Lab	CHE Lab	CP Lab	EWS
a. Teacher comes to class in time	05	05	05	05	05	05	05	05	05
b. Teaching is well planned	05	05	05	05	05	05	05	05	05
c. Aims/objectives made clear	05	05	05	05	05	05	05	05	05
d. Subject matter organized in logical sequence	05	04	05	04	04	05	05	05	05
e. Teacher comes well prepared in the subject	05	05	05	04	04	05	05	04	05
TOTAL	25	24	25	23	23	25	25	24	25

2. Presentation & Communication :

Parameters	CE	CHE	LA&C	BC&ME	IP	CE Lab	CHE Lab	CP Lab	EWS
a. Teacher speaks clearly & audibly	05	05	05	05	04	05	05	05	05
b. Teaching writes & draws legibly	05	05	05	05	05	05	05	05	05
c. Teachers provide examples of concepts / princ.	04	04	05	05	04	05	04	04	05
d. Teacher's pace & level of instructions suitable	05	05	05	05	05	05	05	05	05
e. Teachers offers assistance & counseling to the ready students	05	05	05	05	04	05	05	05	05
TOTAL	24	24	25	25	22	25	24	24	25

3.Student's participation :

Parameters	CE	CHE	LA&C	BC&ME	IP	CE Lab	CHE Lab	CP Lab	EWS
a. Teacher asks questions to promote interaction & reflective thinking	05	05	05	05	05	05	05	05	05
b. Teacher encourages questioning / raising doubts by the students & answers them well	05	05	05	05	05	05	05	05	05
c. Teachers ensures learner activity and problem solving activity displayed by the students	04	04	04	03	03	04	04	04	04
d. Teacher encourages compliments & praises originality and creativity displayed by the students	05	05	05	05	05	05	05	05	05
e. Teacher is courteous & impartial in dealing with the students	05	05	05	05	05	05	05	05	05
TOTAL	24	24	24	23	23	24	24	24	24

4.Class Management / Assessment of Students:

Parameters	CE	CHE	LA&C	BC&ME	IP	CE Lab	CHE Lab	CP Lab	EWS
a. Teacher engages classes regularly & maintains discipline	05	05	05	05	04	05	05	05	05
b. Teaching covers the syllabus & at appropriate pace	05	05	05	04	04	05	05	05	05
c. Teacher holds tests regularly which are helpful to students in building up confidence in their & application of knowledge	05	05	05	05	05	05	05	05	05
d. Teachers marking of answer scripts is fair & impartial	05	04	05	05	05	05	05	05	05
e. Teacher is prompt in valuing & returning the answer scripts & providing feedback on performance	05	05	05	05	05	05	05	05	05
TOTAL	25	24	25	24	23	25	25	25	25

Total Score (Out of 100)

Total Score (Out of 100)	298	96	99	95	91	99	98	97	99
Comments on HOD	She maintains very disciplinarily and strictly it was good								
Comments on Principal	he supports to students very good								
suggestions/ inputs to improve the campus	If you see to all in dress code then select								

2.1.1.o. Sample Feedback

Sample of Student Feedback Analysis for the Academic Year: 2023-24 - I sem

VISWAM ENGINEERING COLLEGE							
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING							
Feedback For Faculty for the ACADEMIC YEAR - 2022-23 - I SEMESTER							
S.No	Faculty Name	Subject Code	Subject Name	Sec	Semes ter	% of Feed back	Dept.
1	V. VIJAYA KUMAR	20A5430 4	Discrete Mathematics & Graph Theory	SEC-A	II-I	80	H & S
				SEC-B		78	
2	N. MANJULA	20A0430 4T	Digital Electronics & Microprocessors	SEC-A	II-I	75	ECE
	N. NAGENDRA			SEC-B		76	
3	D. SANJEEVA REDDY	20A0430 4T	Advanced Data Structures & Algorithms	SEC-A	II-I	79	CSE
	Dr.B LAXMIKANTHA			SEC-B		82	
4	I.DEEEPIKA	20A0530 2T	Object Oriented Programming Through Java	SEC-A	II-I	87	CSE
	DR G SANKAR			SEC-B		85	
5	C. PRAVALLIKA	20A0530	Computer	SEC-A	II-I	79	CSE

	Dr. G KISHORE KUMAR	3	Organization	SEC-B		85	
6	N. MANJULA	20A0430 4P	Digital Electronics & Microprocessors Lab	SEC-A	II-I	86	ECE
	N. NAGENDRA			SEC-B		84	
7	D. SANJEEVA REDDY	20A0430 4P	Advanced Data Structures and Algorithms Lab	SEC-A	II-I	89	CSE
	P. VISWANATHA REDDY			SEC-B		86	
8	I. DEEPIKA	20A0530 2P	Object Oriented Programming Through Java Lab	SEC-A	II-I	87	CSE
	DR G SANKAR			SEC-B		84	
9	Y. BASANTHI	20A0530 4	Web application Development	SEC-A	II-I	87	CSE
	Dr. E NAGARJUNA			SEC-B		88	
10	N. ARUNA SANDHYA	20A5220 1	Universal Human Values	SEC-A	III-I	74	CSE
				SEC-B		72	
11	DR. V. HEMASREE	20A0550 1T	Computer Networks	SEC-A	III-I	79	CSE
	DR G MANIKANTA			SEC-B		75	
12	B. JYOTHSNA	20A0550 3	Formal Languages and Automata Theory	SEC-A	III-I	78	CSE
				SEC-B		74	

13	A. SRINIVASAN	20A0550 2T	Artificial Intelligence	SEC-A	III-I	72	CSE
	Mrs. B MADHAVI			SEC-B		73	
14	K. VIJAYA LAKSHMI	20A0550 4a	Software Project Management	SEC-A	III-I	79	CSE
	Mrs.B SASIKALA			SEC-B		81	
15	DR. V. HEMASREE	20A0550 1P	Computer Networks Lab	SEC-A	III-I	79	CSE
	Mrs. T SARADA			SEC-B		81	
16	A. SRINIVASAN	20A0550 2P	Artificial Intelligence Lab	SEC-A	III-I	89	CSE
				SEC-B		86	
17	B. JYOTHSNA	20A0550 6	Advanced Web Application Development	SEC-A	III-I	87	CSE
	Mr.K RAMANJULU			SEC-B		84	
18	Dr. BD. VENKATRAMANA REDDY	20A0450 7	MATLAB Programming for Engineers	SEC-A	IV-I	82	ECE
				SEC-B		80	
19	Y. BASANTHI	20A0570 1a	Cloud Computing	SEC-A	IV-I	79	CSE
	Mr.D RAMAKANTH			SEC-B		77	
20	GS. GOWTHAMI KUMARI	20A0570 2c	Natural Language Processing	SEC-A	IV-I	76	CSE
	Mr. M SIVA			SEC-B		78	

	KUMAR REDDY						
21	Dr. R. VASANTHSELVAK UMAR	20A0570 3c	Deep Learning	SEC-A	IV-I	75	CSE
				SEC-B		72	
22	R. RAVEENDRA	20A0450 6	Principles of Communication Systems	SEC-A	IV-I	72	ECE
				SEC-B		74	
23	T. REDDI RANI	20A0470 6	Principles of Cellular & Mobile Communications	SEC-A	IV-I	75	ECE
	R. HARITHA			SEC-B		81	
24	P. VISWANATHA REDDY	20A0570 6	Mobile Application Development	SEC-A	IV-I	87	CSE
	Mr.K ANJINEYULU			SEC-B		85	

**Table. 2.1.1.e Sample form of Student Feedback Analysis for the Academic
Year: 2023-24 - I sem**

H. ACTION TAKEN REPORT:

Parameter	ACTION TAKEN
The teacher is punctual and has a well-planned lesson.	To enhance the students' interest for the subject, additional real-life scenarios and clarification of their doubts should be provided.
Well defined goals and objectives, a proper teaching style and skill from the teacher, Content arranged in a meaningful manner	In order to improve their subject knowledge, teachers are encouraged to refer to multiple textbooks and listen to NPTEL lectures on the relevant topics.
	ICT tools are provided in classrooms to enhance comprehension.
Teacher delivers with great volume and clarity, Teacher writes clearly and drawn text The teacher gives sufficient directions at the right time, quality and provides instances of ideas. Instructors advise and guide students who are ready.	Questions need to be posed in class to encourage students who provide accurate responses and to encourage on other learners.
	If the faculty decides to rearrange the course material in any unit, based on its relative relevance, they should do so without altering the syllabus as a whole.
	The standard curriculum in the classroom has to be supplemented with more inventive and useful ideas.
In order to encourage conversation and deliberate thought, the teacher poses	Teachers should carefully organize their classes at the start of each semester and stick to their schedules.

questions.	
Student questions and doubts are encouraged, and the teacher provides thoughtful responses.	It is suggested that lecturers in the classroom have to maintain control over the class to ensure that every student is paying attention to what they are teaching.
Students' uniqueness and inventiveness is praised and complimented and encouraged by the teacher.	Head and senior faculty members are asked to confirm that the assignments and tests, provided by the faculty are accurate, and any feedback can be taken into consideration.
The teacher keeps the classroom disciplined, engages students on a frequent basis, and covers the material at the right speed.	To improve their involvement with the subject, students are instructed to deliver seminars on specific topics.

Table. 2.1.1.f. Action taken feedback process

2.2.2 Quality of Internal semester question papers, assignments and evaluation (20/20)

To make students achieve the expected learning outcomes the internal assessment acts as major tool. The internal assessment tools include midterm exams, assignments, quizzes, etc.

2.2.2. a. Assessment processes:

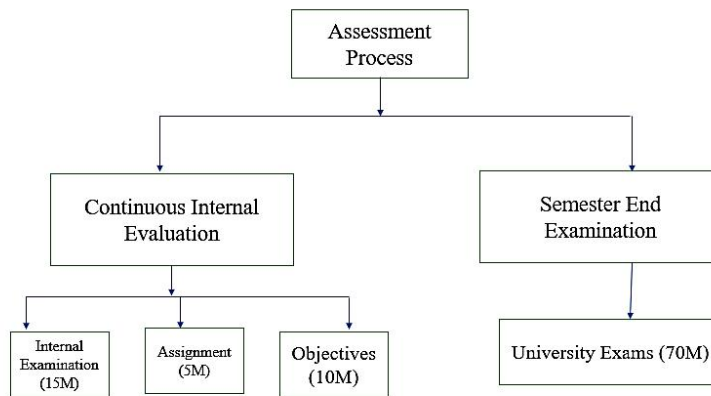


Fig. 2.2.2. a. Assessment processes

To make students achieve the expected learning outcomes the internal assessment acts as major tool. The internal assessment tools include midterm exams, assignments, quizzes, etc.

Assessment processes:

Choice Based Credit System:	
External Assessment	70
Internal Assessment	30
Internal examination	15
Objective	10
Assignment	5

Table. 2.2.2 a Assessment processes:

Continuous internal Evaluation: Utmost care is taken while preparing the question paper for making the students understand the papers clearly. This empowers the faculty to assess the learning outcomes of the students. Course Coordinators will assess the quality of the internal question papers prepared by the faculty of the concerned subject.

To increase the awareness of the outcome that a student has to achieve, a CO number is given to each question. Internal Marks obtained in internal exams of each subject is assessed and recorded.

Assignments, quiz/seminars help to assess the student's ability to use fundamental concepts, innovativeness, quantitative, numerical and analytical skills. The details of assignments are made available in the course files of the faculty. The quality of assignments is assessed by the Course Coordinator in the department.

1. Theory Courses:

In CBCS curriculum, theory courses consist of continuous internal evaluation (CIE) process which has two Mid-term examinations for 15 marks each (average of two will be considered), Assignment and Quiz (or seminar) of 5 marks each and Semester End Examination (SEE) which is for 70 marks.

Internal Question paper analysis is done in which, each question is mapped with a CO. The CO percentage score (representing the maximum extent to which the CO can be attained) is computed based on the number of student's attained base marks (50%) and the number of students attempted the question. It is made sure that the entire six COs are covered in two internal examinations.

Assignments and quizzes also cover all COs. The CO percentage score is computed the same as above.

Process for internal semester question paper setting and evaluation and effective process implementation:

- ✓ The written test consists of short answer questions and subjective questions. Two Internal Tests will be conducted in each semester. Average marks secured in both tests are considered as final marks.

- ✓ Setting question papers for internals, sample question paper format (standardized) that includes CO numbers and BT levels are distributed. Question papers will be collected in the prescribed format ensuring that the Outcomes are specified in each paper.
- ✓ A proper scheme of evaluation will be prepared for all the prepared question papers by the respective course instructors.
- ✓ As the institution is giving importance to Outcome Based Education (OBE) certain reforms are introduced in the conduct of CIE tests. The Course outcomes are well defined for all the courses and they are mapped with Programme Outcomes.

Framing question paper for evaluation

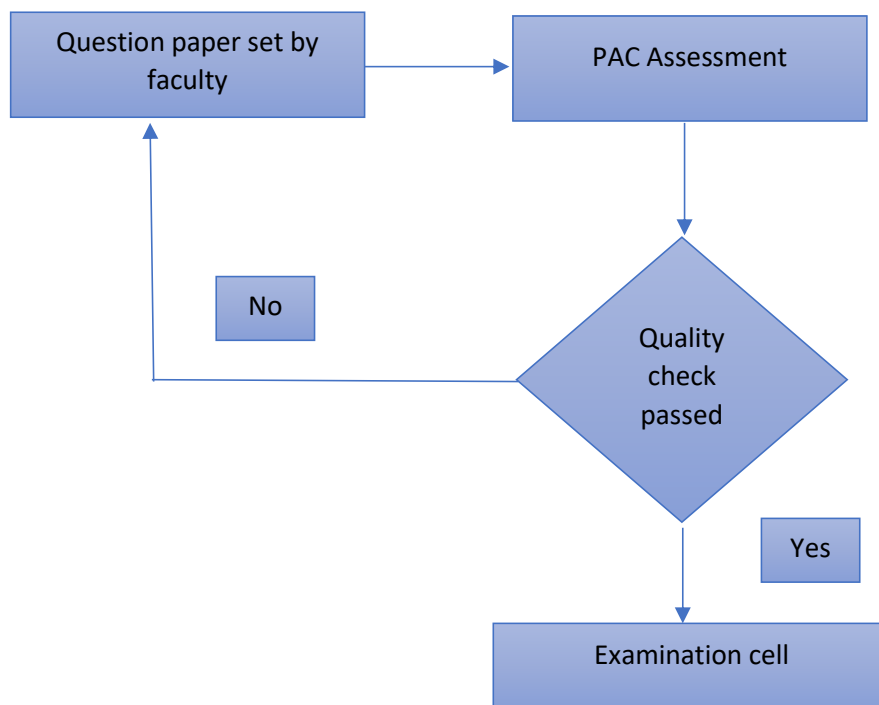


Fig. 2.2.2. b. Framing question paper for evaluation

A. Process to ensure questions from outcomes/learning levels perspectives:

- Question papers are set in that way all the course outcomes are covered.
- All the questions in the CIE question papers start with action verbs as per

the Blooms Taxonomy and course outcomes and bloom's taxonomy levels are mentioned against every question.

- This way of setting the questions facilitates in measuring the attainment levels of both the course outcomes and Programme Outcomes.
- A couple of days prior to the commencement of internal examinations, HOD along with Internal Exam in-charges check the quality of internal question papers and ensures that the questions are as per Bloom's Taxonomy.
- The Bloom's taxonomy levels are described.

Bloom's Taxonomy Levels (BTLs)

Taxonomy Level (from lower order thinking skill to higher order thinking skill)	Title of Level	Description of Level
1	Remember	Exhibit memory of previously learned material by recalling facts, terms, basic concepts and answers.
2	Understand	Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions and stating main ideas.
3	Apply	Solve problems of new situations by applying acquired knowledge, facts, techniques and rules in a different way.
		Examine and break information into parts by identifying motives or causes. Make inferences

4	Analyze	and find evidence to support generalizations.
5	Evaluate	Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a certain criterion.
6	Create	Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions

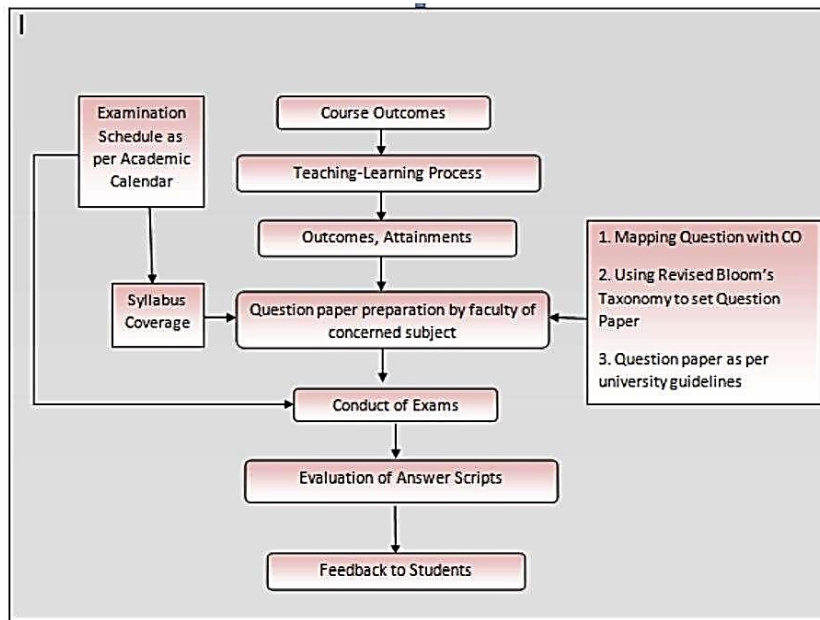


Fig. 2.2.2 b. Student Feedback Processes

B. Evidence of COs coverage in class test/Mid-term tests: (5 Marks)

Question paper is prepared, using Blooms Taxonomy with Course Outcomes and levels. All the five units are covered in two midterm exams.

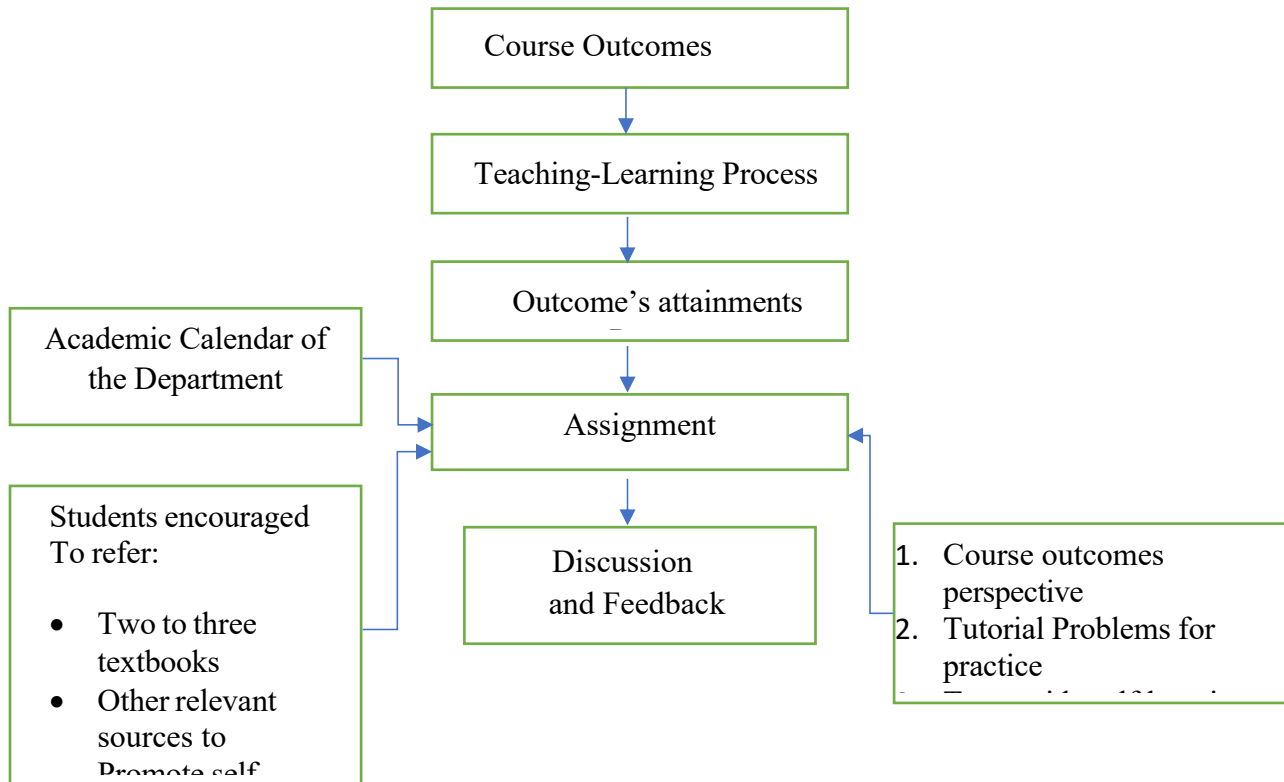


Fig.2.2.2 c. Evidence of Cos Coverage in class test/Mid-term tests

Quality of Internal Question Paper:

- ✓ While setting the question paper, the faculty addresses Blooms Taxonomy (BT) levels.
- ✓ The faculty is responsible to set the question paper by analyzing the quality and pattern of question paper.
- ✓ The scheme and solution of question paper has to be maintained by faculty.

The DAC verifies the question paper.

Sample Course assessment process is provided to show Continuous Internal Evaluation Process.

1. Internal –I Question Paper:

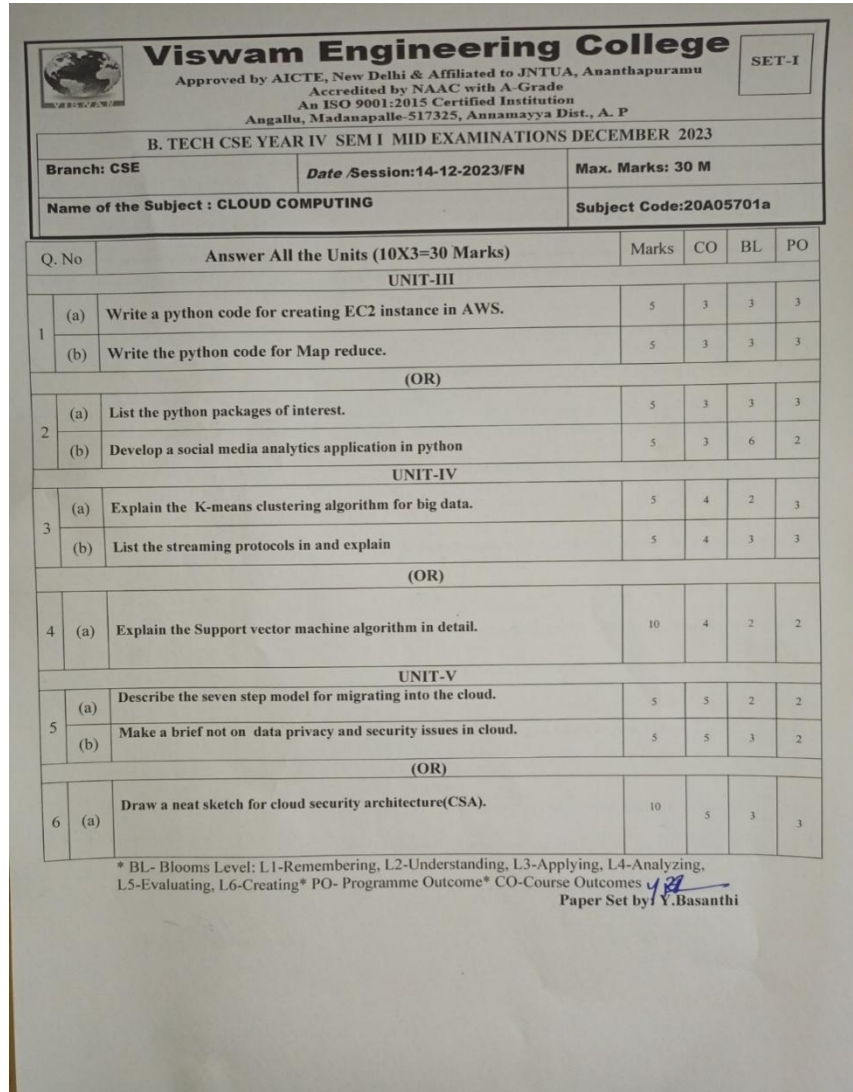



Fig.2.2.2.d Internal –I Question Paper

1. Internal-II Question Paper



Viswam Engineering College
Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu
 Accredited by NAAC with A-Grade
 An ISO 9001:2015 Certified Institution
 Angallu, Madanapalle-517325, Annamayya Dist., A. P

SET-II

B. TECH CSE YEAR IVSEM I MID EXAMINATIONS DECEMBER 2023

Branch: CSE	Date /Session:14-12-2023/FN	Max. Marks: 30 M
Name of the Subject: CLOUD COMPUTING		Subject Code:20A05701a

Q. No	Answer All the Units (10X3=30 Marks)	Marks	CO	BL	PO
UNIT-III					
1	(a) List the python packages of interest.	5	3	3	3
	(b) Develop a social media analytics application in python	5	3	6	2
(OR)					
2	(a) Write a python code for creating EC2 instance in AWS.	5	3	3	3
	(b) Write the python code for Map reduce.	5	3	3	3
UNIT-IV					
3	(a) Explain the Support vector machine algorithm in detail.	10	4	2	2
(OR)					
4	(a) Explain the K-means clustering algorithm for big data.	5	4	2	3
	(b) List the streaming protocols in and explain	5	4	3	3
UNIT-V					
5	(a) Draw a neat sketch for cloud security architecture(CSA).	10	5	3	3
(OR)					
6	(a) Describe the seven step model for migrating into the cloud.	5	5	2	2
	(b) Make a brief not on data privacy and security issues in cloud.	5	5	3	2

* BL- Blooms Level: L1-Remembering, L2-Understanding, L3-Applying, L4-Analyzing, L5-Evaluating, L6-Creating
 * PO- Programme Outcome
 * CO-Course Outcomes


Paper Set by:  Y. Basanthi

Fig.2.2.2 e Internal –I Question Paper

C. Quality of Assignment and its relevance to Cos and Pos.

- Five assignments are given to students before conducting mid exams
- Each question is mapped with COs and POs
- Assignment questions set based RBTL

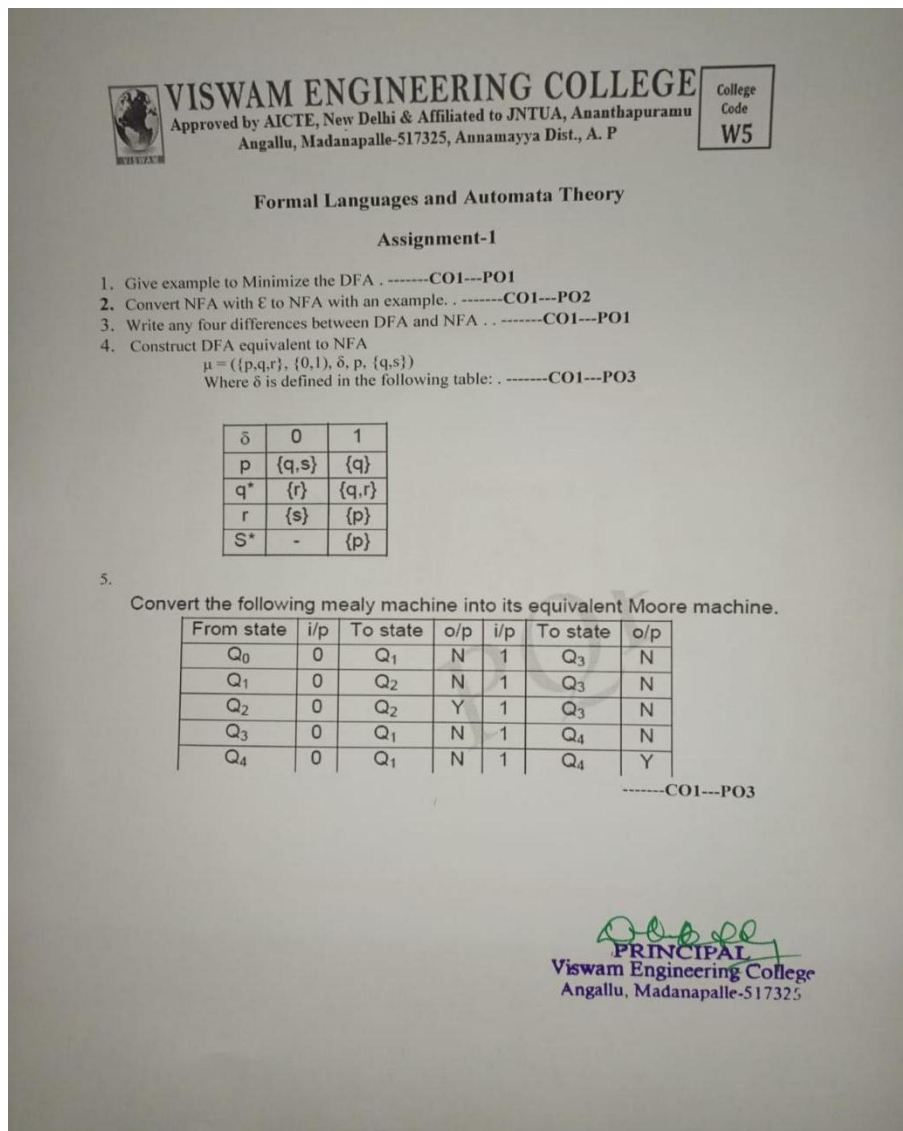



Fig.2.2.2 f. Sample assignment question papers

A. Sample Scheme of Evaluation of a Course with a question paper



Viswam Engineering College

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu
Accredited by NAAC with A-Grade
Recognized under 2(f) UGC ACT. An ISO 9001:2015 Certified Institution
Angallu, Madanapalle-517325, Annamayya Dist., A. P

B. TECH IV YEAR I SEM II MID EXAMINATIONS - DECEMBER- 2023

Branch: CSE	Date /Session:14-12-2023	Max. Marks:30M
Name of the Subject: CLOUD COMPUTING	Subject Code:20A05701a	

SCHEME OF EVALUATION

1 A.	Python code for Creating EC2 instance	5M
B.	Python Code for Map Reduce	5M
2 A.	PYTHON PACKAGES (NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn. Tensor Flow, SQL Alchemy.)	5M
B.	Social Media Ala Analytics Applications	5M
3 A.	K-MEANS Clustering Algorithm	5M
B.	Streaming Protocols (RTMFE, RTMFT, RTMFP (P2P), HTTP Dynamic Streaming	5M
4	SUPER VECTOR MACHINE Algorithm	5M
	Example	5M
5.A.	Seven stem model for migrating	5M
B.	Data privacy Issues	2.5M
	security issues in cloud computing	2.5M
6	Cloud Security Architecture	10M

Y. ER

Fig.2.2.2 g. Scheme of evaluation of mid question papers

2. Lab Courses: Lab Attainment Process:

In Non CBCS and CBCS curriculum, Lab courses consist of continuous internal evaluation (CIE) for 30 marks. In CIE, Continuous Evaluation Sheet and Internal Examination is considered for internal Assessment.

Evaluation Type	Components	Marks
Continuous Internal Evaluation	Practical	10
	Record/ Observation	15
	Viva	5

Table 2.2.2 Attainment Process:

1. Lab Programs with CO & PO Relevance (Artificial Intelligence Lab)

S.NO	Name of the Program	Cos	Relevant PO's
1	Write a program to implement DFS and BFS	CO3	PO2
2	Write a program to implement DFS and BFS	CO3	PO3
3	Write a program to implement Simulated Annealing Algorithm	C04	PO2
4	Write a program to find the solution for the wampus world problem	C04	PO4
5	Write a program to implement 8 puzzle problems	C04	PO4
6	Write a program to implement Towers of Hanoi problem	C04	PO3
7	Write a program to implement A* Algorithm	C04	PO4
8	Write a program to implement Hill Climbing Algorithm	C04	PO4
9	Build a Chatbot using AWS Lex, Pandora bots	CO5	PO3
10	Build a bot that provides all the information related to your college.	CO5	PO3
11	Build a virtual assistant for Wikipedia using Wolfram Alpha and Python	CO5	PO5
12	# Count the number of times string s1 is found in string s2 Def count_substring(s1,s2): count = 0 for i in range(0,len(s2)-len(s1)+1): if s1 == s2[i:i+len(s1)]: count += 1 return count For instance, count_substring('ab','cabalaba') returns 2.	CO5	PO2
13	Higher order functions. Write a higher-order function count that counts the number of elements in a list that satisfy a given test. For instance: count (lambda x: x>2, [1, 2, 3, 4, 5]) should return 3, as there are three elements in the list larger than 2. Solve this task without using any existing higherorder function.	CO5	PO3
14	Brute force solution to the Knapsack problem. Write a function that allows you to generate random problem instances for the knapsack program. This function should generate a list of items containing N items that each have a unique name, a random size in the range 1 5 and a random value in the range 1..... 10.	CO5	PO3
15	Assume that you are organising a party for N people and have been given a list L of people who, for social reasons, should not sit at the same table. Furthermore, assume that you have C tables (that are infinitely large)	CO5	PO3

Fig.2.2.2 g. Lab Programs with CO & PO Relevance

Sample Lab Evaluation Sheet

Performance Record																							
S.NO	ROLL NUMBER	RECORD / OBS		RECORD / OBS		RECORD / OBS		RECORD / OBS		RECORD / OBS		RECORD / OBS		RECORD / OBS		RECORD / OBS		RECORD / OBS		RECORD / OBS			
		(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)	(10m)	(5m)		
1	22WS1A0501	8	4	9	5	8	4	9	4	8	5	9	4	9	4	8	5	9	4	8	5	9	4
2	22WS1A0502	8	4	9	5	10	5	8	4	8	5	9	4	10	5	9	4	8	4	10	4	10	4
3	22WS1A0503	10	5	8	4	9	5	9	5	8	5	9	5	10	4	9	5	9	5	9	4	10	5
4	22WS1A0504	9	4	8	4	8	5	9	4	9	5	8	4	10	4	9	4	8	4	8	5	8	4
5	22WS1A0505	8	4	8	5	7	5	8	4	8	5	7	4	8	4	8	5	8	4	8	3	8	5
6	22WS1A0506	8	5	8	4	9	4	10	5	9	5	8	4	8	5	10	4	8	4	8	4	8	5
7	22WS1A0507	9	4	8	5	8	4	8	5	9	4	8	4	8	5	9	5	9	5	8	4	8	4
8	22WS1A0508	10	5	9	4	9	5	8	5	9	5	8	5	10	5	9	4	10	5	9	5	9	4
9	22WS1A0509	8	5	AB	AB	7	3	9	4	8	3	AB	AB	5	3	AB	AB	7	4	6	4	AB	AB
10	22WS1A0510	8	5	9	4	8	4	8	5	8	4	8	5	8	4	8	4	9	5	8	5	8	5
11	22WS1A0511	9	5	10	5	9	4	9	5	8	5	9	4	10	4	8	4	9	5	9	4	9	5
12	22WS1A0512	8	4	AB	AB	AB	AB	AB	AB	AB	AB	5	3	7	3	8	3	6	4	7	3	AB	AB
13	22WS1A0513	10	5	9	5	9	4	9	5	10	4	9	5	8	5	10	4	10	5	9	5	9	4
14	22WS1A0514	8	5	8	4	9	5	10	4	8	5	8	4	8	5	9	4	8	5	9	5	9	5
15	22WS1A0515	7	4	6	3	AB	AB	AB	AB	AB	AB	5	4	6	4	7	3	9	4	6	5	AB	AB
16	22WS1A0516	8	5	8	4	8	4	8	5	8	4	9	5	8	5	8	4	9	4	8	5	8	4
17	22WS1A0517	8	5	8	5	8	5	8	4	9	4	8	5	8	4	8	4	8	5	8	4	8	4
18	22WS1A0518	9	4	9	5	8	5	8	4	8	5	8	5	8	4	9	4	8	5	8	4	8	4
19	22WS1A0519	9	5	9	4	9	4	9	5	10	4	9	4	8	5	8	4	9	4	9	5	8	5
20	22WS1A0520	8	4	8	5	8	5	8	5	8	4	8	5	8	4	8	5	8	5	8	4	8	4
21	22WS1A0521	10	5	9	4	10	4	9	5	10	5	10	4	9	5	9	4	9	4	9	5	10	5
22	22WS1A0522	10	4	9	5	10	5	9	5	9	4	10	5	9	5	9	4	9	5	9	5	10	5
23	22WS1A0523	AB	AB	6	3	5	2	7	5	5	4	7	3	5	2	5	5	7	4	AB	AB	AB	AB
24	22WS1A0524	8	5	9	4	8	4	8	4	8	4	9	5	8	5	9	4	8	4	8	4	9	5
25	22WS1A0525	6	4	AB	AB	9	4	AB	AB	5	5	7	4	AB	AB	7	3	7	4	AB	AB	6	4
26	22WS1A0526	9	5	9	4	8	5	8	4	8	5	8	5	9	4	8	5	8	5	8	4	9	5

Fig.2.2.2 h. Sample Lab Evaluation Sheet

2.2.3. Quality of student projects (25/25)

The students of final year do their project in two steps.

Step 1: Initially at first semester the process involves selection of topic, collecting of literature survey, find available techniques in addressing the problem and give presentation on the status.

Step 2: In the final semester, involves to carry out the project i.e., design, development, analysis and fabrication of the models, whichever applicable, final project preparation and submission of the report as a partial fulfilment for the award of degree. Students are grouped into batches and execute the project under the guidance of a faculty member. The student is evaluated for the successful performance of the work by a committee (Project Review Committee) constituted for this purpose. The student utilizes the technical knowledge learnt during the course work in the execution of the project. He also utilizes various softwares, design methodologies, preparation of models, testing, calculations etc, for the project implementation and execution. Each batch will give detailed presentation in front of the duly constituted committee about their project work, which involves collection of literature, design/ analysis, collection of experimental data, consolidation of results, preparation of report and presentation of the work at different phases. These activities fulfil almost all the programmed outcomes. The best projects are identified in each year. Following procedure were followed to ensure the quality of student projects. As per the university syllabus projects have to be allotted in the I-Sem of final year. The actual project will be completed in the II-Sem of final year.

a Identification of Projects and Allocation of Methodology to Faculty Members**Project Identification**

- The student projects have to be selected in line with the department vision, mission, and program outcomes.
- Project selection is based on needs of industry/research & development/government organization /Socio technical issues and according to the requirement of solving real life problems.
- Students are provided with a brief idea of various fields for selection of project ideas.
- The list of previous year projects will be displayed in notice boards which ensures no repetition of projectwork and also encourages students to improve the previous works.
- The faculty encourage students to carry out in house projects and support will be provided with necessary software and hardware.

Project Allotment and Project Allocation Methodology to Faculty Members

- Project Coordinator prepares a list of faculties and their areas of interest for undertaking the project work.
- Project work has to be done by student groups. Formation of student groups has to be done according to their academic performance of previous semester internal marks. Maximum 4 students are permitted in any group.
- Faculty members give a brief lecture on areas of interest, ideas, areas, latest technological advances and motivate students to select a topic of interest.
- Student Batches approach the faculty and request for guidance.
- Each group undertakes a project from Seventh Semester.
- The project proposal is first approved by the project guide.
- The Project proposals will be submitted to the Project Coordinator.

- The Project Proposals submitted by each group will be classified into different categories:

Category 1: Application, Research, Utility and Innovation/Multi-disciplinary

Category 2: Cost, Ethics, Society, Environment etc.

- Proposals should map to the department POs and PSOs to ensure the quality of the Project.
- Each group will submit the abstract of the project proposal to the project coordinator after duly signed by project guide. The literature and the methodology will also be reviewed in the end of the Seventh Semester. The complete project work will be carried out during Eighth semester.
- The Project Evaluation committee comprises of Head of the Department, Project coordinator, two senior faculty members and concerned Project Guide will finalize the proposal during the First review (Project Seminar Review in Semester).

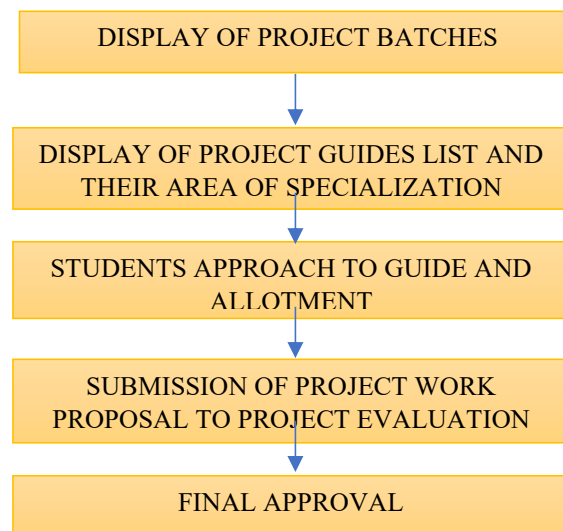


Fig : 2.2.3.a Projects and Allocation Methodology

Process	Description of Process
Formation of project batches	<ul style="list-style-type: none"> ➤ Students are formed into batches each batch contains 4 to 5 students.
Project Identification	<ul style="list-style-type: none"> ➤ Students are given ideas on various fields ➤ List of previous year project is displayed to avoid repetition.
Guide & Project Allotment	<ul style="list-style-type: none"> ➤ Students select project titles on their own. ➤ Students approach the Staff members for their willingness as guide based on their Project Domains. ➤ If Staff member expresses his willingness to Guide the Students batch, students of that batch are allocated to the concerned project guide, who issues acceptance letter. ➤ The allocation of the project for each group will be completed within two weeks after the commencement of final year 1stsemester by The project Coordinator.
Preparing of project seminar Schedules	<ul style="list-style-type: none"> ➤ Project seminar schedule is prepared and Informed to the students.

Table2.2.3.c: Project Identification and Guide Allocation Process

The process of appointing Project Coordinator, Project Review Committee, formation of student groups/batches and allocation of the Project to the Faculty.

Process	Description of steps	Responsibility
Appointment of Project coordinator	HOD appoints Project coordinators (PC) for section A&B for the academic year.	HOD
Formation of Project Review committee	Project Review committees (PRC) for both section A&B will be formed with HOD as chairperson along with 4 committee members namely Project coordinator, two senior faculty members and the concerned guide of the project to assess the progress of the project work.	HOD
Formation of project batches	Students form into batches; each batch comprises 3 to 4 students. Extra attention is needed to balance both poor and intelligent students. Previous years students performance will be taken base team work is emphasized here.	PC and Guides
Allotment of project topics	The project topics will be collected from faculty members in their specializations. Students will also be encouraged in selecting their project topics in consultation with Faculty.	HOD, PC and Guides

Table. 2.2.2. Process of Appointing Project Review Committee Eight Semester

Guidelines for Project Seminar Presentation

- Each student is given 10 minutes duration to present his /her topic.
- Each batch should divide the entire project among themselves.
- Students are supposed to submit an independent report (checked & signed by the concerned guide) of 4 to 5 pages with spiral binding.
- **First page of the report consists of**
 - a) Title of the project as the main title.
 - b) Class, year, name & roll numbers.
 - c) Name and signature of the guide.
- **The seminar report consists of**
 - a) Content
 - b) Preliminary literature survey
 - c) Definition of the problem
 - d) Methodology likely to be adopted
 - e) Figures, flow charts, tables or any other necessary data should be furnished in the report clearly.
- Students are advised to use PPT in the seminars.
- Attendance will be considered for all the sessions.
- Distribution of Marks for Internal Assessment (Average marks given by all committee members is taken).

Expertise/area of specialization of faculty will be collected by the Project Coordinator and the list is displayed in the notice board as shown below.

Department of Computer Science and Engineering A.Y-2022-23		
Expertise/area of specialization of faculty		
S. NO	NAME OF THE GUIDE	EXPERTISE/ AREA OF SPECIALIZATION
1	Dr. R VASANTHSELVAKUMAR	COMPUTER VISION, MACHINE LEARNING
2	Dr.B LAXMIKANTHA	CLOUD COMPUTING, MACHINE LEARNING
3	DR J VANITHA VANI	ARTIFICIAL INTELLIGENCE, MACHINE LEARNING
4	DR G SANKAR	DATA MINING
5	Dr. G KISHORE KUMAR	DATA WAREHOUSING
6	Dr.E NAGARJUNA	DATA MINING, CLOUD COMPUTING
7	DR G MANIKANTA	DATA STRUCTURES
8	Dr. V HEMASREE	SOFTWARE TESTING, COMPUTER NETWORKS
9	Mrs. B JYOTHSNA	IoT, WIRELESS SENSOR NETWORKS
10	Mr. P VISWANATHA REDDY	ARTIFICIAL INTELLIGENCE, MACHINE LEARNING
11	Mr. A SRINIVASAN	BIG DATA, DATA STRUCTURES

12	Mr. D SANJEEVA REDDY	CLOUD COMPUTING
13	Mrs.B SASIKALA	IoT, WIRELESS SENSOR NETWORKS
14	Mrs. T SARADA	BIG DATA, DATA STRUCTURES
15	Mr.D RAMAKANTH	DATA STRUCTURES
16	Mrs. I DEEPIKA	COMPUTER NETWORKS, DBMS
17	Mrs. Y BASANTHI	WIRELESS SENSOR NETWORKS, IoT
18	Mrs. G S GOWTHAMI KUMARI	ARTIFICIAL INTELLIGENCE, NLP, ML
19	Mr. C. PRAVALLIKA	JAVA, DBMS
20	Mr. M SIVA KUMAR REDDY	DBMS, DL
21	Mr.K RAMANJULU	JAVA
22	Mr.K ANJINEYULU	CLOUD COMPUTING, DEVOPS
23	Mr. G S ARUN KUMAR	IoT, WIRELESS SENSOR NETWORKS
24	Mrs. G MADHAVI	DATA STRUCTURES
25	Mrs. K VIJAYA LAKSHMI	IoT, WIRELESS SENSOR NETWORKS
26	Mrs. P MUNAVIJAYA LAKSHMI	ARTIFICIAL INTELLIGENCE, MACHINE LEARNING
27	Mrs. N ARUNA SANDHYA	ARTIFICIAL INTELLIGENCE, DEEP LEARNING
28	Mrs. R VASANTHA KUMARI	IoT, WIRELESS SENSOR NETWORKS

Table:2.2.2 Project coordinators area of specialization

b.Types and relevance of the projects and their contribution towards attainment of POs and PSOs

The Project Coordinator after consulting with the individual concerned guide and other PRC members will make a classification/type of the project as per the categories given below and then the relevance of the project towards POs and PSOs will be mapped.

Category 1: Product, Application, Research, Utility and Innovation/Multi-disciplinary

Category 2: Cost, Ethics, Society, Environment etc.,

Summary Report of Projects Mapped with POs and PSOs for the CAYm2022-23

Project Mapping with POs & PSOs																	
S.No.	Name of the Project	Project Guide	Outcomes														
			PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS 01	PSO 2	PS 03
1	INDOOR OBJECT RECOGNITION BY USING DL	Dr. R.Vasanth selvakumar	√	√	√		√	√				√	√	√	√	√	√
2	STOCK ADMINISTRATION FRAME WORK BY USING DJANGO	B.Jyothsna	√	√	√	√	√		√		√	√	√	√	√	√	√

3	HEART DISEASES PREDECTIO N BY USING ML TECHNIQUE S	P. Viswanath a Reddy	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
---	--	----------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table: 2.2.2 Summary Report of Projects Mapped with POs and PSOs CAY 2022-23

2.2.3. C Process of monitoring and evaluation (5 /5)

A project coordinator is appointed by the Head of the department who is responsible for planning, scheduling and execution of all the activities related to the student Project work.

TimeLine	Task	Particulars
IV- I Sem		
12 th Week	Call for project batch	Batches are formed based on academic Performance up to III B. Tech II Sem by project Coordinator of the department.
14 th Week	Synopsis	Submitted project titles are reviewed by Project Review Committee (PRC).
IV- II Sem		
1 st Week	Guide Allotment	Guide is allotted based on areas of interest.
4 th Week	First Review	Students are instructed to submit requirement specification and give a PowerPoint presentation for

		the project. (Evaluation phase I by a team of faculty)
8 th Week	Second Review	Students are instructed to submit Design document of the project and give a Power Point presentation for the project. (Evaluation phase II By a team of faculty)
12 th Week	Final Demonstrat ion	Students are instructed to submit complete project report with university compliance and give a Power Point presentation for the project. (Evaluation phase III by a team of faculty)
14 th Week	Project Internal Marks Announcem ent	The marks for the project work are displayed and processed according to the university regulations.

Table2.2.3. c: Process of Monitoring and Evaluation of Project

Process of monitoring and evaluation

Process	Description of process
Continuous monitoring and evaluation	For the review of the project work, the student is required to give power point presentation. Project guide is required to monitor the progress of the project work being carried out regularly and to get evaluated.

Demonstration of project	The progress made by the students and the demonstration is evaluated by a committee consisting of senior faculty members of the department. The quality of the work is monitored by guide, Project Coordinator and Department committee.
Project Evaluation	Projects are evaluated for 60marks as internal assessment by the project review committee and for 140 marks as external assessment by an external examiner allotted by university.

Table2.2.3.: Rubrics for Project

As an example, 2022-23 data is given in the table below

Bat ch No.	Roll Number s	Name of the Guide	Title of the Project	Type (Applic ation, Produc t, Resear ch, Revie w)	Factors to which it is Covered (Environment, Safety, Ethics, Cost, Standards)	POs & PSOs to Which Mapped
1	19W51A 0502	Mrs. .B.J YOTHSN A	Stock Administrat ion	Review	Standards	PO1, PO2, PO3, PO5, PO6, PO9, PO10, PO11, PO12, PSO1 & PSO2
	19W51A 0531					
	20W55A 0503					
	19W51A 0511					
	19W51A 0519					
2	19W51A 0546	Mr.A.SRI NIVASAN	A Robust Reputation Manag	Resear ch	Standards	PO1, PO2, PO5, PO6, PO9,P1 2,
	19W51A 0526					
	19W51A					

	0530					PSO1 & PSO2
	19W51A 0503					
	19W51A 0508					
3	19W51A 0525	Dr. B LAXMIKA NTHA	Criminal Face Identification System	Applica tion	Standards	PO2,PO 3, PO5, PO6, PO7, PSO1,& PSO2
	19W51A 0543					
	19W51A 0555					
	19W51A 0505					
	19W51A 0501					
4	19W51A 0528	Dr. R.VASAN THSELVA KUMAR	Indoor Object Recognition by using Deep Learning	Resear ch	Standards	PO1,PO 2,PO3, PO5,PO 6, PO9,PO 10, PO12,P SO1& PSO2
	19W51A 0541					
	19W51A 0532					
	19W51A 0527					
	19W51A					

	0521					
5	19W51A 0561	Mrs. K.VIJAYL AKSHMI	Fake Review Deduction by Using Machine Learning	Review	Environments &Costs	PO2, PO5, PO6, P10,PS O1 & PSO2
	19W51A 0566					
	19W51A 0573					
	19W51A 0552					
	19W51A 0512					
6	19W51A 0514	Mrs. Y. BASANT HI	IOT Based Low cost Fire detection alarm system for safety of buildings	Resear ch	Standards& Cost	PO1, PO2, PO5, PO6, PO7, P10, PSO1 & PSO2
	19W51A 0557					
	19W51A 0559					
	19W51A 0551					
	19W51A 0560					
7	19W51A 0577	Dr. J VANITHA VANI	A Secure Information Hiding	Review	Standards	PO2, PO3,PO 4
	19W51A					

	0570		scheme based on Cryptography and Steganography techniques			PO5,&P SO2
	19W51A 0538					
	19W51A 0539					
	19W51A 0542					
8	19W51A 0575	Dr G SANKAR	Rapid Explosion of Cipher Text in cloud storage	Resear ch	Standards	PO1, PO3,PO 5, PO6 & PSO1
	19W51A 0582					
	19W51A 0568					
	19W51A 0509					
	19W51A 0579					
9	19W51A 0545	Dr. G KISHORE KUMAR	Anemia estimation for patient using a machine learning model.	Produc t	Environment & Cost	PO1, PO2, PO3, PO5, PO7, PO9, PO10, PO11,
	19W51A 0522					
	19W51A 0515					
	19W51A					

	0507					PSO1 & PSO2
	19W51A 0576					
10	19W51A 0586	Mr .M.VE REESH BABU	Traffic sign recognition by using deep learning	Review	Standards	PO2, PO3, PO4, PO5,& PSO1
	19W51A 0587					
	19W51A 0588					
	19W51A 0571					
	19W51A 0553					
11	19W51A 0569	Mr. D. SANJEEV A REDDY	Cricket match prediction by using Machine Learning Techniques	Review	Environments & Standards	PO5, PO7, PO10, PSO1 & PSO2
	19W51A 0550					
	19W51A 0567					
	20W55A 0502					
	19W51A 0580					
12	19W51A	Dr.	Detection	Produc	Safety &Cost	PO3,

	0517	R.VASAN THSELVA KUMAR	and prediction of cyber breaches using machine learning	t		PO5,PO 7, PO9, P11 &PSO1
	19W51A 0504					
	19W51A 0540					
	19W51A 0513					
	19W51A 0510					
13	19W51A 0578	Dr. E NAGARJ UNA	Frequent item set mining algorithm based on bit combinatio n	Applica tion	Standards & Cost	PO2, PO5, PO6, PO7, PO9, P11, PSO1 & PSO2
	19W51A 0556					
	19W51A 0548					
	19W51A 0581					
	19W51A 0574					
	19W51A 0529					
14	19W51A 0518		Dyanamic ID-Based	Resear ch	Standards & Cost	PO2, PO3,

	19W51A 0562	Mrs.V.HE MASREE	Anonymus Two factor Authenticat ed Key Exchange Protocol.			PO5, PO6, PO7, PO9, PSO1 & PSO2
	19W51A 0547					
	19W51A 0549					
	19W51A 0585					
15	19W51A 0536	Mrs.G.S. GOWTHA MI KUMARI	On screen evaluation of OMR sheet in colleges	Review	Standards	PO2, PO5, PO6, PO7, PO9 & PSO2
	19W51A 0516					
	19W51A 0537					
	19W51A 0520					
	19W51A 0544					
16	19W51A 0554	Mr. P. VISWANA THA REDDY	Heart disease prediction by using ML techniques	Resear ch	Ethics	PO2, PO3, PO5, PO7, PO8, P11, PSO1 &
	19W51A 0523					
	19W51A 0534					

	19W51A 0563					PSO2
	20W55A 0501					
17	19W51A 0584	Dr.G MANIKAN TA	A real time object detection in a clustered scene using point feature matching	Review	Standards	PO2, PO3, PO5, PO6, PO7, PO9, PSO1 & PSO2
	19W51A 0564					
	19W51A 0533					
	19W51A 0589					
	19W51A 0591					

Table2.2.3 Project Batches Process of Monitoring and Evaluation of Project

c. Process for Monitoring and Evaluation

Process for Continuous Monitoring of Project:

- Project students should meet their respective guide regularly and show their progress they have made in their project in that period. Students may feel free to meet the guide any time.
- The project guides will evaluate the report submitted by the students and help them to go with projectwork.
- Project guide will assess each student in team and make them work in right way.

- The evaluation process will be done by taking considerations of Quality of presentation, Real-time application of their work, Quality of project and the scope.
- The progress in the projects is also monitored by PRC by monthly reviews where students present their progress in the project through PPTs.

Steps to be followed in the Monitoring, Evaluation and Responsibility

Process	Description of steps	Responsibility
Preparing of project seminar schedules	Project seminar schedule will be prepared and informed to the students. Guidelines for the presentation of project seminar will be given.	PC
Continuous monitoring and evaluation	<p>For the review of the project work, the student is required to give two PowerPoint presentations. Project guide is required to monitor the progress of the project work being carried out regularly and to get evaluated.</p> <p>1st and 2nd reviews will be conducted and evaluated by Project Review Committee.</p> <p>Based on the nature and type of the projects, the evaluation will be done and the quality of the projects will be decided accordingly.</p>	PRC
Demonstration of project	At the beginning of the second semester, the students are ready to work on their project. The quality of the work is monitored on a fortnightly basis by a senior faculty member designated as a Project Coordinator along with project guide.	Guide

	Students make demonstrations of their work and quality of projects is evaluated by the Project Review Committee.	
Project Evaluation	An internal assessment by the project review committee is done for 60 marks and external assessment is based on final grades given by external examiner allotted by Board of Studies.	PRC

Table:2.2.3 Monitoring, Evaluation and Responsibility

Schedule to be followed in the Project Monitoring and Evaluation

SNo	Schedule	
1	Progress appraisal as per regular schedule	Every Week
2	Reviews 0th , 1st , 2nd	Dates notified to students
3	The students are briefed regarding Dept. Prescribed Format for Initial version of Project	Dates of submission notified to students.
4	Final version of Softcopy of project – ready for bound	To be viewed by guide
5	Submission of Project Report	
6	Display of marks after consolidation of reviews.	Notice board

Table :2.2.3 Project Monitoring and Evaluation

Evaluation scheme for Projects:

Internal evaluation for 60 marks is carried out in the project review 1, project review 2, day to day observation by the guide and average of the PRC members is taken.

The following attributes are concerned with the project title, project work, students' performances are considered by the PRC members, Guide and the Project Coordinator

S.No.	Attribute
1	Identifying the problem and understanding background topic
2	Literature survey
3	Specify aim of the project and objectives
4	Project methodology planning
5	Selection of Project
6	Abstract
7	Highlights of the project features
8	Percentage of Project Implementation
9	Contribution of candidate (each candidate of the batch and total batch)
10	Summary of the ultimate findings of project
11	Performance evaluation
12	Presentation Skills
13	Question and answers

Table: 2.2.3 Evaluation scheme for Projects

Final Assessment and Evaluation by the External Examiner appointed by Board of studies of the University

Process	Description of steps
Final assessment	Final assessment is carried out by an External senior faculty appointed by the Board of Studies of the University. Grades, Excellent, Very Good, Good, and Satisfactory are awarded to the student's Project.

Table: 2.2.3 final Assessment & Evolution

d. PROCESS TO ASSES INDIVIDUAL AND TEAM PERFORMANCE

60 marks of Project are evaluated for the following

The quality of the project is assessed by the Review committee after giving due consideration of the below points.

- i) Continuous Progress & Reporting
- ii) Project Review-1
- iii) Project Document (Dept. Prescribed Format)
- iv) Project Review-2

The individual and team performance is assessed by concerned guide of the project and PRC members during Review 1, Review 2 and also it is reflected in the grades given by the external examiner.

Project Attainment of a Batch and Project PO mapping of 2022-23 are shown below as an Example

Project Mapping with POs														
S.No	Name of the project	Project Guide	Outcomes											
			Po 1	Po 2	Po 3	Po 4	Po 5	Po 6	Po 7	Po 8	Po 9	Po 10	Po 11	Po 12
1	INDOOR OBJECT RECOGNITION BY USING DL	Dr. R.Vasanthselvakumar	√	√	√	√	√					√	√	
2	STOCK ADMINISTRATION FRAMEWORK BY USING DJANGO	B.Jyothisna	√	√	√	√	√		√		√	√		
3	HEART DISEAS	P. Viswana	√	√	√	√	√		√	√	√	√		

ES PREDIC TION BY USING ML TECHNI QUES	tha Reddy													
--	--------------	--	--	--	--	--	--	--	--	--	--	--	--	--

e. Quality of completed Projects/ Working Prototypes

Quality of the project is assessed in terms of nature and type of projects (application/ Product development/ research). The focus is given on key areas such as literature survey, problem definition, fabrication or software code, environment safety and society, ethical responsibility, project presentation, cost and project management, research publications, innovation etc.

The quality of the Project is assessed by the Review committee

Projects classification:

Projects are classified according to the below mentioned categories

- 1) Area of Application
- 2) Product Development/ Model or working prototype preparation
- 3) Design and software utilization
- 4) Research
- 5) Modifications and testing
- 6) Miniature prototype model and theoretical analysis
- 7) Environment
- 8) Industry oriented

Flow Diagram for the Quality Assessment of the project

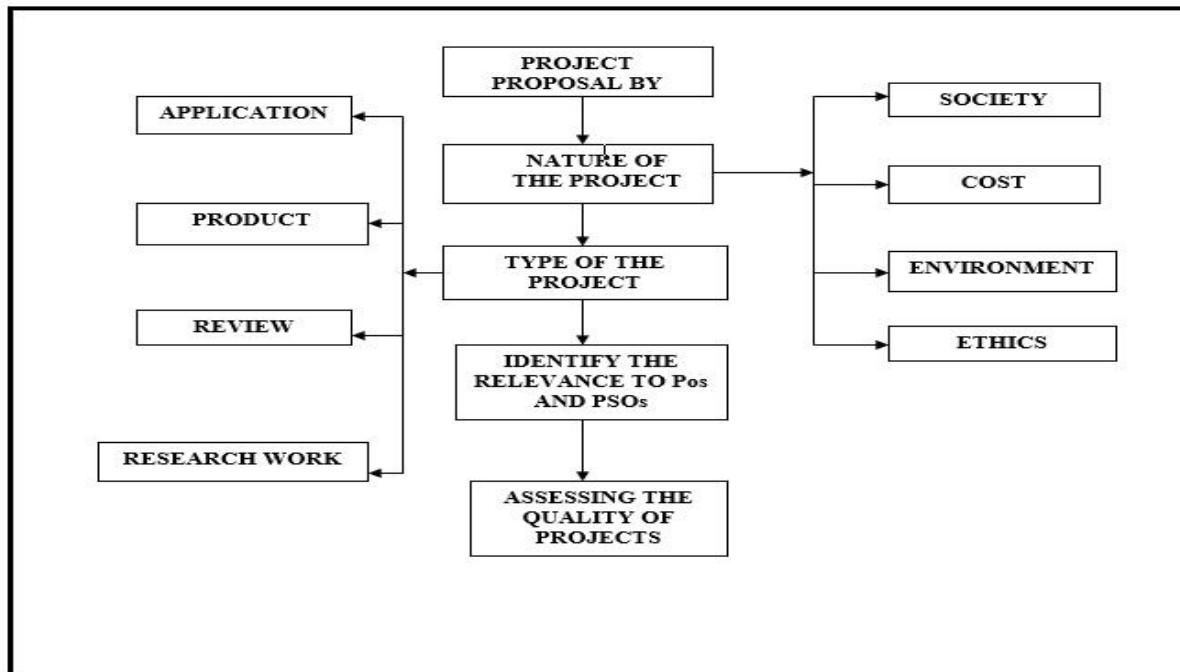


Fig 2.2.2 Flow Diagram for the Quality Assessment of the project

A list of some good projects given below for the A.Y: 2022-2023

S.No	Student Name	Name of the Title	Guide Name
1	G. NOWREEN	INDOORE OBJECT RECOGNATION BY USING DL	Dr. R. Vasanthselvakumar
	K. VYSHNAVI		
	G. AFSANA		
	G. NEELAKNTESWARA		
	D. SRI HARSHINI		
2	HARSHA VARDHAN	STOCK ADMINISTRATION	
	G.K. SASHIDHAR		

	REDDY	FRAME WORK BY USING DJANGO	Mr. B.Jyothsna
	S.M. RAFI		
	MAHESH KUMAR REDDY		
	C.PRAGATHI		
3	N. SRAVANI	HEART DECIESES PREDICTION BY USING ML TECHNIQUICS	P. Viswanatha Reddy
	D.BHARAGAVI		
	I.MAHITHA		
	P. ARUN KUMAR		
	D.ASHOK		

Table: A list of some good projects given below for the A.Y: 2022-2023

A list of some good projects given below for the A.Y: 2021-2022

S.NO	STUDENT NAME	NAME OF THE TITLE	GUIDE NAME
1	D.DHANUSHA	AI ENABLED APPLICATION TOWARDS INTELLIGENT TRANSPORTATION	MR. K. LAKSHMAIAH
	D.RAGINI		
	K. JYOTHSNA		
	D.NIVEDI ^T HA		
	G. APARNA		
2	M.SRUSHIT ^T HA	AN IMPROVED HANDWRITTEN	DR. R. VASANTHSELVAKUMAR
	N. VANI		

	N. BHAGYA LAKSHMI	DIGIT RECIGNITION USING DL	
	R. BHAVANA		
	G. SAI USHASH		
3	P. RUKSAR	E- COMMERCE APPLICATION FOR AGRICULTURE	MRS. B. JYOTHSNA
	K. GOVADHAN		
	P. SRAVYA		
	S. KHADARUNNISA		
	B. ARCHANA		

A list of some good projects given below for the A.Y: 2021-2022

A list of some good projects given below for the A.Y: 2020-21

S.No	Student Name	Name of the Title	Guide Name
1	S. SAZIYA SUKTHANA	SMART IRRIGATION SYSTEM USING IoT	Dr. V Senthil Murugan
	P.REDDI DEEPA		
	V. VANAJAMMA		
	T.ARSHIYA		
	S.BAHEER AHAMMAED		
2	R. DEEPA	IMAGE RESTORATION	Dr. R.

	R. GEETHA	USING VARIOUS FILTERS	Vasanthselvakumar
	P. MAMATHA		
	T. CHETHAN		
	V.REDDI SEKHAR REDDY		
3	P.IFTHAKHANAM	ENCODED POLIMORPHIC ASPECTS OF CLUSTERING	Mrs. B. Jyothsna
	S. AYESHA		
	S.AFRIN		
	R.S MOHAMMAD ASRAR		
	S. MOHHAMED PARVEEZ		

2.2.4. Initiatives related to industry interaction (15/15)

2.2.4.1. Initiatives for industry interaction

The interaction between Technical Institutions and industry is essential to improve the quality of students, which leads to the success of the Institution. The department takes initiative towards interaction with various Computer Science and Engineering related industries. The persons from reputed industries are invited to share their experience. This will have great impact on the students, in understanding the new technologies being adopted by industries which directly help the students in placements.

The following schemes have been undertaken for Institute-Industry Interaction

- Organizing workshops, seminars by Industry Experts.

- Providing industrial training and other inputs to teaching-learning processes so as to develop awareness about the job functions in the industry among students.
- Bringing the Industries and Institutes closer by making Memorandum of Understandings (MOU)
- Participation of experts from industry in curriculum development
- Arranging visits for both faculty/students to various industries
- Engineers from various industry to deliver lectures
- Internship for students.
- Projects work in industries under joint guidance of the faculty and experts from industry

The Viswam Engineering College has signed (MOUs) Memorandum of Understanding with the following industries

S. No.	Name of Organization	Location
1	Sri Vency Technologies	Tirupathi
2	Sorting Hat technologies Private Limited	Bangalore
3	Sagameswara electricals	Madanapalli
4	Takeoff projects	Tirupathi
5	PALS	Hyderabad

Table :2.2.4.1 a. List of MOUs with locations

LIST OF MOU'S

S.No	Organization With Which MOU is Signed	Name of the Institution/Industry/Corporate house	Year of signing MOU	Duration	Location	PO's met
1	Industry Speaks,iioWAH! Hackathons, Summer Internship,IITM Research Park Visit,Lab to Market Activities	PALS	2023	Indefinite	Chennai	PO1,PO2,PO3,PO4, PO5,PO12,PSO1,PSO2
2	Campaign Setup	College Dhekho	2023	1 year	Gurgaon	PO1,PO2,PO3,PO4, PO5,PO12,PSO1,PSO2
3	Branding and lead generation Campaign	College Dunia	2023	I Year	New Delhi	PO1,PO2,PO3,PO4, PO5,PO12,PSO1,PSO2
4	Trainings, Internships,Projects,Workshops, FDPs,Seminars	Sri Vency Technologies	2023	3 years	Tirupathi	PO1,PO2,PO3,PO4, PO5,PO12,PSO1,PSO2

5	Research and development, Training, Service and maintenance, Placements	Garuda Aerospace PvtLtd	2022	1 year	Chennai	PO1,PO2,PO3,PO4, PO5,PO12,PSO1,PSO2
6	Internships, Industrial Visits	Sangameswara Electricals	2022	Indefinite	Madanapalli	PO1,PO2,PO3,PO4, PO5,PO12,PSO1,PSO2
7	Promote talent pool of young students, Acquire new and relevant competencies, more employable	Edify Educational Services Pvt Ltd	2021	Indefinite	Hyderabad	PO1,PO2,PO3,PO4, PO5,PO12,PSO1,PSO2
8	Joint Research Activities, Technology Exchange, Organise symposia, Seminars and FDP	RJS International Multidisciplinary Research Foundation	2021	Indefinite	Bangalore	PO1,PO2,PO3,PO4, PO5,PO12,PSO1,PSO2

Table :2.2.4.1 b List of MOUs with locations and Validity, Relevant POs

2.2.4.2 Implementation**2.2.4.2.1 List of Programs Conducted by Experts from Industry 2022 -2023**

S.No	Event	Topic	Resource	Designation & Organization	No. of participation	Date	Relevance to POs & PSOs
1	Workshop	Python with Data Science	Dr. T. Palani kumar	Team lead & ITC infotech solution	75	9-1-23 To 11-1-23	PO1, PO 2, PO 3, PO 4, PO 5, PO 6, PO 8, PO,PSO1
2	Workshop	Artificial Intelligence	Dr. A. Arunachalam	Professor & Bharath University, Chennai	65	15-12-22 TO 16-12-22	PO1, PO 2, PO 3, PO 4, PO5,PO 12, PSO1
3	Guest Lecturer	Design analysis of Algorithms	Mr. P. Gopinath,	Associate Professor & Narayanadri College of Engineering	67	4-08-22	PO1, PO 2, PO 3, PO 4 , PO 9, PO 10, PO PO 12,PSO1

Table:2.2.402 c List of Programs Conducted by Experts from Industry 2022 -2023

List of Programs Conducted by Experts from Industry 2021-22

S. No	Event	Topic	Resource	Designation & Organization	No. of participation	Date	Relevance to POs & PSOs
1	Guest Lecture	Advanced Data Structures & Algorithms	Mr. S. Chiranjeevi	Associate Professor & VECM	65	20-04-22	PO1,2,3,4,5,6,8,9, 10,11, 12, PSO1
2	Major Projects	Android Applications, JAVA, DMDW	Mr. A. Praveen	Senior consultant & Takeoff Projects	75	10-2-22 to 11-02-22	PO1,2,3,4,5,6,8,9, 10,11, 12, PSO1
3	Major Projects	Android Applications, JAVA, DMDW	Mrs. I. Devika	Project Developer & Takeoff Projects	80	17-12-21 to 18-12-21	PO1,2,3,4,5,6,8,9, 10,11, 12, PSO1

Table:2.2.402 d List of Programs Conducted by Experts from Industry 2021 -2022

2.2.4.1. List of Programs Conducted by Experts from Industry 2020-21

S. No	Event	Topic	Resource	Designation & Organization	No. of participation	Date	Relevance to POs & PSOs
1	Major Projects	Android Applications, JAVA, DMDW	Mrs.P.Vijaya kumari	Senior consultant & Takeoff Projects	80	10-01-20 to 12-01-20	PO1,2,3,4,5,6,8,9,10,11,12, PSO1
2	Major Projects	Android Applications, JAVA, DMDW	Mr.K.Ramappa	Project Trainer & Takeoff Projects	90	16-03-20 to 17-01-20	PO1,2,3,4,5,6,8,9,10,11,12, PSO1

Table:2.2.402 e List of Programs Conducted by Experts from Industry 2020 -2021

2.2.4.3 Impact Analysis

- The knowledge gained by the students in the workshops and seminars will be implemented in their final year projects.
- Students acquired the concepts beyond curriculum to improve their technical skills.
- Students gained from this exposure to incorporate an entrepreneurial spirit and project-based on thinking.

2.2.5. Initiatives related to industry internship/summer training (15)

Industry institute interaction cell (IIIC) enhances the relationship between the institute and industry. This cell identifies the industrial expectation and promotes institutional preparation for meeting industrial needs by facilitating

various industrial internship/training programmers.

2.2.5.1 Industrial Visits:

Theoretical knowledge is not enough for making a good professional career. With an aim to go beyond academics, college should provide industrial visits student to get a practical perspective on real time industrial activities. The department will focus on planning the industrial visits as a part of curriculum. The main aim of the industrial visit is to provide an exposure to students about practical working environment. Industrial visits provide an excellent opportunity for the students to interact with industries and know more about industrial environment.

Industrial visit summary

Academic Year	Industries visited
2022-23	2
2021-22	1
2020-21	1

Table:2.2.5.1 a. Industrial Visit Summary

Academic Year: 2022-2023

S. No	Date	Name of the Industry	No of Students participated	Skills Acquired
1	06-12-2023	CODE BINDING TECHNOLO	49	students offer an excellent opportunity to bridge the gap between theoretical knowledge and practical industry

		GIES		applications. This program aims to provide students with valuable insights into the dynamic world of computer science, explore real-world scenarios, and gain exposure to the latest technologies and trends
2	14-10-2023	MISSION INFINITE (Orientation Program)	47	Orientation programme are aimed at familiarizing the students to an unknown campus environment, its faculties and infrastructure. It enables them to make essential connection with studies and develop network among other peers.

Table:2.2.5.1 b. Industrial Visit Academic Year: 2022-2023

Academic Year: 2021-22

S. No	Date of Visit	Name of Industry	No of Students participated	Skills Acquired
1	12-12-2021	KAYNES TECHNOLOGIES INDIA LIMITED	49	students offer an excellent opportunity to bridge the gap between theoretical knowledge and practical industry

				applications. This program aims to provide students with valuable insights into the dynamic world of computer science & Engineering
--	--	--	--	---

Table:2.2.5.1 c. Industrial Visit Academic Year: 2021-2022

Academic Year: 2020-21

S. No	Date of Visit	Name of Industry	No of Students participated	Skills Acquired
1	20-12-2020	KAYNES TECHNOLOGIES INDIA LIMITED	40	students offer an excellent opportunity to bridge the gap between theoretical knowledge and practical industry applications. This program aims to provide students with valuable insights into the dynamic world of computer science & Engineering

Table:2.2.5.1.d. Industrial Visit Academic Year: 2020-2021

Industrial Visit Photographs



**CODE BIND
TECHNOLOGIES
07-12-2023**

**CODE BIND TECHNOLOGIES
07-12-2023**



**CODE BIND
TECHNOLOGIES
07-12-2023**

**CODE BIND TECHNOLOGIES
07-12-2023**

	
<p align="center">MISSION INFINITE (Orientation Program) 14-09-2023</p>	<p align="center">MISSION INFINITE (Orientation Program) 14-09-2023</p>
	
<p align="center">KAYNES TECHNOLOGIES INDIA LIMITED 20-12-2020</p>	<p align="center">KAYNES TECHNOLOGIES INDIA LIMITED 20-12-2020</p>

Table:2.2.5.1 e. Industrial Visits

2.2.5.2 Internships:

The students are encouraged to take up internship programs, which are industrial oriented during their semester break. Faculty members give their guidelines and suggestions to take up internship. They also help the students by interacting with the industrial experts, provide students with the required documents and extend other necessary supports. The IIC coordinator from the department constantly interacts with industry persons and requests them to provide necessary guidelines and supports for the interns.

Summary of Internships for the Academic year 2023-24:

S.No	Academic Year	Total No. of Students Taken Internship	Internship Taken at	No. of Students participated	Duration of Internship
1	23-2024	99	KODACY	4	8 weeks
			IBM	52	6 weeks
			KODENEST	15	8 weeks
			ACENAR	2	6 weeks
			PANTECH E LEARNING	15	4 weeks
			DEVTOWN	4	6 weeks
			SIMPILEARN	3	6 weeks
			MINDLUSTER	3	6 weeks
			GREAT LEARINING	1	6 weeks
			Total	99	

Table :2.2.5.2 a. Summary of Internships for the Academic year 2023-24

Summary of Internships for the Academic year 2021-22:

S.No	Academic Year	Total No. of Students Taken Internship	Internship Taken at	No. of Students participated	Duration of Internship
1	2022-23	84	SKILL UP	80	6 weeks
			GREAT LEARNING ACADEMY	4	6 weeks

Table :2.2.5.2 b. Summary of Internships for the Academic year 2021-22

Summary of Internships for the Academic year 2020-21:

S.No	Academic Year	Total No. of Students Taken Internship	Internship Taken at	No. of Students participated	Duration of Internship
1	2021-22	16	SKILL UP	9	32h
			GREAT LEARNING ACADEMY	7	32h

Table :2.2.5.2 c. Summary of Internships for the Academic year 2020-21

Internships by the students for A.Y 2023-24

Sl.No	H.T.NO	Name of the Course	Duration	Name of Firm	PO'S Relevance
1	20W51A0501	PYTHON	8 weeks	KODACY	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
2	20W51A0503	Front End Development	6 weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
3	20W51A0504	Full Stack Development	8 weeks	kodnest	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
4	20W51A0505	Artificial Intelligence and Machine Learning	6 weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12,

					PSO2
5	20W51A0506	Full Stack Development	8 weeks	kodnest	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
6	20W51A0507	Data analyst	6 weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
7	20W51A0508	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,O12, PSO2
8	20W51A0509	Cyber Security	6 weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
9	20W51A0510	Python Programming	6 weeks	pantech E learning	PO1, PO2, PO3, PO4,

					PO5, PO8, PO9, PO10,PO12, PSO1
10	20W51A0511	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
11	20W51A0512	Python Programming	6weeks	kodacy	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
12	20W51A0513	Cyber Security	6 weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
13	20W51A0514	Artificial Intelligence and Machine Learning	6 weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2

14	20W51A0515	Cyber Security	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
15	20W51A0516	Artificial Intelligence and Machine Learning	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
16	20W51A0517	Artificial Intelligence and Machine Learning	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
17	20W51A0518	Full Stack Development	8weeks	kodnest	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
18	20W51A0519	Python Programming	6weeks	pantech E learning	PO1, PO2, PO3, PO4, PO5, PO8, PO9,

					PO10,PO12, PSO1
19	20W51A0520	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
20	20W51A0521	Cyber Security	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
21	20W51A0522	Java programming for beginners	8weeks	mind luster	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,O12, PSO1
22	20W51A0523	Full Stack Development	8 weeks	kodnest	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
23	20W51A0524	Cyber Security	6weeks	IBM	PO1, PO2, PO3, PO4,

					PO5, PO8, PO9, PO10,PO12, PSO3
24	20W51A0525	Cyber Security	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
25	20W51A0526	Artificial Intelligence and Machine Learning	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
26	20W51A0527	Artificial Intelligence and Machine Learning	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
27	20W51A0529	Full Stack Development	8weeks	kodnest	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1

28	20W51A0530	Full Stack Development	8 weeks	kodnest	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
29	20W51A0531	Artificial Intelligence and Machine Learning	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
30	20W51A0532	Front End Development	8weeks	devtown	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
31	20W51A0533	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
32	20W51A0534	Python Programming	6weeks	pantech E learning	PO1, PO2, PO3, PO4, PO5, PO8, PO9,

					PO10,PO12, PSO3
33	20W51A0535	Cyber Security	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
34	20W51A0536	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
35	20W51A0537	Programming with Python	6weeks	Simplilearn	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
36	20W51A0538	Programming with Python	6weeks	Internshala Trainings	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
37	20W51A0539	Artificial Intelligence	6weeks	IBM	PO1, PO2, PO3, PO4,

		and Machine Learning			PO5, PO8, PO9, PO10,PO12, PSO2
38	20W51A0540	Cyber Security	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
39	20W51A0541	Cyber Security	6weeks	GreatLearning	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
40	20W51A0542	Full Stack Development	8 weeks	kodnest	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
41	20W51A0543	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3

42	20W51A0545	Full Stack Development	8 weeks	kodnest	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
43	20W51A0546	Java Full Stack Development	8weeks	kodnest	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
44	20W51A0547	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
45	20W51A0548	Data Analyst	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
46	20W51A0549	Python Programming	6weeks	kodacy	PO1, PO2, PO3, PO4, PO5, PO8, PO9,

					PO10,PO12, PSO2
47	20W51A0550	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
48	20W51A0551	Python Programming	6weeks	pantech E learning	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
49	20W51A0552	Cyber Security	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
50	20W51A0553	Cyber Security	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
51	20W51A0555	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4,

					PO5, PO8, PO9, PO10,PO12, PSO1
52	20W51A0556	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
53	20W51A0557	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
54	20W51A0558	Python Programming	6weeks	pantech E learning	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
55	20W51A0559	Python Programming	6weeks	pantech E learning	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2

56	20W51A0560	Cyber Security	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
57	20W51A0561	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO12, PSO1
58	20W51A0562	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
59	20W51A0563	Python Programming	6weeks	pantech E learning	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
60	20W51A0564	Cyber Security	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12,

					PSO1
61	20W51A0565	Python Programming	6weeks	kodacy	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
62	20W51A0567	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
63	20W51A0568	Full Stack Development	8weeks	devtown	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
64	20W51A0569	Web Development	8weeks	Internshala Trainings	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
65	20W51A0571	Full Stack Development	8weeks	kodnest	PO1, PO2, PO3, PO4,

					PO5, PO8, PO9, PO10,PO12, PSO3
66	20W51A0572	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
67	20W51A0573	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
68	20W51A0574	Artificial Intelligence and Machine Learning	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
69	20W51A0575	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1

70	20W51A0577	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, O12, PSO2
71	20W51A0578	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO12, PSO3
72	20W51A0580	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO12, PSO1
73	20W51A0581	Artificial Intelligence and Machine Learning	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO12, PSO2
74	20W51A0582	Core Java	6weeks	Internshala Trainings	PO1, PO2, PO3, PO4, PO5, PO8, PO9,

					PO10,PO12, PSO3
75	20W51A0583	Python Programming	6weeks	Simplilearn	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
76	20W51A0584	Programming with Python	6weeks	simplilearn	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
77	20W51A0585	Artificial Intelligence and Machine Learning	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
78	20W51A0586	Data Analyst	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
79	20W51A0587	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4,

					PO5, PO8, PO9, PO10,PO12, PSO2
80	20W51A0588	Java programming	4weeks	pantech E learning	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
81	20W51A0589	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
82	20W51A0590	Artificial Intelligence and Machine Learning	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
83	20W51A0591	Android App Development	8weeks	Corizo	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3

84	20W51A0592	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
85	20W51A0593	Python Programming	4weeks	InternPe	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10, PO12, PSO2
86	20W51A0594	Web Development	8weeks	Internshala Trainings	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
87	20W51A0596	Artificial Intelligence and Machine Learning	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
88	20W51A0597	Artificial Intelligence and Machine Learning	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12,

					PSO2
89	20W51A0598	Artificial Intelligence and Machine Learning	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
90	20W51A0599	Internet of Things	4weeks	AcenAAR Technologies	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
91	20W51A05A0	Artificial Intelligence and Machine Learning	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
92	20W51A05A1	Full Stack Development	8 weeks	kodnest	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
93	20W51A05A3	Full Stack Development	8 weeks	kodnest	PO1, PO2, PO3, PO4,

					PO5, PO8, PO9, PO10, PO12, PSO1
94	20W51A05A4	Data analyst	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
95	20W51A05A5	Cyber Security	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO3
96	20W51A05A6	Data analyst	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1
97	20W51A05A7	Front End Development	6weeks	IBM	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO2
98	20W51A05A8	Data analyst	6weeks	IBM	PO1, PO2, PO3, PO4,

					PO5, PO8, PO9, PO10,PO12, PSO3
99	21W55A0501	Internet of Things	4weeks	AcenAAr Technologies	PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10,PO12, PSO1

Table :2.2.5.2 d. Internships by the students for A.Y 2023-24

Internships by the students for A.Y 2022-23

S.No	H.T.No	Name of Internship/ Industrial Training/ Research Projects chosen	Name of the Course	Durati on	PO's Relevance
1	19W51A0501	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1,PO2,PO3,PO5 ,PSO1,PSO2
2	19W51A0502	SkillUp	Introduc tion to Cloud	2 weeks	PO1,PO2,PO3,PO5 ,PSO1,PSO2

			Computing		
3	19W51A0503	SkillUp	Java Certification Course	2 weeks	PO1,PO2,PO3,PO7,PSO1,PSO3
4	19W51A0504	SkillUp	Getting Started with AWS	2 weeks	PO1,PO2,PO3,PO5,PSO1
5	19W51A0505	SkillUp	Introduction to Cloud Computing	2 weeks	PO1,PO2,PO3,PO5,PSO1,PSO2
6	19W51A0507	SkillUp	Introduction to Cyber Security	2 weeks	PO1,PO2,PO3,PO5,PSO1
7	19W51A0508	SkillUp	Machine Learning	2 weeks	PO1,PO2,PO3,PO5,PSO1,PSO2
8	19W51A0509	SkillUp	Introduction to Cloud Computing	2 weeks	PO1,PO2,PO3,PO5,PSO1,PSO2

9	19W51A05 10	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1,PO2,PO3,PO5 ,PS01,PSO2
10	19W51A05 11	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1,PO2,PO3,PO5 ,PS01,PSO2
11	19W51A05 13	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1,PO2,PO3,PO5 ,PS01,PSO2
12	19W51A05 14	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1,PO2,PO3,PO5 ,PS01,PSO2
13	19W51A05 15	SkillUp	Introduc tion to Cyber Security	2 weeks	PO1,PO2,PO3,PO5 ,PSO1
14	19W51A05 16	SkillUp	Introduc tion to Cloud Computi	2 weeks	PO1,PO2,PO3,PO5 ,PS01,PSO2

			ng		
15	19W51A05 17	SkillUp	Machine Learning	2 weeks	PO1,PO2,PO3,PO5,PSO1.PSO2
16	19W51A05 18	SkillUp	Python for Beginners	2 weeks	PO1, PO2,PO3,PO5,PSO1,PSO2
17	19W51A05 19	SkillUp	Java Certification Course	2 weeks	PO1, PO2,PO3,PO5,PSO1,PSO2
18	19W51A05 20	SkillUp	Introduction to Cloud Computing	2 weeks	PO1, PO2,PO3,PO5,PSO1,PSO2
19	19W51A05 21	SkillUp	Introduction to Cloud Computing	2 weeks	PO1, PO2,PO3,PO5,PSO1,PSO2
20	19W51A05 22	SkillUp	Introduction to Cyber Security	2 weeks	PO1, PO2,PO3,PO5,PSO1,PSO2
21	19W51A05	SkillUp	Introduc	2	PO1,

	23		tion to Cloud Computi ng	weeks	PO2,PO3,PO5,PSO 1,PSO2
22	19W51A05 25	SkillUp	Data Science with Python	2 weeks	PO1, PO2,PO3,PO5
23	19W51A05 26	SkillUp	Java Certificat ion Course	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
24	19W51A05 27	SkillUp	Machine Learning	2 weeks	PO1, PO2,PO3,PO5,PSO 2,PSO2
25	19W51A05 28	SkillUp	Java Certificat ion Course	2 weeks	PO1,PO2,PO3,PO5 ,PS01,PSO2
26	19W51A05 29	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1,PO2,PO3,PO5 ,PS01,PSO2
27	19W51A05 30	SkillUp	Introduc tion to IOT	2 weeks	PO1, PO2,PO3,PO5,PSO 2,PSO2

28	19W51A05 31	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1,PO2,PO3,PO5 ,PS01,PSO2
29	19W51A05 32	SkillUp	Machine Learning	2 weeks	PO1, PO2,PO3,PO5,PSO 2,PSO2
30	19W51A05 33	Great Learning Academy	Python for DataScie nce	2 weeks	PO1, PO2,PO3,PO5,PSO 2,PSO2
31	19W51A05 34	SkillUp	Data Science with Python	2 weeks	PO1, PO2,PO3,PO5,PSO 2,PSO2
32	19W51A05 36	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
33	19W51A05 37	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
34	19W51A05	SkillUp	Java	2	PO1,

	38		Certification Course	weeks	PO2,PO3,PO5,PSO1,PSO2
35	19W51A05 39	Great Learning Academy	Data Science Foundations	2 weeks	PO1, PO2,PO3,PO5,PSO1
36	19W51A05 40	SkillUp	Introduction to Cloud Computing	2 weeks	PO1, PO2,PO3,PO5,PSO1,PSO2
37	19W51A05 41	SkillUp	Getting Started with AWS	2 weeks	PO1, PO2,PO3,PO5,PSO1
38	19W51A05 42	SkillUp	Introduction to Cloud Computing	2 weeks	PO1, PO2,PO3,PO5,PSO1,PSO2
39	19W51A05 43	Great Learning Academy	Introduction to Deep Learning	2 weeks	PO1, PO2,PO3,PO5,PSO1
40	19W51A05 44	SkillUp	Machine Learning	2 weeks	PO1, PO2,PO3,PO5,PSO

					2,PSO2
41	19W51A05 45	SkillUp	Introduc tion to Cyber Security	2 weeks	PO1, PO2,PO3,PO6,PO7
42	19W51A05 46	SkillUp	Machine Learning	2 weeks	PO1, PO2,PO3,PO5,PSO 2,PSO2
43	19W51A05 47	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
44	19W51A05 49	Great Learning Academy	Introduc tion to Machine Learning In AWS	2 weeks	PO1, PO2,PO3,PO5
45	19W51A05 50	SkillUp	Python for Beginner s	2 weeks	PO1, PO2,PO3,PO5
46	19W51A05 51	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2

47	19W51A05 52	Cursa	HTML and CSS	2 weeks	PO1, PO2,PO3,PO5
48	19W51A05 53	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
49	19W51A05 54	SkillUp	Python for Beginner s	2 weeks	PO1, PO2,PO3,PO5
50	19W51A05 55	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
51	19W51A05 56	SkillUp	Java Certificat ion Course	2 weeks	PO1, PO2,PO3,PO5
52	19W51A05 57	SkillUp	Introduc tion to Artificial Intelligen ce	2 weeks	PO1, PO2,PO3,PO5
53	19W51A05 59	SkillUp	Introduc tion to	2 weeks	PO1, PO2,PO3,PO5

			Front End Develop ment		
54	19W51A05 60	Great Learning Academy	Python for Machine Learning	2 weeks	PO1, PO2,PO3,PO5
55	19W51A05 61	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
56	19W51A05 62	SkillUp	Java Script fpr Beginner s	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
57	19W51A05 63	SkillUp	Java Certificat ion Course	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
58	19W51A05 64	SkillUp	Java Certificat ion Course	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
59	19W51A05	Cursa	Web	2	PO1,

	66		Develop ment	weeks	PO2,PO3,PO5,PSO 21,PSO2
60	19W51A05 67	SkillUp	Data Science with Python	2 weeks	PO1, PO2,PO3,PO5,PSO 2
61	19W51A05 68	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
62	19W51A05 69	SkillUp	Machine Learning	2 weeks	PO1, PO2,PO3,PO5,PSO 1
63	19W51A05 70	SkillUp	Introduc tion to SQL	2 weeks	PO1, PO2,PO3,PO4,PO5 ,PSO1
64	19W51A05 71	SkillUp	Machine Learning	2 weeks	PO1, PO2,PO3, PO6,PO7,PSO1
65	19W51A05 73	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
66	19W51A05 74	SkillUp	Introduc tion to Cloud	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2

			Computing		
67	19W51A05 75	Great Learning Academy	FireWall	2 weeks	PO1, PO4,PO7,PO8,PSO3
68	19W51A05 76	SkillUp	Introduction to Cloud Computing	2 weeks	PO1, PO2,PO3,PO5,PSO1,PSO2
69	19W51A05 77	SkillUp	Getting Started with Full Stack Java Development	2 weeks	PO1, PO2,PO3,PO5,PSO3
70	19W51A05 78	SkillUp	Python for Beginners	2 weeks	PO1, PO2,PO3,PO5,PSO3
71	19W51A05 79	SkillUp	Introduction to Cloud Computing	2 weeks	PO1, PO2,PO3,PO5,PSO1,PSO2
72	19W51A05	SkillUp	Introduc	2	PO1,

	80		tion to Cloud Computi ng	weeks	PO2,PO3,PO5,PS0 1,PSO2
73	19W51A05 81	SkillUp	Java Certificat ion Course	2 weeks	PO1, PO2,PO3,PO5
74	19W51A05 82	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PS0 1,PSO2
75	19W51A05 84	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PS0 1,PSO2
76	19W51A05 85	SkillUp	Introduc tion to Cyber Security	2 weeks	PO1, PO2,PO3,PO5
77	19W51A05 86	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PS0 1,PSO2
78	19W51A05 87	SkillUp	Introduc tion to Cloud Computi	2 weeks	PO1, PO2,PO3,PO5,PS0 1,PSO2

			ng		
79	19W51A05 88	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
80	19W51A05 89	SkillUp	Java Certificat ion Course	2 weeks	PO1, PO2,PO3,PO5
81	19W51A05 91	SkillUp	Introduc tion to Cyber Security	2 weeks	PO1, PO2,PO3,PO6,PO7
82	20W55A05 01	SkillUp	Introduc tion to Artificial Intelligen ce	2 weeks	PO1, PO2,PO3,PO5
83	20W55A05 02	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2
84	20W55A05 03	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PSO 1,PSO2

Table :2.2.5.2 e. Internships by the students for A.Y 2022-23

Internships by the students for A.Y 2021-22

S.No	H.T.No	Name of Internship/Industrial Training/Research Projects chosen	Name of the Course	Duration	PO's Relevance
1	18W51A0501	SkillUp	Introduction to Cloud Computing	2 weeks	PO1,PO2,PO3,PO5,PS01,PSO2
2	18W51A0502	SkillUp	Introduction to Cloud Computing	2 weeks	PO1,PO2,PO3,PO5,PS01,PSO2
3	18W51A0503	Great Learning Academy	Java Certification Course	2 weeks	PO1,PO2,PO3,PO7,PS01,PSO3
4	18W51A0504	SkillUp	Getting Started with AWS	2 weeks	PO1,PO2,PO3,PO5,PS01

5	18W51A05 05	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1,PO2,PO3,PO5,PS 01,PSO2
6	18W51A05 06	Great Learning Academy	Introduc tion to Cyber Security	2 weeks	PO1, PO2,PO3,PO5,PSO1
7	18W51A05 07	Great Learning Academy	Machine Learnin g	2 weeks	PO1, PO2,PO3,PO5,PSO1,P SO2
8	18W51A05 08	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1, PO2,PO3,PO5,PS01,P SO2
9	18W51A05 09	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1,PO2,PO3,PO5,PS 01,PSO2
10	18W51A05 10	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1,PO2,PO3,PO5,PS 01,PSO2


11	18W51A05 11	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1,PO2,PO3,PO5,PS 01,PSO2
12	18W51A05 12	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1,PO2,PO3,PO5,PS 01,PSO2
13	18W51A05 13	Great Learning Academy	Introduc tion to Cyber Security	2 weeks	PO1,PO2,PO3,PO5,PS O1
14	18W51A05 14	SkillUp	Introduc tion to Cloud Computi ng	2 weeks	PO1,PO2,PO3,PO5,PS 01,PSO2
15	18W51A05 15	Great Learning Academy	Machine Learnin g	2 weeks	PO1,PO2,PO3,PO5,PS O1.PSO2
16	18W51A05 16	Great Learning Academy	Python for Beginne rs	2 weeks	PO1, PO2, PO3, PO5, PSO1, PSO2

Table :2.2.5.2 f. Internships by the students for A.Y 2021-22

2.2.5.3 Impact Analysis

- Students could analyze the real time problems and develop prototypes as part of their project work.
- Dissemination of knowledge among the peers.
- Exposure through student network and improvement in communication skills
- Integration of best practices in teaching and learning
- Internships serves as culminating focal point, encouraging students to tie knowledge, skills and abilities.
- Students to strength with their conceptual understanding and reflect usage in novel Domain.
- Students will get professional ethics, since they work in team and with eminent personalities in the industry.
- Students can gain knowledge & Proficiency in specialized software packages and computer programming useful for the analysis/design of electronic engineering systems.
- This program fills the gap between academics and industry.

2.2.5.4 Sample feedback form:



VISWAM ENGINEERING COLLEGE
 APPROVED BY AICTE, NEW DELHI & AFFILIATED TO JNTUA,
 ANANTHAPURAMU
 AN ISO 9001-2015 CERTIFIED INSTITUTION
 MADANAPALLE - 517 325, CHITTOOR DT., A.P.

DEPT. OF COMPUTER SCIENCE & ENGINEERING
 Date: 14-SEP-2022

FEEDBACK ON INTERNSHIP IN
SKILLUP

Name of the student: M. Lohith class: B.Tech A.Y & SEM: 22-23
 Title: Introduction to the Cloud Computing
 Organization & place: Skill up

S.No	Question	Excellent 5	Very Good 4	Good 3	Satisfactory 1
1	How do you rate the facilities and guidance provided at time of undergoing internship in SKILLUP the organization	✓			
2	How do you rate the internship in SKILLUP in relation to the real-life applications?		✓		
3	To what extent, the internship in SKILLUP fills the gap between theory and applications	✓			
4	Relevance of the internship in SKILLUP to meet the job requirement			✓	
5	How do you rate the internship in SKILLUP in relation to the technological improvements?	✓			
6	How do you rate the internship SKILLUP towards the practical exposure?			✓	
7	Rate simulation of the internship SKILLUP towards higher education	✓			
8	Overall rating		✓		

M. Lohith

Feedback Analysis:**Industrial Internship Feedback Analysis:**

S. No	Parameter	'3' - High	'2' - Medium	'1' - Low
1	Does the internship experience is helpful? in understanding the academic concepts	75%	20%	5%
2	Are you given adequate training (or) explanation of project	82%	16%	2%
3	The work you performed was challenging and stimulating	76%	14%	10%
4	Whether it provided regular and helpful assessment of your performance and how to enhance it	76%	18%	6%
5	Whether ample opportunities for learning are available	81%	10%	9%
6	Had a good working relationship	74%	24%	2%

	industry with Employees			
7	Whether your supervisor was available and accessible when you had questions/concerns	74%	24%	2%
8	Are you provided levels of responsibility consistent with your ability and was given additional responsibility as your experience increased	68%	22%	10%
9	Whether Internship gave you a realistic preview of the career field	78%	20%	2%

Table 2.2.5.2.g Industrial Internship Feedback Analysis

Total number feedback are 96.

Action taken:

- Real-time experience with leading-edge technologies.
- New skills are added to their knowledge base while gaining confidence in their abilities.
- They get an opportunity to work with a team in the industry.
- They acquire professional ethics.
- Students are trained by well experienced industry people so that they gain knowledge in terms of
Working on modern tools help in understanding the applications.

Criterion 3	Course Outcomes and Program Outcomes	120/120
--------------------	---	----------------

3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20/20)

PSO1	Apply standard Software Engineering Practise and strategies in real-time software project development using open-source programming environment or commercial environment to deliver quality product for the organization success
PSO2	Design and develop computer programs /computer-based systems in the areas related to algorithms, networking, web design, cloud computing ,IoT and data analytics of varying complexity
PSO3	Acquaint with the contemporary trends in industrial/research settings and thereby innovate novel solutions to existing problems

3.1.1 Course Outcomes (COs)

(SAR should include course outcomes of one course from each Semester of study, however, should be prepared for all courses and made available as evidence, if asked)

CourseName-C202 (Database Management Systems) Course Year: 2020-2021

After completion of the course, the students are able to,

C202.1	Summarize foundational ideas in database management systems.
C202.2	Apply the relational algebra and calculus to define expressions for queries in databases
C202.3	Analyze the calculus and relational algebra to specify searches in

	databases
C202.4	Analyze Database recovery methods, concurrency control, and transaction processing
C202.5	Summarize the several kinds of storage buildings.

Course Name - C213 (Object Oriented Programming using Java) Course Year: 2020-2021

After completion of the course, the students are able to,

C213.1	Summarize the History and Evolution of Java, Data Types, Arrays and Variables.
C213.2	Explain Classes & Objects, Control Statements, and Operators
C213.3	Describe the ideas behind interfaces, packages, inheritance, and exception handling.
C213.4	Design the I/O, Applets, and Multi threaded Programming.
C213.5	Design AWT-based layout managers and menus.

Course Name- C302 (Computer Networks)

Course Year: 2021-2022

After completion of the course, the students are able to,

C302.1	Describe the Physical layer ideas
C302.2	Explain Correction and identification of errors, control over media access
C302.3	Evaluate The Internet's network layer
C302.4	Explain ideas of internet transport protocol
C302.5	Describe Level of Application

Course Name- C311 (Data Warehousing & Mining)

Course Year: 2021-2022

After completion of the course, the students are able to,

C311.1	Describe regarding the principles and underlying ideas of data mining.
C311.2	Explain ideas regarding OLAP technology and data warehouses.
C311.3	Analyze the Common Patterns and Algorithms Mined.
C311.4	Analyze the cluster analysis techniques.
C311.5	Describe Concerning the Mining of Sequence, Web, and Stream Data.

Course Name- C402 (Cloud Computing)

Course Year: 2022-2023

After completion of the course, the students are able to,

C402.1	Describe Describe the steps involved in deploying a cloud..
C402.2	Explain Cloud Services.
C402.3	Analyze about the Cloud Develop models.
C402.4	Analyze Programming Models and Hadoop Framework .
C402.5	Analyze Create apps that an organization can use in a cloud environment..

Course Name- C410 (Enabling Technologies for Data Science Analytics : IoT)

Course Year:2022-2023

After completion of the course, the students are able to,

C410.1	Explain regarding domain specifics and IoT Internet of Things.
C410.2	Describe about M2M and system management.
C410.3	Use IoT design techniques in your applications.
C410.4	Analyze Apache Hadoop and IEEE protocols.
C410.5	Describe the gateway's specifications and the zigbee architecture..

3.1.2 CO-PO/PSO matrices of courses selected in 3.1.1 (six matrices to be mentioned; one per Semester from III to VIII Semester) (5/5)

CO-PO MAPPING:

Course Name: C202 (Database Management Systems)

CO	PO 1	PO 2	PO3	PO 4	PO5	PO 6	PO7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C202.1	2				-	-	-	-	-	-	-	-
C202.2	2	2	2	2	-	-	-	-	-	-	-	-
C202.3	2	1	2	1	-	-	-	-	-	-	-	-
C202.4	2	2	1	1	-	-	-	-	-	-	-	-
C202.5	2	2	2	2	-	-	-	-	-	-	-	-
C202	2.2	1.4	1.4	1.2	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00

Course Name: C213 (Object Oriented Programming using Java)

CO	PO 1	PO 2	PO3	PO 4	PO5	PO 6	PO7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C212. 1	2			2	-	-	-	-	-	-	2	-
C212. 2	2	2	2	2	-	-	-	-	-	-	2	-
C212. 3	3	2	2		-	-	-	-	-	-	-	-
C212. 4	3	2	2		-	-	-	-	-	-	-	-
C212. 5		2	2		-	-	-	-	-	-	3	-
C212	2.00	1.8	1.6	0.8	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00

Course Name: C302 (Computer Networks)

CO	PO 1	PO 2	PO3	PO 4	PO5	PO 6	PO7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C302. 1	3	2	1	2	1	-	-	-	-	-	-	2
C302. 2	3	2	2	2	2	-	-	-	-	-	-	2
C302.	3	1	1	2	1	-	-	-	-	-	-	2

3												
C302.4	3	2	1	3	1	-	-	-	-	-	-	2
C302.5	2	2	1	2	1	-	-	-	-	-	-	
C302	3.00	1.00	2.00	3.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00

Course Name: C311(Data Warehousing & Mining)

CO	PO 1	PO 2	PO3	PO 4	PO5	PO 6	PO7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C311.1	3	2	1	3	-	-	-	-	-	1	-	-
C311.2	3	2	2	2	-	-	-	-	-	2	1	-
C311.3	3	2	2	2	-	-	-	1	-	-	-	-
C311.4	3	2	2	3	-	-	-	1	-	2	-	-
C311.5	3	2	1	3	-	-	-	1	-	1	1	-
C311	3.00	2.00	2.00	3.00	0.00	0.00	0.00	1.00	0.00	2.00	1.00	0.00

Course Name: C402 (Cloud Computing)

CO	PO 1	PO 2	PO3	PO 4	PO5	PO 6	PO7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C402. 1	3	2	1	1	-	-	-	-	-	-	-	-
C402. 2	3	2	1	1	-	-	-	-	-	-	-	-
C402. 3	3	3	1	2	1	-	-	1	1	1	1	1
C402. 4	3	3	1	2	-	-	-	-	-	-	1	1
C402. 5	3	2	1	2	-	-	-	-	-	-	-	1
C402	3.00	2.00	1.00	2.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00

Course Name: C410 (Inter Of Things:IOT)

CO	PO 1	PO 2	PO3	PO 4	PO5	PO 6	PO7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C410. 1	3	2	1	1	-	-	-	1	-	-	-	-
C410. 2	3	3	1	1	-	-	-	-	-	-	-	-
C410.	3	3	2	2	-	-	-	-	1	1	-	-

3												
C410.4	3	3	2	2	-	-	-	-	-	-	1	-
C410.5	3	2	2	1	-	-	-	-	-	-	-	1
C410	3.00	3.00	2.00	2.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00

CO-PSO MAPPING:

Course Name: C202 (Database Management Systems)

CO	PSO1	PSO2	PSO3
C202.1	2	-	
C202.2	2	-	
C202.3	-	1	
C202.4	-	-	
C202.5	-	-	
C202	2.00	1.00	

Course Name: C213 (Object Oriented Programming using Java)

CO	PSO1	PSO2	PSO3
C213.1	-	1	-
C213.2	2	-	-
C213.3	-	-	-
C213.4	2	-	-
C213.5	-	-	1
Average	2.00	1.00	1.00

Course Name: C302 (Computer Networks)

CO	PSO1	PSO2	PSO3
C302.1	-	2	-
C302.2	1	-	-
C302.3	-	2	-
C302.4	-	-	-
C302.5	-	-	1
C302	1.00	2.00	1.00

Course Name: C311(Data Warehousing & Mining)

CO	PSO1	PSO2	PSO3
C311.1	2	-	-
C311.2	-	-	-
C311.3	2	1	-
C311.4	-	-	1
C311.5	-	-	-
C311	2.00	1.00	1.00

Course Name: C402 (Grid & Cloud Computing)

CO	PSO1	PSO2	PSO3
C402.1	-	-	-
C402.2	-	-	-
C402.3	2	1	-
C402.4	2	-	-
C402.5	-	-	1
C402	2.00	1.00	1.00

Course Name: C410 (Enabling Technologies for Data Science Analytics : IoT)

CO	PSO1	PSO2	PSO3
C410.1	-	1	-
C410.2	1	-	-
C410.3	-	-	1
C410.4	-	-	-
C410.5	-	-	-
C410	1.00	1.00	1.00

3.1.3 Program Level Courses-PO/PSO matrix of all courses including First Year Courses (10/10)

Courses –PO Mapping :Academic Year 2021 -2022

Sl.No	Course Name	Course Code	P	P	P	P	P	P	P	P	P	P	P	PO	PO
			1	2	3	4	5	6	7	8	9	10	11	12	
JNTUA University R19Regulation															
1	Functional English	C101	2	-	1	-	-	-	-	1	1	3	-	-	1
2	Mathematics – I	C102	3	3	2	2	-	-	-	1	-	-	-	-	1
3	Computer Programming	C103	3	3	2	2	-	-	-	1	-	-	-	-	-
4	Engineering	C104	3	2	1	1		1	1	-	-	-	-	-	1

	Physics													
5	Engineering Drawing	C105	3	3	3	3	-	-	-	-	-	-	-	-
6	English Language Communication Skills Lab	C106	2	-	1	-	-	-	-	1	1	3	-	1
7	Engineering Physics Lab	C107	3	3	3	2	-	-	-	1	1	1	-	1
8	Computer Programming Lab	C108	3	3	3	3	1	-	-	1	1	1	1	1
9	English for Professional Communication	C109	2	-	1	-	-	-	-	1	1	3	-	1
10	MathematicsOII	C110	3	2	1	2		1	1	1	-	-	-	2
11	Data Structures	C111	3	2	2	2	-	-	-	1	-	-	-	1
12	Engineering Chemistry	C112	3	2	1	1	-	-	-	-	-	-	-	-
13	Environmental Studies	C113	3	2	1	1	-	1	1	1	-	1		1
14	Data Structures Lab	C114	3	3	3	3	1	-	-	1	1	1	-	1
15	Engineering Chemistry Lab	C115	3	3	2	3	-	-	1	1	1	1	-	2
16	Engineering & IT	C116	2	3	2	2	-	-	-	3	3	-	-	2

	Workshop													
17	Mathematics III	C201	3	2	1	1	-	-	-	1	-	-	-	1
18	Database Management Systems	C202	3	2	2	2	-	1	-	1	1	1	1	1
19	Discrete Mathematics	C203	3	2	1	1	-	-	-	1	-	-	-	1
20	Basic Electrical and Electronics Engineering	C204	3	3	2	2	-	-	-	1	-	1	-	1
21	Digital Logic Design	C205	3	2	2	1	-	-	-	-	1	1	1	1
22	Managerial Economics and Financial Analysis	C206	3	3	2	2	-	-	-	1	-	-	-	-
23	Database Management Systems Laboratory	C207	3	3	2	2	-	-	-	1	1	1	1	1
24	Basic Electrical and Electronics Laboratory	C208	3	3	2	2	-	-	-	1	1	1	-	1
25	Probability and Statistics	C209	3	3	2	2	-	-	-	1	1	1	1	-
26	Software	C210	3	2	1	1	-	-	-	1	1	1	1	1

	Engineering													
27	Computer Organization	C211	3	2	1	1	-	-	-	1		1	-	-
28	Microprocessors & Interfacing	C212	3	2	1	1	-	-	-	-	-	-	-	-
29	Object Oriented Programming using Java	C213	3	2	3	2	-	1	-	1	-	-	-	1
30	Formal Languages and Automata Theory	C214	3	3	2	2	-	-	-	1	-	-	-	-
31	Microprocessors & Interfacing Laboratory	C215	3	3	3	3	-	-	-	1	1	1	-	-
32	Java Programming Laboratory	C216	3	2	2	2	-	-	-	1	-	-	-	-
33	Comprehensive Online Examination-I	C217	3	3	3	3	-	-	-	-	-	-	-	-
34	Operating Systems	C301	3	2	2	2	-	-	-	1	1	1	-	1
35	Computer Networks	C302	3	1	2	3	1	-	-	1	1	1	1	1
36	Object Oriented	C303	3	2	1	1	-	-	-	1	1	1	1	1

	Analysis and Design													
37	Principles of Programming Languages	C304	3	2	2	2	-	-	-	1	-	-	-	-
38	Software Testing	C305	3	2	2	2	-	-	-	1	-	1	1	1
39	Introduction to Big Data	C306	3	3	2	2	1	-	-	1	1	1	1	1
40	Object Oriented Analysis and Design & Software Testing Laboratory	C307	3	2	2	2	-	-	-	1	1	1	1	1
41	Operating Systems Laboratory	C308	3	3	3	3	-	-	-	1	-	1	-	1
42	Social Values & Ethics (Audit Course)	C309	3	2	3	3	-	-	-	1	-	1	1	1
43	Compiler Design	C310	3	2	1	2	-	-	-	1	-	1	1	1
44	Data Warehousing & Mining	C311	3	2	2	3	-	-	-	1	-	2	1	-
45	Design Patterns	C312	3	2	2	2	-	-	-	1	1	1	1	1
46	Design and	C313	3	2	2	2	-	-	1	1	1	1	1	1

	Analysis of Algorithms													
47	Web and Internet Technologies	C314	3	2	1	2	-	-	-	1	1	1	1	1
48	Artificial Intelligence	C315	3	2	1	1	-	-	1	1	1	1	1	1
49	Web and Internet Technologies Laboratory	C316	3	2	1	2	-	-	-	1	-	2	1	1
50	Data Warehousing & Mining Laboratory	C317	2	2	2	2	-	2	-	2		2	3	2
51	Advanced English Language Communication Skills	C318	3	3	2	2	-	-	-	-	-	1	1	1
52	Comprehensive Online Examination-II	C319	3	3	3	3	-	-	-	-	-	-	-	-
53	Management Science	C401	3	2	1	1	-	-	-	1	-	-	-	-
54	Grid & Cloud Computing	C402	3	2	1	2	1	-	-	1	1	1	1	1
55	Information	C403	3	2	1	1	-	-	-	1	-	-	-	-

	Security													
56	Mobile Application Development	C404	3	3	2	2	-	-	-	1	1	1	1	1
57	Software Architecture	C405	3	3	3	3	1	-	-	1		1	1	1
58	Software Project Management	C406	3	2	3	3	-	-	1	1	1	1	1	1
59	Grid & Cloud Computing Laboratory	C407	3	2	1	1	-	-	-	1	1	1	1	1
60	Mobile Application Development Laboratory	C408	3	2	1	2	-	-	-	1	1	1	1	1
61	Mobile Computing	C409	3	1	2	3	1	-	-	1	1	1	1	1
62	Enabling Technologies for Data Science Analytics : IoT	C410	3	3	2	2	-	-	-	1	1	1	1	1
63	Comprehensive Viva Voce	C411	3	3	3	3	-	-	-	-	-	-	-	-
64	Technical Seminar	C412	3	3	3	3	-	-	-	-	1	2	-	1
65	Project Work	C413	3	3	3	3	3	3	3	3	3	3	3	3
Average			3	2	2	2	0	0	0	1	1	1	1	1

Courses-PSO Mapping: Academic Year: 2021-22

S.NO	Course Name	Course	PSO 1	PSO2	PSO3
1	Functional English	C101	-	-	-
2	Mathematics – I	C102	-	-	-
3	Computer Programming	C103	1	3	3
4	Engineering Physics	C104	-	-	1
5	Engineering Drawing	C105	-	-	1
6	English Language Communication Skills Lab	C106	-	-	-
7	Engineering Physics Lab	C107	-	-	-
8	Computer Programming Lab	C108	2	3	3
9	English for Professional Communication	C109	-	-	-
10	Mathematics-II	C110	-	-	-
11	Data Structures	C111	1	2	1
12	Engineering Chemistry	C112	-	-	-
13	Environmental Studies	C113	-	-	-
14	Data Structures Lab	C114	2	3	2
15	Engineering Chemistry Lab	C115	-	-	-

16	Engineering & IT Workshop	C116	3	3	3
17	Mathematics III	C201	-	-	-
18	Database Management Systems	C202	1	2	2
19	Discrete Mathematics	C203	-	-	-
20	Basic Electrical and Electronics Engineering	C204	2	1	1
21	Digital Logic Design	C205	-	-	-
22	Managerial Economics and Financial Analysis	C206	-	-	-
23	Database Management Systems Laboratory	C207	2	1	2
24	Basic Electrical and Electronics Laboratory	C208	1	2	2
25	Probability and Statistics	C209	-	-	-
26	Software Engineering	C210	1	2	1
27	Computer Organization	C211	1	1	1
28	Microprocessors & Interfacing	C212	-	-	-
29	Object Oriented Programming using Java	C213	1	2	2
30	Formal Languages and Automata Theory	C214	1	1	1

31	Microprocessors & Interfacing Laboratory	C215	1	1	1
32	Java Programming Laboratory	C216	2	1	1
33	Comprehensive Online Examination-I	C217	-	-	-
34	Operating Systems	C301	1	2	1
35	Computer Networks	C302	1	2	1
36	Object Oriented Analysis and Design	C303	2	1	1
37	Principles of Programming Languages	C304	2	1	1
38	Software Testing	C305	1	2	2
39	Introduction to Big Data	C306	2	1	1
40	Object Oriented Analysis and Design & Software Testing Laboratory	C307	2	2	2
41	Operating Systems Laboratory	C308	2	2	2
42	Social Values & Ethics (Audit Course)	C309	-	-	-
43	Compiler Design	C310	1	1	1
44	Data Warehousing & Mining	C311	2	1	2
45	Design Patterns	C312	2	1	2
46	Design and Analysis of Algorithms	C313	1	1	1
47	Web and Internet Technologies	C314	1	2	2
48	Artificial Intelligence	C315	2	1	1
49	Web and Internet Technologies Laboratory	C316	1	2	1
50	Data Warehousing & Mining Laboratory	C317	1	2	2
51	Advanced English Language Communication Skills	C318	-	-	-
52	Comprehensive Online Examination-II	C319	-	-	-
53	Management Science	C401	-	-	-
54	Cloud Computing	C402	2	1	1

55	Information Security	C403	1	2	2
56	Mobile Application Development	C404	2	2	2
57	Software Architecture	C405	2	1	1
58	Software Project Management	C406	1	1	1
59	Cloud Computing Laboratory	C407	2	2	2
60	Mobile Application Development Laboratory	C408	2	2	2
61	Mobile Computing	C409	2	1	1
62	Internet Of Things: IoT	C410	1	1	1
63	Comprehensive Viva Voce	C411	-	-	-
64	Technical Seminar	C412	-	1	1
65	Project Work	C413	3	3	3
Average Courses – PSO Mapping			1	1	1

3.2 Attainment of Course Outcomes (50/50)

3.2.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10/10)

A. List of assessment process

COs are formulated for each course in the curriculum as suggested by Course Expert Group (CEG).

The below figure illustrates CO assessment process

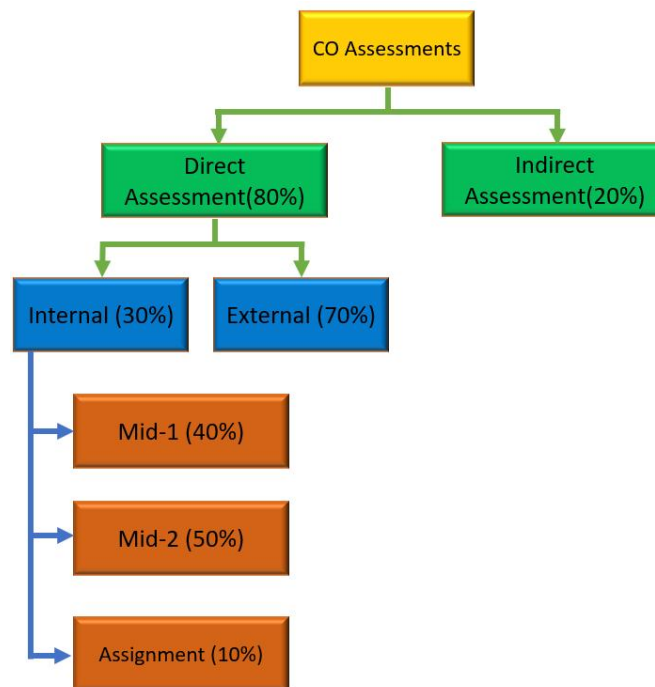


Figure :CO Assessment Process

To evaluate the attainment of COs, the following assessment tools are considered:

1. Direct Assessment Tools
2. Indirect Assessment Tools

Course outcome Attainment= $0.8 * \text{Direct Assessment} + 0.2 * \text{Indirect Assessment}$

Direct Assessment = $0.3 * \text{Internal Assessment} + 0.7 * \text{University Assessment}$

1. Direct Assessment Tools (80%):

The direct assessment tools for computing the attainment levels of course outcomes of R15 Regulations explained below.

Table: Weightage distribution of Direct Assessment Components

Course Type	Assessment Methods Threshold (%)	Weightage(%)
Theory	Midterm-I exam (40%)	30%
	Midterm-II exam (50%)	
	Assignment (10%)	
	University exam (50%)	70%
Lab	Continuous Assesment (50%)	30%
	Model Exam (50%)	
	University Exam (50%)	70%
Audit Course	Internal assessment (60%)	100%
Comprehensive Online Examination	University exam (50%)	100%
Comprehensive Viva- Voce	University exam (50%)	100%
Technical Seminar	Internal assessment (60%)	100%

The performance of a student in each semester shall be evaluated subject-wise with a maximum of 100 marks for theory and 100 marks for practical subject. In addition, project work shall be evaluated for 200 marks whereas audit courses shall be evaluated for a maximum of 30 internal marks.

- i. For theory subjects the distribution shall be 30 marks for Internal Evaluation and 70 marks for the End-Examination.
- ii. For practical subjects the distribution shall be 30 marks for Internal Evaluation and 70 marks for the End- Examination.

a. Internal Examinations:

For theory courses, during the semester, there shall be two midterm examinations. Each midterm examination consists of objective paper for 10 marks and subjective paper for 20 marks with duration of 2hrs. (20 minutes for objective and 90 minutes for subjective paper).

If the student is absent for the internal examination, no re-exam shall be conducted and internal marks for that examination shall be considered as zero.

First midterm examination shall be conducted for I, II units of syllabus and second midterm examination shall be conducted for III, IV & V units. Final Internal marks shall be arrived at by considering the marks secured by the student in both the mid examinations with 70% weightage to the better mid exam and 30% to the other.

b. End Examinations:

End examination of theory courses shall have the following pattern:

- a. There shall be 6 questions and all questions are compulsory.
- b. Question I shall contain 10 compulsory short answer questions for a total of 20 marks such

that each question carries 2 marks. There shall be 2 short answer questions from each unit.

c. In each of the questions from 2 to 11, there shall be either-or type questions of 10 marks each.

Student shall answer any one of them.

d. Each of these questions from 2 to 11 shall cover one unit of the syllabus

c. Practical Courses:

For practical courses there shall be a continuous evaluation during the semester for 30 sessional marks and end examination shall be for 70 marks. Day-to-day work in the laboratory shall be evaluated for 30 marks by the concerned laboratory teacher based on the regularity/record/ viva. The end examination shall be conducted by the concerned laboratory teacher and senior expert in the same subject of the department.

d. Audit Courses:

There shall be an audit pass course in Human values & Professional ethics and Advanced Communication skills lab with no credits. There shall be no external examination. However, attendance in the audit course shall be considered while calculating aggregate attendance and student shall be declared pass in the audit course only when he/she secures 40% or more in the internal examinations. In case if student fails, re-exam shall be conducted for failed candidates every six months/semester.

e. Comprehensive Online Examinations:

There are two comprehensive online examinations conducted by the respective college, one at the end of II year and the other at the end of III year, with 100 objective questions for 100 marks on the subjects studied in the respective semesters. The principal of the respective college are given the responsibility of preparing question bank/ question paper and conducting the online examination maintaining confidentiality. A student shall acquire 1 credit assigned to the comprehensive online examination only when he/she secures 40% or more marks. In case, if a student fails in comprehensive online

examination, he shall reappear/ re-register by following a similar procedure adopted for the lab examinations.

f. Technical Seminar:

There is a seminar presentation in IV-year II Semester. For the seminar, the student shall collect the information on a specialized topic and prepare a technical report, showing his/her understanding about the topic, and submit to the department before presentation. The report and the presentation shall be evaluated by the departmental committee consisting of Head of the Department, seminar supervisor and a senior faculty member. The seminar shall be evaluated for 50 marks. A student shall acquire 2 credits assigned to the seminar when he/she secures 40% or more marks for the total of 50 marks. In case, if a student fails in seminar, he/she shall reappear as and when IV-II supplementary examinations are conducted. The seminar shall be conducted any time during the semester as per the convenience of the department committee and students. There shall be no external examination for seminar.

g. Comprehensive Viva-Voce:

There is a Comprehensive Viva-Voce in IV-year II Semester. The Comprehensive viva-voce will be conducted by the committee consisting of Head of the Department and two senior faculty members of the department. The Comprehensive Viva-voce is aimed to assess the students' understanding in various subjects he/she studies during the B. Tech. course of study. The Comprehensive Viva-Voce shall be evaluated for 50 marks by the committee. There are no internal marks for the Comprehensive Viva-Voce. A student shall acquire 2 credits assigned to the Comprehensive Viva-voce when he/she secures 40% or more marks for the total of 50 marks. In case, if a student fails in Comprehensive Viva-voce he/she shall reappear as and when IV-II supplementary examinations are conducted. The Comprehensive Viva-voce shall be conducted anytime during the semester as per the convenience of the department committee and students.

h. Project work:

Out of a total of 200 marks for the project work, 60 marks shall be for Internal Evaluation and 140 marks for the End Semester Examination (Viva-voce). The Viva-Voce shall be conducted by a committee consisting of HOD, Project Supervisor and an External Examiner nominated by the University. Project work shall start in IV-I and shall continue in the semester break. The evaluation of project work shall be conducted at the end of the IV year-II semester. The Internal Evaluation shall be made by the departmental committee (Head of the Department and two senior faculty members of the department), on the basis of reviews given by each student on the topic of his/her project.

2. Indirect Assessment Tool (20%):

Course Exit Survey: At the end of each course, feedback is collected from the students by the course instructor and the average of it is considered.

S. No	Name of the Assessment Tool	Weightage
1	Direct Assessment Tools	80%
2	Indirect Assessment Tools	20%

Table : Weightage of CO assessment tools

B. Course Outcome Attainment Levels for direct assessment tools:

The course outcome attainment levels for direct assessment tools, set by the Course Expert Group (CEG), is as given below:

Table: Course Outcome Attainment Levels

Table:Course Outcome Attainment Levels

S.N O	Assessme nt Tool	Maxi mum Marks	Threshold level (%)	Attainment level Criteria	Attai nme nt level
1	Midterm Examinati ons	30	<p>1. For I-I courses: + or - the average percentage of midterm examination marks in I-I semester of previous academic year as suggested by CEG.</p> <p>2. From I-II Sem Onwards courses, the following procedure adapted:</p> <p>Case 1. Courses which are not having pre-requisites:+ or - the average percentage of previous semester midterm examination marks as suggested by CEG.</p> <p>Case 2: Courses which are having pre-requisites: + or - the average percentage of mid-term examination marks of all pre-requisites as suggested by CEG.</p>	At least 81%-100% of attempted students exceed Threshold level marks.	3
				At least 61%-80% of attempted students exceed Threshold level marks.	2
				At least 40%-60% of attempted students exceeds The threshold level marks.	1

2	External Examinations	70	1. For I-I courses: + or - the average percentage of semester end examination marks in I-I semester of previous academic year as suggested by CEG.	At least 81%-100% of attempted students exceed Threshold level marks.	3
			2. From I-II Sem Onwards courses, the following procedure adapted: Case 1. Courses which are not having pre-requisites: + or - the average percentage of previous semester end examination marks as suggested by CEG.	At least 61%-80% of attempted students exceed threshold level marks.	2
			Case 2: Courses which are having pre-requisites: + or - the average percentage of semester end examination marks of all pre-requisites as suggested by CEG	At least 40%-60% of attempted students exceed the threshold level marks.	1
3	Audit Course	30	Case 1. Courses which are not having pre-requisites: + or - the average percentage of previous semester midterm examination marks as suggested by CEG.	At least 81%-100% of attempted students exceed threshold level	3

			Case 2: Courses which are having pre-requisites: + or - the average percentage of midterm examination marks of all pre-requisites as suggested by CEG.	marks.	
				At least 61%-80% of attempted students exceed threshold level marks.	2
				At least 40%-60% of attempted students exceed the threshold level marks.	1
4	Comprehensive Online Examination-I & II	100	+ or - the average percentage of previous end semester examination marks.	At least 81%-100% of attempted students exceed threshold level marks	3
				At least 61%-80% of	2

				attempted students exceed threshold level marks.	
				At least 40%-60% of attempted students exceed the threshold level marks.	1
5	Comprehensive Viva-Voce	50	+ or - the average percentage of previous semester external examination marks.	At least 81%-100% of attempted students exceed threshold level marks	3
				At least 61%-80% of attempted students exceed threshold level marks.	2

				At least 40%-60% of attempted students exceed the threshold level marks.	1
6	Technical Seminar	50	+ or - the average percentage of related subject's internal marks.	At least 81%-100% of attempted students exceed threshold level marks	3
				At least 61%-80% of attempted students exceed threshold level marks.	2
				At least 40%-60% of attempted students exceed	1

				the threshold level marks.	
7	Project Work (Internal)	60	+ or - the average percentage of related subject's internal marks.	At least 81%-100% of attempted students exceed threshold level marks	3
				At least 61%-80% of attempted students exceed threshold level marks.	2
				At least 40%-60% of attempted students exceed the threshold level marks.	1
8	Project Work	140	+ or - the average percentage of related	At least 81%-100% of attempted	3

	(External)		subject's external marks.	students exceed threshold level marks	
				At least 61%-80% of attempted students exceed threshold level marks.	2
				At least 40%-60% of attempted students exceed the threshold level marks.	1

3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (40/40)

The attainment of Course Outcome is evaluated under two categories – University Examination and Internal Assessment.

University Examination:

For University Examination the target is fixed based on the following criteria.

Attainment Level 0: < 40% of students scoring more than Class Average in the University Examination.

Attainment Level 1: 40% - 60% of students scoring more than Class Average in the University Examination.

Attainment Level 2: 60% - 80% of students scoring more than Class Average in the University Examination.

Attainment Level 3: > 80% of students scoring more than Class Average in the University Examination.

Internal Assessment:

For Internal Assessment, the target is fixed based on summative manner i.e., by considering course performance through Internal Assessment Tests, Assignments and Project reviews, based on the need as described by the Course Instructor.

For Internal Assessment, the target is fixed based on the following criteria.

Attainment Level 0: <40% of students scoring more than Class Average in Internal Assessment Test.

Attainment Level 1: 40% - 60% of students scoring more than Class Average in Internal Assessment Test.

Attainment Level 2: 60% - 80% of students scoring more than Class Average in Internal Assessment Test.

Attainment Level 3: > 80% of students scoring more than Class Average in Internal Assessment Test.

The final CO attainment is calculated by allocating 70% weightage to University Examination and 30% weightage to Internal Assessment.

CO Attainment of all Courses:

SCALE			
Attainment Levels	Slight	1	40% - 60%
	Moderate	2	60% - 80%
	Substantial	3	80% - 100%

Table.3.2.2.CO attainment of all courses for the Academic year2020–21**3.3 Attainment of Program Outcomes and Program Specific Outcomes (50/50)****3.3.1 Describe the assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10/10)**

Course	Course Name	CO1	CO 2	CO 3	CO 4	CO 5	CO Average attainment
C101	Functional English	2.65	2.6 4	2.6 5	2.6 5	2.6 5	2.35
C102	Mathematics – I	1.15	1.1 5	1.1 4	1.1 4	1.1 5	1.1
C103	Computer Programming	1.03	1.0 3	1.0 3	1.0 3	1.0 2	1.02
C104	Engineering Physics	1.28	1.2 7	1.2 8	1.2 8	1.2 7	1.08
C105	Engineering Drawing	1.2	1.1 9	1.1 9	1.2	1.2	1.31
C106	English Language Communication Skills Lab	2.98	2.9 7	2.9 8	2.9 8	2.9 7	2.99

CRITERION -3**CSE - SAR**

C107	Engineering Physics Lab	2.96	2.9 5	2.9 5	2.9 6	2.9 6	2.96
C108	Computer Programming Lab	2.86	2.8 5	2.8 6	2.8 6	2.8 6	2.86
C109	English for Professional Communication	2.56	2.5 5	2.5 6	2.5 6	2.5 6	2.35
C110	Mathematics0II	1.28	1.2 8	1.2 8	1.2 8	1.2 8	1.13
C111	Data Structures	1.14	1.1 4	1.1 4	1.1 4	1.1 4	1
C112	Engineering Chemistry	1.32	1.3 1	1.3 2	1.3 2	1.3 2	1.32
C113	Environmental Studies	1.2	1.2	1.1 9	1.2	1.2	1.06
C114	Data Structures Lab	2.9	2.9	2.8 9	2.9	2.9	2.98

CRITERION -3**CSE - SAR**

C115	Engineering Chemistry Lab	2.91	2.9	2.9	2.9	2.9	2.88
C116	Engineering & IT Workshop	2.75	2.7	2.7	2.7	2.7	2.85
C201	Mathematics III	2.48	2.4	2.4	2.4	2.4	0.99
C202	Database Management Systems	0.92	0.8	1.0	1.0	1.0	1.04
C203	Discrete Mathematics	1.03	1.0	1.0	1.0	1.0	1.52
C204	Basic Electrical and Electronics Engineering	1.58	1.6	1.4	1.4	1.4	0.98
C205	Digital Logic Design	1.05	1.0	0.8	0.8	0.8	0.9
C206	Managerial Economics and Financial Analysis	0.99	1.0	1.0	1.0	1.0	1.02

CRITERION -3**CSE - SAR**

C207	Database Management Systems Laboratory	2.98	2.9 8	2.9 7	2.9 6	2.9 7	2.97
C208	Basic Electrical and Electronics Laboratory	2.13	2.1 0	2.1 1	2.0 8	2.1 5	2.11
C209	Probability and Statistics	1.01	1.0 6	1.0 2	1.0 5	1.0 5	1.04
C210	Software Engineering	1.64	1.6 2	1.4 8	1.4 8	1.4 6	1.54
C211	Computer Organization	1.65	1.7 0	1.6 6	1.6 8	1.6 8	1.67
C212	Microprocessors & Interfacing	1.62	1.6 0	1.4 8	1.4 8	1.4 6	1.53
C213	Object Oriented Programming using Java	1.03	1.0 4	0.7 3	0.7 0	0.7 3	0.85
C214	Formal Languages and Automata Theory	1.08	1.0 5	0.7 1	0.7 3	0.7 3	0.86

C215	Microprocessors & Interfacing Laboratory	2.13	2.10	2.11	2.08	2.15	3
C216	Java Programming Laboratory	2.95	2.96	2.97	2.94	2.97	2.96
C217	Comprehensive Online Examination-I	3	3	3	3	3	3
C301	Operating Systems	1.06	1.04	1.03	1.03	1.03	1.04
C302	Computer Networks	2.23	2.24	2.18	2.28	2.20	2.23
C303	Object Oriented Analysis and Design	1.65	1.62	1.47	1.48	1.46	1.54
C304	Principles of Programming Languages	1.08	1.06	1.04	1.05	1.05	1.06
C305	Software Testing	1.65	1.70	1.69	1.69	1.69	1.68

CRITERION -3
CSE - SAR

C306	Introduction to Big Data	0.88	0.8 8	1.0 3	1.0 4	1.0 5	0.97
C307	Object Oriented Analysis and Design & Software Testing Laboratory	2.88	2.9 1	2.9 3	2.8 9	2.9 0	2.9
C308	Operating Systems Laboratory	2.90	2.8 9	2.9 2	2.9 0	2.9 0	2.9
C309	Social Values & Ethics (Audit Course)	3	3	3	3	3	1.4
C310	Compiler Design	1.07	1.0 6	0.8 8	0.8 7	0.8 9	0.95
C311	Data Warehousing & Mining	1.08	1.0 6	0.8 9	0.8 9	0.8 9	0.96
C312	Design Patterns	1.62	1.6 1	1.4 4	1.4 9	1.4 4	1.52
C313	Design and Analysis of	1.07	1.0	0.8	0.8	0.8	0.96

CRITERION -3**CSE - SAR**

	Algorithms		6	8	9	9	
C314	Web and Internet Technologies	1.08	1.0 6	0.7 2	0.7 3	0.7 3	0.86
C315	Artificial Intelligence	1.33	1.3 0	1.4 6	1.4 8	1.4 6	1.41
C316	Web and Internet Technologies Laboratory	2.87	2.8 9	2.8 3	2.9 3	2.8 4	2.87
C317	Data Warehousing & Mining Laboratory	2.87	2.8 8	2.8 2	2.9 3	2.8 4	2.87
C318	Advanced English Language Communication Skills	3	3	3	3	3	3
C319	Comprehensive Online Examination-II	3	3	3	3	3	3
C401	Management Science	1.59	1.6 1	1.5 4	1.6 4	1.5 6	1.59

C402	Grid & Cloud Computing	1.59	1.6 1	1.3 7	1.4 8	1.4 0	1.49
C403	Information Security	1.02	1.0 2	1.0 1	1.0 2	1.0 3	1.02
C404	Mobile Application Development	1.06	1.0 4	0.8 7	0.8 7	0.9 2	0.95
C405	Software Architecture	1.68	1.6 8	1.6 7	1.6 6	1.7 0	1.68
C406	Software Project Management	1.59	1.6 1	1.4 2	1.4 9	1.4 3	1.51
C407	Grid & Cloud Computing Laboratory	2.87	2.8 8	2.8 2	2.9 3	2.8 6	2.87
C408	Mobile Application Development Laboratory	2.87	2.8 8	2.8 6	2.9 3	2.8 6	2.88
C409	Mobile Computing	1.61	1.6 3	1.6 4	1.6 2	1.6 1	1.62

CRITERION -3**CSE - SAR**

C410	Enabling Technologies for Data Science Analytics : IoT	2.09	2.1 2	2.2 9	2.2 6	2.2 7	2.21
C411	Comprehensive Viva Voce	3	3	3	3	3	2.23
C412	Technical Seminar	3	3	3	3	3	3

3.3.2 Provide results of evaluation of each PO & PSO

(40/40)

PO Attainment of all courses for the Academic Year 2020–2021

Course Name	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
JNTUA R19 Regulation													
Functional English	C101	1.57	0.00	0.78	0.00	0.00	0.00	0.00	0.78	0.78	2.35	0.00	0.78
Mathematics – I	C102	1.10	1.10	0.73	0.73	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.37
Computer Programming	C103	1.02	1.02	0.68	0.68	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
Engineering Physics	C104	1.08	0.72	0.36	0.36	0.00	0.36	0.36	0.00	0.00	0.00	0.00	0.36
Engineering Drawing	C105	1.31	1.31	1.31	1.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
English Language Communication Skills Lab	C106	1.99	0.00	1.00	0.00	0.00	0.00	0.00	1.00	1.00	2.99	0.00	1.00

CRITERION -3**CSE - SAR**

Engineering Physics Lab	C107	2.96	2.96	2.96	1.97	0.00	0.00	0.00	0.99	0.99	0.99	0.00	0.99
Computer Programming Lab	C108	2.86	2.86	2.86	2.86	0.95	0.00	0.00	0.95	0.95	0.95	0.95	0.95
English for Professional Communication	C109	1.57	0.00	0.78	0.00	0.00	0.00	0.00	0.78	0.78	2.35	0.00	0.78
Mathematics II	C110	1.13	0.75	0.38	0.75	0.00	0.38	0.38	0.38	0.00	0.00	0.00	0.75
Data Structures	C111	1.00	0.67	0.67	0.67	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.33
Engineering Chemistry	C112	1.32	0.88	0.44	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environmental Studies	C113	1.06	0.71	0.35	0.35	0.00	0.35	0.35	0.35	0.00	0.35	0.00	0.35
Data Structures Lab	C114	2.98	2.98	2.98	2.98	0.99	0.00	0.00	0.99	0.99	0.99	0.00	0.99
Engineering Chemistry Lab	C115	2.88	2.88	1.92	2.88	0.00	0.00	0.96	0.96	0.96	0.96	0.00	1.92
Engineering & IT Workshop	C116	1.90	2.85	1.90	1.90	0.00	0.00	0.00	2.85	2.85	0.00	0.00	1.90
Mathematics III	C201	0.99	0.66	0.33	0.33	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.33
Database Management	C202	1.04	0.69	0.69	0.69	0.00	0.00	0.00	0.35	0.00	0.35	0.35	0.35

CRITERION -3**CSE - SAR**

Systems													
Discrete Mathematics	C203	1.52	1.01	0.51	0.51	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.51
Basic Electrical and Electronics Engineering	C204	0.98	0.98	0.65	0.65	0.00	0.00	0.00	0.33	0.00	0.33	0.00	0.33
Digital Logic Design	C205	0.90	0.60	0.60	0.30	0.00	0.00	0.00	0.00	0.30	0.30	0.30	0.30
Managerial Economics and Financial Analysis	C206	1.02	1.02	0.68	0.68	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
Database Management Systems Laboratory	C207	2.97	2.97	1.98	1.98	0.00	0.00	0.00	0.99	0.99	0.99	0.99	0.99
Basic Electrical and Electronics Laboratory	C208	2.11	2.11	1.41	1.41	0.00	0.00	0.00	0.70	0.70	0.70	0.00	0.70
Probability and Statistics	C209	1.04	1.04	0.69	0.69	0.00	0.00	0.00	0.35	0.35	0.35	0.35	0.00
Software Engineering	C210	1.54	1.03	0.51	0.51	0.00	0.00	0.00	0.51	0.51	0.51	0.51	0.51
Computer Organization	C211	1.67	1.11	0.56	0.56	0.00	0.00	0.00	0.56	0.00	0.56	0.00	0.00

CRITERION -3**CSE - SAR**

Microprocessors & Interfacing	C212	1.53	1.02	0.51	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Object Oriented Programming using Java	C213	0.85	0.57	0.85	0.57	0.85	0.00	0.00	0.28	0.00	0.28	0.28	0.28
Formal Languages and Automata Theory	C214	0.86	0.86	0.57	0.57	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00
Microprocessors & Interfacing Laboratory	C215	3.00	3.00	3.00	3.00	0.00	0.00	0.00	1.00	1.00	1.00	0.00	0.00
Java Programming Laboratory	C216	2.96	1.97	1.97	1.97	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00
Comprehensive Online Examination-I	C217	3.00	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Operating Systems	C301	1.04	0.69	0.69	0.69	0.00	0.00	0.00	0.35	0.35	0.35	0.00	0.35
Computer Networks	C302	2.23	0.74	1.49	2.23	0.74	0.00	0.00	0.74	0.74	0.74	0.74	0.74
Object Oriented Analysis and Design	C303	1.54	1.03	0.51	0.51	0.00	0.00	0.00	0.51	0.51	0.51	0.51	0.51
Principles of Programming	C304	1.06	0.71	0.71	0.71	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00

CRITERION -3**CSE - SAR**

Languages													
Software Testing	C305	1.68	1.12	1.12	1.12	0.00	0.00	0.00	0.56	0.00	0.56	0.56	0.56
Introduction to Big Data	C306	0.97	0.97	0.65	0.65	0.32	0.00	0.00	0.32	0.32	0.32	0.32	0.32
Object Oriented Analysis and Design & Software Testing Laboratory	C307	2.90	1.93	1.93	1.93	0.00	0.00	0.00	0.97	0.97	0.97	0.97	0.97
Operating Systems Laboratory	C308	2.90	2.90	2.90	2.90	0.00	0.00	0.00	0.97	0.00	0.97	0.00	0.97
Social Values & Ethics (Audit Course)	C309	1.40	0.93	1.40	1.40	0.00	0.00	0.00	0.47	0.00	0.47	0.47	0.47
Compiler Design	C310	0.95	0.63	0.32	0.63	0.00	0.00	0.00	0.32	0.00	0.32	0.32	0.32
Data Warehousing & Mining	C311	0.96	0.64	0.64	0.96	0.00	0.00	0.00	0.32	0.00	0.64	0.32	0.00
Design Patterns	C312	1.52	1.01	1.01	1.01	0.00	0.00	0.00	0.51	0.51	0.51	0.51	0.51
Design and Analysis of Algorithms	C313	0.96	0.64	0.64	0.64	0.00	0.00	0.32	0.32	0.32	0.32	0.32	0.32

CRITERION -3**CSE - SAR**

Web and Internet Technologies	C314	0.86	0.57	0.29	0.57	0.00	0.00	0.00	0.29	0.29	0.29	0.29	0.29
Artificial Intelligence	C315	1.41	0.94	0.47	0.47	0.00	0.00	0.47	0.47	0.47	0.47	0.47	0.47
Web and Internet Technologies Laboratory	C316	2.87	1.91	0.96	1.91	0.00	0.00	0.00	0.96	0.00	1.91	0.96	0.96
Data Warehousing & Mining Laboratory	C317	1.91	1.91	1.91	1.91	0.00	1.91	0.00	1.91	0.00	1.91	2.87	1.91
Advanced English Language Communication Skills	C318	3.00	3.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
Comprehensive Online Examination-II	C319	3.00	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Management Science	C401	1.59	1.06	0.53	0.53	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00
Cloud Computing	C402	1.49	0.99	0.50	0.99	0.50	0.00	0.00	0.50	0.50	0.50	0.50	0.50
Information Security	C403	0.95	0.63	0.32	0.32	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
Mobile Application	C404	1.68	1.68	1.12	1.12	0.00	0.00	0.00	0.56	0.56	0.56	0.56	0.56

CRITERION -3

CSE - SAR

Development													
Software Architecture	C405	1.51	1.51	1.51	1.51	0.50	0.00	0.00	0.50	0.00	0.50	0.50	0.50
Software Project Management	C406	2.87	1.91	2.87	2.87	0.00	0.00	0.96	0.96	0.96	0.96	0.96	0.96
Grid & Cloud Computing Laboratory	C407	2.88	1.92	0.96	0.96	0.00	0.00	0.00	0.96	0.96	0.96	0.96	0.96
Mobile Application Development Laboratory	C408	1.62	1.08	0.54	1.08	0.00	0.00	0.00	0.54	0.54	0.54	0.54	0.54
Mobile Computing	C409	2.21	0.74	1.47	2.21	0.74	0.00	0.00	0.74	0.74	0.74	0.74	0.74
Enabling Technologies for Data Science Analytics : IoT	C410	2.23	2.23	1.49	1.49	0.00	0.00	0.00	0.74	0.74	0.74	0.74	0.74
Comprehensive Viva Voce	C411	3.00	3.00	3.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Technical Seminar	C412	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average PO Attainment		1.74	1.36	1.17	1.20	0.09	0.05	0.06	0.57	0.37	0.57	0.32	0.52

PSO Attainment of all courses for the Academic Year 2020-2021

Course Name	Course Code	PSO 1	PSO 2	PSO 3
Functional English	C101	0.00	0.00	0.00
Mathematics – I	C102	0.00	0.00	0.00
Computer Programming	C103	0.34	1.02	1.02
Engineering Physics	C104	0.00	0.00	0.00
Engineering Drawing	C105	0.00	0.00	0.00
English Language Communication Skills Lab	C106	0.00	0.00	0.00
Engineering Physics Lab	C107	0.00	0.00	0.00
Computer Programming Lab	C108	1.91	2.86	1.91
English for Professional Communication	C109	0.00	0.00	0.00
Mathematics0II	C110	0.00	0.00	0.00
Data Structures	C111	0.33	0.67	0.67
Engineering Chemistry	C112	0.00	0.00	0.00
Environmental Studies	C113	0.00	0.00	0.00
Data Structures Lab	C114	1.99	2.98	2.98
Engineering Chemistry Lab	C115	0.00	0.00	0.00
Engineering & IT Workshop	C116	2.85	2.85	2.85

Mathematics III	C201	0.00	0.00	0.00
Database Management Systems	C202	0.35	0.69	0.35
Discrete Mathematics	C203	0.00	0.00	0.00
Basic Electrical and Electronics Engineering	C204	0.65	0.33	0.33
Digital Logic Design	C205	0.00	0.00	0.00
Managerial Economics and Financial Analysis	C206	0.00	0.00	0.00
Database Management Systems Laboratory	C207	1.98	0.99	1.98
Basic Electrical and Electronics Laboratory	C208	0.70	1.41	0.70
Probability and Statistics	C209	0.00	0.00	0.00
Software Engineering	C210	0.51	1.03	1.03
Computer Organization	C211	0.56	0.56	0.56
Microprocessors & Interfacing	C212	0.00	0.00	0.00
Object Oriented Programming using Java	C213	0.28	0.57	0.28
Formal Languages and Automata Theory	C214	0.29	0.29	0.29
Microprocessors & Interfacing Laboratory	C215	1.00	1.00	1.00
Java Programming Laboratory	C216	1.97	0.99	1.97
Comprehensive Online Examination-I	C217	0.00	0.00	0.00
Operating Systems	C301	0.35	0.69	0.69
Computer Networks	C302	0.74	1.49	0.74

Object Oriented Analysis and Design	C303	1.03	0.51	1.03
Principles of Programming Languages	C304	0.71	0.35	0.71
Software Testing	C305	0.56	1.12	0.56
Introduction to Big Data	C306	0.65	0.32	0.65
Object Oriented Analysis and Design & Software Testing Laboratory	C307	1.93	1.93	1.93
Operating Systems Laboratory	C308	1.93	1.93	1.93
Social Values & Ethics (Audit Course)	C309	0.00	0.00	0.00
Compiler Design	C310	0.32	0.32	0.32
Data Warehousing & Mining	C311	0.64	0.32	0.32
Design Patterns	C312	1.01	0.51	0.51
Design and Analysis of Algorithms	C313	0.32	0.32	0.32
Web and Internet Technologies	C314	0.29	0.57	0.29
Artificial Intelligence	C315	0.94	0.47	0.47
Web and Internet Technologies Laboratory	C316	0.96	1.91	1.91
Data Warehousing & Mining Laboratory	C317	0.96	1.91	1.91
Advanced English Language Communication Skills	C318	0.00	0.00	0.00
Comprehensive Online Examination-II	C319	0.00	0.00	0.00
Management Science	C401	0.00	0.00	0.00

Grid & Cloud Computing	C402	0.99	0.50	0.50
Information Security	C403	0.32	0.63	0.63
Mobile Application Development	C404	1.12	1.12	1.12
Software Architecture	C405	1.01	0.50	0.50
Software Project Management	C406	0.96	0.96	0.96
Grid & Cloud Computing Laboratory	C407	1.92	1.92	1.92
Mobile Application Development Laboratory	C408	1.08	1.08	1.08
Mobile Computing	C409	1.47	0.74	1.47
Enabling Technologies for Data Science Analytics : IoT	C410	0.74	0.74	0.74
Comprehensive Viva Voce	C411	0.00	0.00	0.00
Technical Seminar	C412	0.00	0.00	0.00
Average PSO Attainment		0.62	0.66	0.63

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
DIRECT ATTAINMENT	2.04	1.78	1.65	1.67	0.52	0.55	0.55	0.96	1.1	1.237	0.862	1.202	1.024	1.022	1.023
INDIRECT ATTAINMENT	3	3	3	3	2.2	2.6	2.6	2.4	2.4	2.6	2.6	2.8	2.8	2.8	2.8
FINAL ATTAINMENT	2.24	2.02	1.92	1.94	0.85	0.96	0.96	1.25	1.36	1.51	1.209	1.521	1.379	1.378	1.376

FINAL ATTAINMENT

PO & PSO's	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
FINAL ATTAINMENT	2.24	2.02	1.92	1.94	0.85	0.96	0.96	1.25	1.36	1.51	1.209	1.521	1.379	1.378	1.376

Criterion 4	Students' Performance	113.31/150
--------------------	------------------------------	-------------------

4.1 Enrolment Ratio (20/20)

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	CAY (2023-24)	CAYm 1(2022-23)	CAYm 2(2021-22)	CAYm3 (2020-21)	CAYm4 (2019-20)	CAYm5 (2018-19)	CAYm6 (2017-18)	CAYm4 (2019-20)	CAYm5 (2018-19)	CAYm6 (2017-18)
Sanctioned intake of the program(N)	120	120	120	120	120	120	120	120	120	120
Total number of students admitted in first year minus number of students migrated to other programs/institutions plus No. of students	120	102	119	106	88	101	82			

migrated to this program (N1)										
Number of students admitted in 2 nd year in the same batch via lateral entry(N2)	0	6	3	1	3	0	0			
Separate division students, if applicable (N3)	-	-	-	-	-	-	-			
Total number of students admitted in the Program(N1+N2+N3)	120	108	122	107	91	101	82			

TableB.4a Total number of students admitted in the program for past Four years

Year of entry	N1+ N2+ N3 (As defined above)	Number of students who have successfully graduated without backlogs in any semester/year of study(Without Backlog means no compartment or Failures in any semester/year of study)			
2023-24 CAY	120(120+0+0)				
2022-23 CAYm1	108(102+06+0)	66			
2021-22 CAYm2	122(119+03+0)	74	70		
2020-21 CAYm3	107(106+01+0)	67	67	51	
2019-20 CAYm4(LYG)	91(88+03+0)	58	57	42	39
2018-19 CAYm5 (LYGm1)	101(101+0+0)	68	66	49	41
2017-18 CAYm6 (LYGm2)	82(82+0+0)	53	50	36	32

Table: B.4.b .Number of students successfully graduated without backlogs

Year of entry	N1+ N2+ N3 (As defined above)	Number of students who have successfully graduated with backlogs in any semester/year of study(Total of with Backlog+ without Backlog)			
2023-24 CAY	120(120+0+0)				
2022-23 CAYm1	108(102+06+0)	100			
2021-22 CAYm2	122(119+03+0)	110	113		
2020-21 CAYm3	107(106+01+0)	103	99	99	
2019-20 CAYm4(LY G)	91(88+03+0)	86	86	86	86
2018-19 CAYm5 (LYGm1)	101(101+0+0)	101	101	97	96
2017-18 CAYm6 (LYGm2)	82(82+0+0)	82	82	80	79

Table B.4.c Number of students successfully graduated with backlogs

Enrolment Ratio= $N1/N$

Item (Students are at the first Year Level on average basis during the last three years starting from current academic year)	Marks
$\geq 90\%$ students enrolled	20
$\geq 80\%$ students enrolled	18
$\geq 70\%$ students enrolled	16
$\geq 60\%$ students enrolled	14
$\geq 50\%$ students enrolled	12
Otherwise	0

Year of Entry	N1	N	Enrolment Ratio=N1/ N	Percentage	Marks
2023-24	120	120	1	100	20
2022-23	102	120	0.85	85	18
2021-22	119	120	0.99	99	20
2020-21	106	120	0.88	88	18
Average			$(ER1+ER2+ER3)/3= 94.66$		

Table B.4.1 Enrolment Ratio

4.2 Success Rate in the stipulated period of the program (24.55/40)

4.2.1. Success rate without backlogs in any semester/year of study (10.25/25)

SI= (Number of students who have graduated from the program without backlog)/ (Number of students admitted in the first year of that batch and admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI=Mean of Success Index (SI) for past three batches

Success rate without backlogs in any year of study =25×Average SI

Success rate without backlogs in any year of study= **25 ×0.4082=10.205**

Item	LYG (CAYm4) 2019-20	LYGm1 (CAYm5) 2018- 19	LYGm2 (CAYm6) 2017- 18
Number of students admitted in the corresponding First Year + admitted in 2 nd year via lateral entry and separate division, if Applicable(X)	91	101	82
Number of students who have graduated Without backlogs in the stipulated period(Y)	39	41	32
Success Index (SI=Y/X)	0.4285	0.4059	0.3902
Average SI	0.4082		

Table B.4.2.1 Success rate without backlogs

4.2.2 Success rate with backlog in stipulated period of study (14.30/15)

SI= (Number of students who graduated from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and admitted in 2nd year via lateral entry and separate division, if applicable)

Average SI = mean of Success Index (SI) for past three batches
 Success rate=15 ×Average SI=**15 × 0.9530 = 14.295**

Item	(CAYm3) 2020-21	LYG (CAYm4) 2019-20	LYGm1 (CAYm5) 2018-19	LYGm2 (CAYm6) 2017-18
Number of students admitted in the corresponding First Year +admitted in 2 nd year via lateral entry and separate division, if applicable (X)	Pursuing	91	101	82
Number of students who have graduated with backlogs in the stipulated period		86	96	79
Success Index(SI= Y/X)	-	0.945 0	0.95 05	0.963 4
Average Success Index	0.9530			

Table B.4.2.2 Success rate with backlogs in stipulated period.

Note: If 100% students clear without any backlog then also total marks scored will be 40 as both 4.2.1 &4.2.2 will be applicable simultaneously.

4.3 Academic Performance in Third Year (10.91/15)

Academic Performance = 1.5*Average API (Academic Performance Index)

API = ((Mean of 3rd Year Grade Point Average of all successful Students on a 10point scale) or (Mean of the percentage of marks of all successful students in Third Year/10)) x number of successful students/number of students appeared in the examination) Successful students are those who are permitted to proceed to the final year. Academic Performance=**1.5 * 7.47 = 11.06**

Academic Performance	CAYm3 2020- 21	LYG 2019-20	LYGm1 2018-19
Mean of CGPA or Mean Percentage of All successful students(X)	7.12	7.4	7.6
Total no. of successful students (Y)	99	86	97
Total no. of students appeared in the Examination (Z)	99	86	101
API=x* (Y/Z)	7.12	7.4	7.9
Average API=(AP1 +AP2 +AP3)/3	7.47		

Table B.4.3 Academic performance in 3rd year

4.4 Academic Performance in Second Year (11.58/15)

Academic Performance Level = 1.5 * Average API (Academic Performance Index) API= ((Mean of 2nd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) x (number of successful students/ number of students appeared in the examination) Successful students are those who are permitted to proceed to the Third year. Academic Performance = 1.5 * Average API (Academic Performance Index) Academic Performance = **1.5 * 7.76 = 11.64**

Academic Performance	CAYm2 2021-22	CAYm3 2020-21	LYG 2019-20
Mean of CGPA or Mean Percentage of All successful students (X)	7.84	7.64	7.8
Total no. of successful students(Y)	97	79	68
Total no. of students appeared in the Examination (Z)	97	79	68
API=x* (Y/Z)	7.84	7.64	7.8
Average API=(AP1 +AP2 +AP3)/3	7.76		

TableB.4.4 Academic performance in 2nd year

4.5 Placement, Higher Studies and Entrepreneurship (26.27/40)

Assessment Points = 40 × average placement Assessment Points =

$$40 \times 0.6305 = 25.22$$

Item	LYG (2019-20)	LYGm1 (2018- 19)	LYGm2 (2017- 18)
Total No. of Final Year Students (N)	84	97	90
No. of students placed in companies or Government Sector (x)	35	49	64
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	06	04	03
No. of students turned entrepreneur in engineering/ technology (z)	05	03	02
$x + y + z =$	46	56	69
Placement Index: $(x + y + z) / N$	0.5476	0.5773	0.766 6
Average placement = $(P1 + P2 + P3) / 3$	0.6305		

Table B.4.5 Placement, Higher studies and Entrepreneurship for past three years

4.5 a. Provide the placement data in the below mentioned format with the name of the program and the assessment year:

CAY m1 (2022-23)

S. No	Student Name	Enrollment No.	Employee Name	Appointment Letter Reference No. with Date
1	A GANESH	19W51A0501	TechM	VISM/CSE/TechM-01
2	AFKHAN SUHEB	19W51A0504	TechM	VISM/CSE/TechM-02
3	B SIRISHA	19W51A0508	TechM	VISM/CSE/TechM-03
4	C MAHESH	19W51A0515	TechM	VISM/CSE/TechM-04
5	D ASHFAQ PATHAN	19W51A0517	TechM	VISM/CSE/TechM-05
6	D NAVEEN KUMAR REDDY	19W51A0518	TechM	VISM/CSE/TechM-06
7	G NEELAKANTESWARA	19W51A0527	TechM	VISM/CSE/TechM-07
8	G NOWREEN	19W51A0528	TechM	VISM/CSE/TechM-08
9	K BHANU CHANDAR	19W51A0536	TechM	VISM/CSE/TechM-09
10	K VYSHNAVI	19W51A0541	TechM	VISM/CSE/TechM-10
11	KAKKALA SAI KUMAR	19W51A0542	TechM	VISM/CSE/TechM-11
12	KUTAGOLLA SHAILA BHANU	19W51A0545	TechM	VISM/CSE/TechM-12
13	M JYOSHNA	19W51A0546	TechM	VISM/CSE/TechM-13
14	MOPURI LOHITH	19W51A0553	TechM	VISM/CSE/TechM-14

15	P AKHILA	19W51A0556	TechM	VISM/CSE/TechM-15
16	POOJARI ARUN KUMAR	19W51A0563	TechM	VISM/CSE/TechM-16
17	POOJARI TEJA	19W51A0564	TechM	VISM/CSE/TechM-17
18	SHAIK MAHAMMAD AZAD	19W51A0573	TechM	VISM/CSE/TechM-18
19	SHAIK SHAHIRA ANJUM	19W51A0575	TechM	VISM/CSE/TechM-19
20	SURAPU PAVITHRA	19W51A0578	TechM	VISM/CSE/TechM-20
21	TALUPULA HURAIN	19W51A0582	TechM	VISM/CSE/TechM-21
22	V SATISH REDDY	19W51A0586	TechM	VISM/CSE/TechM-22
23	VUPPUTHOLLA SHILPA	19W51A0589	TechM	VISM/CSE/TechM-23
24	M MADHU SAI	19W51A0591	TechM	VISM/CSE/TechM-24
25	NOWREEN GUNTIMADUGU	19W51A0528	Altek	VISM/CSE/Altek-01
26	G.NEELAKANTESWA RA	19W51A0527	Kodnest	VISM/CSE/KodnesT-01
27	S. S. ANJUM	19W51A0575	Kodnest	VISM/CSE/KodnesT-02
28	SAYYAD AMMAJAN	19W51A0570	Kodnest	VISM/CSE/KodnesT-03
29	B.S.JAYARAJ	18W51A0506	Pentagon Space	VISM/CSE/PntgSpace- 01
30	MEKALA SREENIVASULU	18W51A0559	Pentagon Space	VISM/CSE/PntgSpace- 02

31	C. LAYA BRAMHINI	18W51A0517	Pentagon Space	VISM/CSE/PntgSpace-03
32	D.RAGINI	18W51A0519	Pentagon Space	VISM/CSE/PntgSpace-04
33	J POOJITHA	18W51A0534	Pentagon Space	VISM/CSE/PntgSpace-05
34	NOWREEN GUNTIMADUGU	19W51A0528	Palle	VISM/CSE/Palle-01
35	GUNDLURI AFSANA	19W51A0532	Palle	VISM/CSE/Palle-02

CAYm2 (2021-22)

S.No	Student Name	Enrollment No.	Employee Name	Appointment Letter Reference No. with Date
1	KOVELAKUNTLA MADIYA KAUSAR	18W51A0546	Capgemini	VISM/CSE/Capge-01
2	A VAMSI KRISHNA REDDY	18W51A0501	Cubespace Technologies	VISM/CSE/CST-01
3	B MAHESH	18W51A0505	Cubespace Technologies	VISM/CSE/CST-02
4	BALAPPAGARI GOWRI	18W51A0507	Cubespace Technologies	VISM/CSE/CST-03
5	C VENKATA SUMANTH	18W51A0511	Cubespace Technologies	VISM/CSE/CST-04
6	C YASWANTH REDDY	18W51A0512	Cubespace Technologies	VISM/CSE/CST-05

7	GEDIRE APARNA	18W51A0528	Cubespace Technologies	VISM/CSE/CST-06
8	GOODURU SAI KUMAR	18W51A0530	Cubespace Technologies	VISM/CSE/CST-07
9	KOMMA GOVARDHAN	18W51A0543	Cubespace Technologies	VISM/CSE/CST-08
10	MADANAPALLE ASMIYA SHAIK	18W51A0556	Cubespace Technologies	VISM/CSE/CST-09
11	P YOGA SAI SREE	18W51A0568	Cubespace Technologies	VISM/CSE/CST-10
12	PEMMA HIMA BINDU	18W51A0573	Cubespace Technologies	VISM/CSE/CST-11
13	ROUTH NAGAVENI	18W51A0580	Cubespace Technologies	VISM/CSE/CST-12
14	T SRAVANI	18W51A0596	Cubespace Technologies	VISM/CSE/CST-13
15	TIRUMALASETTY APURUPA	18W51A0599	Cubespace Technologies	VISM/CSE/CST-14
16	K KHADHAR BASHA	18W51A0535	Infotel India	VISM/CSE/Infoin-01
17	NARA SAI MADHURI	18W51A0564	Infotel India	VISM/CSE/Infoin-02
18	NARNAVARAM BHAGYA LAKSHMI	18W51A0565	Infotel India	VISM/CSE/Infoin-03
19	SHAIK ANJUMARA	18W51A0584	Infotel India	VISM/CSE/Infoin-04

20	VADIGALA SHIRIN TAJ	18W51A05A0	Infotel India	VISM/CSE/Infoin-05
21	B KARTHIK	18W51A0504	Lean Data Technologies	VISM/CSE/LDT-01
22	B SUDHEER REDDY	18W51A0508	Lean Data Technologies	VISM/CSE/LDT-02
23	C GOKUL SAI	18W51A0510	Lean Data Technologies	VISM/CSE/LDT-03
24	CHEKKABHARGAVI	18W51A0513	Lean Data Technologies	VISM/CSE/LDT-04
25	GALIGUTTA REKHA	18W51A0527	Lean Data Technologies	VISM/CSE/LDT-05
26	J POOJITHA	18W51A0534	Lean Data Technologies	VISM/CSE/LDT-06
27	K CHANDU PRAKASH REDDY		Lean Data Technologies	VISM/CSE/LDT-07
28	KRISHTIPATI JYOTHSNA	18W51A0547	Lean Data Technologies	VISM/CSE/LDT-08
29	MODEM HARI KUMAR	18W51A0561	Lean Data Technologies	VISM/CSE/LDT-09
30	P YAMUNA	18W51A0567	Lean Data Technologies	VISM/CSE/LDT-10
31	PADIPATLA MUSKAN	18W51A0569	Lean Data Technologies	VISM/CSE/LDT-11
32	SYED JABEED	18W51A0595	Lean Data Technologies	VISM/CSE/LDT-12

33	ALAKAM JYOTHI PRAKASH	18W51A0502	Mesmer Technologies	VISM/CSE/MesTec h-01
34	B ARCHANA	18W51A0503	Mesmer Technologies	VISM/CSE/MesTec h-02
35	B S JAYARAJ	18W51A0506	Mesmer Technologies	VISM/CSE/MesTec h-03
36	BUKYA PRAMEELA	18W51A0509	Mesmer Technologies	VISM/CSE/MesTec h-04
37	C REDDI KALYAN	18W51A0514	Mesmer Technologies	VISM/CSE/MesTec h-05
38	GONUGUNTLA SAI USHASH	18W51A0529	Mesmer Technologies	VISM/CSE/MesTec h-06
39	J HIMA BINDU	18W51A0533	Mesmer Technologies	VISM/CSE/MesTec h-07
40	KATLAKANTI TEJESWAR REDDY	18W51A0542	Mesmer Technologies	VISM/CSE/MesTec h-08
41	M SYED MIZBA TABASSUM	18W51A0555	Mesmer Technologies	VISM/CSE/MesTec h-09
42	P SASIKALA	18W51A0566	Mesmer Technologies	VISM/CSE/MesTec h-10
43	P DILEEP KUMAR REDDY	18W51A0571	Mesmer Technologies	VISM/CSE/MesTec h-11
44	POLICE FOWZIYA SULTHANA	18W51A0574	Mesmer Technologies	VISM/CSE/MesTec h-12
45	SYED AYESHA	18W51A0593	Mesmer Technologies	VISM/CSE/MesTec h-13

46	T HARSHAVARDHAN	18W51A0597	Mesmer Technologies	VISM/CSE/MesTec h-14
47	M NAVEEN KUMAR REDDY	18W51A0553	Palle Technologies	VISM/CSE/Palletec h-01
48	B S JAYARAJ	18W51A0506	WIPRO	VISM/CSE/Wipro- 01
49	MELAVOI SHUSHRITHA	18W51A0560	WIPRO	VISM/CSE/Wipro- 02

CAYm3 (2019-20)

S.No	Student Name	Enrollment No.	Employee Name	Appointment Letter Reference No. with Date
1	B ANJU	17W51A0501	Confianza Solutions	VISM/CSE/Confinza- 01
2	BARRE BHARATHKUMAR REDDY	17W51A0503	Confianza Solutions	VISM/CSE/Confinza- 02
3	BIJINEMULLA IMRAN	17W51A0504	Confianza Solutions	VISM/CSE/Confinza- 03
4	G CHANDANA	17W51A0513	Confianza Solutions	VISM/CSE/Confinza- 04
5	GORA DILEEP	17W51A0518	Confianza Solutions	VISM/CSE/Confinza- 05
6	KANUGONDA BABU REDDY	17W51A0527	Confianza Solutions	VISM/CSE/Confinza- 06
7	M DHAMODHAR	17W51A0533	Confianza	VISM/CSE/Confinza-

			Solutions	07
8	MANDEM MRUDULA REDDY	17W51A0540	Confianza Solutions	VISM/CSE/Confianza- 08
9	MAYAKUNTA DEEPIKA	17W51A0541	Confianza Solutions	VISM/CSE/Confianza- 09
10	MUNGANI VENKATA SHIVA REDDY	17W51A0547	Confianza Solutions	VISM/CSE/Confianza- 10
11	PENUGONDA PALLAVI	17W51A0554	Confianza Solutions	VISM/CSE/Confianza- 11
12	VEERAMREDDY REDDY SEKHAR REDDY	16W51A0574	Genex Technologies	VISM/CSE/Genex-20
13	CHAKKA VIKAS	17W51A0506	Genex Technologies	VISM/CSE/Genex-01
14	CHAKRA VIJAYALAKSHMI	17W51A0507	Genex Technologies	VISM/CSE/Genex-02
15	GALIGUTTA JYOTHI	17W51A0516	Genex Technologies	VISM/CSE/Genex-03
16	K RUHIYA BANU	17W51A0522	Genex Technologies	VISM/CSE/Genex-04
17	K MAHENDRA REDDY	17W51A0523	Genex Technologies	VISM/CSE/Genex-05
18	KOLLABAILU NAVYA	17W51A0528	Genex Technologies	VISM/CSE/Genex-06
19	MUNGANI SRAVANI	17W51A0535	Genex Technologies	VISM/CSE/Genex-07
20	MUNDLA GANGADHAR REDDY	17W51A0546	Genex Technologies	VISM/CSE/Genex-08

21	PANDIPATI NARASIMHULU	17W51A0549	Genex Technologies	VISM/CSE/Genex-09
22	PULETI VISHNU VARDHAN	17W51A0556	Genex Technologies	VISM/CSE/Genex-10
23	PUTTA REDDY DEEPA	17W51A0558	Genex Technologies	VISM/CSE/Genex-11
24	R DEEPA	17W51A0561	Genex Technologies	VISM/CSE/Genex-12
25	SHAIK BASHEER AHMED	17W51A0567	Genex Technologies	VISM/CSE/Genex-13
26	THELLAMEKHALA SIVASANKARA	17W51A0572	Genex Technologies	VISM/CSE/Genex-14
27	V VANAJAMMA	17W51A0577	Genex Technologies	VISM/CSE/Genex-15
28	VADLAMUDI DIVYA	17W51A0579	Genex Technologies	VISM/CSE/Genex-16
29	VAKKALA PRAKASH	17W51A0580	Genex Technologies	VISM/CSE/Genex-17
30	Y JAYANTHKUMAR REEDDY	17W51A0583	Genex Technologies	VISM/CSE/Genex-18
31	REHAN KHAN	17W51A0584	Genex Technologies	VISM/CSE/Genex-19
32	BALAKA ANITHA	17W51A0502	Intergrated Digital Info	VISM/CSE/Idinfo-01
33	DAYYALA JAYASUDHA	17W51A0511	Intergrated Digital Info	VISM/CSE/Idinfo-02

34	KANNEMADUGU REKHA	17W51A0526	Intergrated Digital Info	VISM/CSE/Idinfo-03
35	KOTTI LAVANYA	17W51A0531	Intergrated Digital Info	VISM/CSE/Idinfo-04
36	MADDURI CHANDANA	17W51A0538	Intergrated Digital Info	VISM/CSE/Idinfo-05
37	PASALOLLA RAM MOHAN REDDY	17W51A0551	Intergrated Digital Info	VISM/CSE/Idinfo-06
38	REDDIPALLI ABHILASH REDDY	17W51A0563	Intergrated Digital Info	VISM/CSE/Idinfo-07
39	REDDY SHAIK MOHAMMED ASRAR	17W51A0564	Intergrated Digital Info	VISM/CSE/Idinfo-08
40	SHAIK AYESHA	17W51A0566	Intergrated Digital Info	VISM/CSE/Idinfo-09
41	V RADHA	17W51A0578	Intergrated Digital Info	VISM/CSE/Idinfo-10
42	D KARTHEEK KUMAR REDDY	17W51A0509	Mesmer Technologies	VISM/CSE/Mes Tech-01
43	G RAVINDRA REDDY	17W51A0514	Mesmer Technologies	VISM/CSE/Mes Tech-02
44	GOLLA SIREESHA	17W51A0517	Mesmer Technologies	VISM/CSE/Mes Tech-03
45	KADIRI KIRAN KUMAR	17W51A0524	Mesmer Technologies	VISM/CSE/Mes Tech-04
46	MACHIREDDIGARI LAKSHMIDEVI	17W51A0536	Mesmer Technologies	VISM/CSE/Mes Tech-05

47	PAPPIREDDY MOUNIKA	17W51A0550	Mesmer Technologies	VISM/CSE/Mes Tech-06
48	PEDDAJOLLU MAMATHA	17W51A0553	Mesmer Technologies	VISM/CSE/Mes Tech-07
49	PURUM DEVI SAI PRASAD	17W51A0557	Mesmer Technologies	VISM/CSE/Mes Tech-08
50	S AFRIN	17W51A0565	Mesmer Technologies	VISM/CSE/Mes Tech-09
51	SHAIK MOHAMMAD PARVEEZ	17W51A0568	Mesmer Technologies	VISM/CSE/Mes Tech-10
52	SHAIK SHAZIYA SULTANA	17W51A0569	Mesmer Technologies	VISM/CSE/Mes Tech-11
53	THONAKANACHERUVU ARSHIYA	17W51A0573	Mesmer Technologies	VISM/CSE/Mes Tech-12
54	T BHANUPRAKASH REDDY	17W51A0574	Mesmer Technologies	VISM/CSE/Mes Tech-13
55	THUMPARA CHETHAN	17W51A0575	Mesmer Technologies	VISM/CSE/Mes Tech-14
56	VANGASAM RAJANI	17W51A0581	Mesmer Technologies	VISM/CSE/Mes Tech-15
57	VANISE BADRI	17W51A0582	Mesmer Technologies	VISM/CSE/Mes Tech-16
58	DAVADI SAI PRANATHI	17W51A0510	T-edge	VISM/CSE/ Tedge-01
59	G REDDISEKHAR REDDY	17W51A0519	T-edge	VISM/CSE/ Tedge-02

60	KOTHAUDAMALA SAIKRISHNA	17W51A0529	T-edge	VISM/CSE/ 03	Tedge-
61	MOOLINTI MAMATHA	17W51A0543	T-edge	VISM/CSE/ 04	Tedge-
62	R ANAND BABU	17W51A0560	T-edge	VISM/CSE/ 05	Tedge-
63	S BHANU PRAKASH	17W51A0570	T-edge	VISM/CSE/ 06	Tedge-
64	SYED MEHRAJ	17W51A0571	T-edge	VISM/CSE/ 07	Tedge-
65	MAHENDRA G	17W51A0586	T-edge	VISM/CSE/ 08	Tedge-

4.6 Professional Activities (20/20)

4.6.1 Professional societies/ chapters and organizing engineering events (5/5)

The Department has active membership of renowned professional societies and own student club Society.

Tech Titans Club -Departmental Student Club Society

Department of Computer Science and Engineering had a Student Club by the name “**Tech Titans Club**”. Under this club the students are encouraged to participate in different events. The administration structure of the Club consists of Staff and Students as members. Various activities and events are organized under different categories in each academic year.

4.6.2 Publication of technical magazines, newsletters, etc. (5/5)

(The Department shall list the publications in college magazine and department newsletter)

College Magazine- e-Vikas

The institution has a half yearly e-magazine with the name “e-Vikas”. This magazine is initiated since 2019 and is emerged as a platform to represent the contribution from students and faculty of the college. The college follows well-defined guidelines for the magazine. The magazine consists of original technical articles, poetry, stories, literary articles, and trending information, knowing new technologies, quizzes, and buzz words, interactive stories from the students and faculty members, which are selected by the editor. The magazine committee consists of a chief editor, an editor and an editorial board which consists of faculty and students.

Department Newsletter: Tech Tidbits

The Head of the Department along with faculty coordinator conducts a meeting with the students to select the student editors. Two interested students will be selected as student editors. Every month, the activities conducted in the department are recorded and documented. At the end of the Semester, these documents are properly designed and the Newsletter of that Semester will be released.

S. No.	Name of The Newsletter	Periodicity	Year
1	Tech Tidbits, October-December, 2023	Half Yearly	CAY (2023-24)
2	Tech Tidbits, October-December, 2022	Half Yearly	CAYm1 (2022-23)
3	Tech Tidbits, October-March, 2022	Half Yearly	CAYm1 (2022-23)
4	Tech Tidbits, October-December, 2021	Half Yearly	CAYm2 (2020-21)
5	Tech Tidbits, October-March, 2021	Half Yearly	CAYm2 (2020-21)
6	Tech Tidbits, October-December, 2020	Half Yearly	CAYm3 (2019-20)
7	Tech Tidbits, October-March, 2020	Half Yearly	CAYm3 (2019-20)

Table4.6.2.1: List of Publication of Newsletters

4.6.3 Participation in inter-institute events by students of the program of study (10/10)

List of workshops/guest lecture organized under the departmental societies:

Academic Year 2023-2024				
Sl. No	Event	Date	Resource Person with Designation	% of students attended
1	3 days' work shop on computer network	15-11-2023 TO 18-11-2023	Mr. Jaffer from AP - TASK	65
2	3day work shop on operating system	11-04-2023 TO 15-04-2023	Mr. Mruthyunjay from AP - TASK	86
Academic Year 2022-2023				

3	1 Day Work shop on Grammars	03-10-2022	Mr.Vamshi Reddy AP - TASK	75
4	One day Work shop on Advance in cloud computing	18-10-2022	Mr.A.Kamalakar, COIGN EDU & IT Services, Hyd.	78
5	3-day Work shop on java	12-11-2022 to 15-11-2022	Mr. Shiban & Umar	89
6	Work shop on security threats	3-11-2022	Mrs.P.Jahanavi Sudha COIGN EDU & IT Services, Hyd.	75
Academic Year 2021-2022				
7	One day Work shop on Advance DS algorithms	08/04/2021	Mr.A.Swamy, COIGN Services Pvt. Ltd, Hyd	86
8	Guest Lecture on big data	01/03/2021	Mr.Nadeem, Software Engineer- IBM, Bangalore	85
9	3 Days Work shop on Python	8/03/2021	Dr. A. Arun Kumar, Professor	76
10	Guest Lecture on design algorithms	14/09/2021	A.Purna chander Reddy CJIT- Jangaon	68

List of activities organized under the departmental societies with collaborative institutions

S.No	Name of the Institution /Industry/ Corporate house	Year of signing and Duration	List of Activities	Location	No. of Students attended
1	Sri Vencei Technologies	2023 (3 Years)	Project Training	Tirupati	86
2	PALS	2023 (Indefinite)	Summer Internship	Chennai	85
3	College Dhekho	2023 (1 year)	Training	Gurgaon	76
4	College Dunia	2023 (1 year)	Training	New Delhi	68
5	Sangameswara Electricals	2022 (Indefinite)	Internship	Madanapalle	50
6	Sorting Hat Technologies Pvt Ltd	2022 (1 year)	Internship	Bangalore	40
7	Sree Bhalaji Industries Pvt Ltd	2021 (Indefinite)	Project Training	Madanapalle	45
8	RJS International Multidisciplinary Research Foundation	2021 (Indefinite)	Training	Bangalore	60
9	Sunrise Industries	2020 (Indefinite)	Project Training	Madanapalle	30

Criterion 5	Faculty Information and Contributions	175.09/200
--------------------	--	-------------------

5. FACULTY INFORMATION AND CONTRIBUTIONS

Note: Please provide details for the faculty of the department, cumulative information for all the shifts for all academic years starting from current year in above format in Annexure - II.

Annexure - II COMPUTER SCIENCE & ENGINEERING STAFF LIST FOR THE ACADEMIC YEAR 2023-24

S.No	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor /Associate Professor	Date of Joining the Institution	Department	Specialization	Research paper Publication	Ph.D. Guidance	Faculty Receiving Ph.D. during the assessment years	Currently Associated (Y/N) Date of Leaving (In Case Currently Associated is ("No"))	Nature of Association(Regular /Contract)
		Degree (Highest Degree)	University	Year of attaining higher qualification											
1	Dr. R VASANTH SELVA KUMAR	PhD	Annamalai University	01/03/2021	Yes	ASSOCIATE PROFESSOR & HOD	01/04/2021	03/08/2020	CSE	CSE	2	1	01/03/2021	Yes	Regular

2	Dr.B LAXMIKANTHA	PhD	OPJS University	15/11/2016	No	PROFESSOR	06/06/2022	06/06/2022	CSE	CSE	1		15/11/2016	Yes	Regular
3	DR J VANITHA VANI	PhD	karunya university	13/05/2015	Yes	PROFESSOR	01/06/2021	01/06/2021	CSE	CSE	1		13/05/2015	Yes	Regular
4	DR G SANKAR	PhD	Pondicherry university	06/06/2016	Yes	ASSOCIATE PROFESSOR	07/04/2021	07/04/2021	CSE	CSE	1		06/06/2016	Yes	Regular
5	Dr. G KISHORE KUMAR	PhD	JJTU	09/11/2022	Yes	ASSOCIATE PROFESSOR	09/11/2022	20/06/2022	CSE	CSE	1		09/11/2022	Yes	Regular
6	Dr.E NAGARJUNA	PhD	Hindustan university	02/11/2016	Yes	PROFESSOR	06/07/2023	06/07/2023	CSE	CSE	1		02/11/2016	Yes	Regular
7	DR G MANIKANTA	PhD	Annamalai University	08/03/2021	Yes	ASSOCIATE PROFESSOR	06/06/2022	06/06/2022	CSE	CSE	1		08/03/2021	Yes	Regular

8	Dr. V HEMASREE	PhD	VTE	22/11/2023	Yes	ASSOCIATE PROFESSOR	10/01/2020	03/07/2017	CSE	CSE	0	I	22/11/2023	Yes	Regular
9	Mrs. B JYOTHSNA	M.TECH	JNTUA	01/09/2012	Yes	Professor	10/01/2020	03/07/2017	CSE	CSE	3	I	I	Yes	Regular
10	Mr. P VISWANATHA REDDY	M.TECH	Bharath University	02/05/2011	Yes	ASSOCIATE PROFESSOR	10/01/2020	08/09/2014	CSE	CSE	0	I	I	Yes	Regular
11	Mr. A SRINIVASAN	M.TECH	Anna University	12/06/2014	Yes	ASSOCIATE PROFESSOR	10/01/2020	03/07/2019	CSE	CSE	0	I	I	Yes	Regular
12	Mr. D SANJEEVA REDDY	M.TECH	JNTUA	21/03/2016	Yes	ASSISTANT PROFESSOR		03/02/2020	CSE	SE	0	I	I	Yes	Regular
13	Mrs.B SASIKALA	M.TECH	JNTUA	18/12/2012	No	ASSISTANT PROFESSOR		03/07/2017	CSE	CSE	0	I	I	31/08/2023	Regular

14	Mrs. T SARADA	M.TECH	JNTUA	16/08/2017	Yes	ASSISTANT PROFESSOR		01/12/2017	CSE	SE	0	I	I	Yes	Regular
15	Mr.D RAMAKANTH	M.TECH	JNTUA	10/06/2016	No	ASSISTANT PROFESSOR		17/12/2020	CSE	CSE	0	I	I	24/08/2023	Regular
16	Mrs. I DEEPIKA	M.TECH	JNTUA	21/09/2015	Yes	ASSISTANT PROFESSOR		01/07/2019	CSE	CSE	0	I	I	Yes	Regular
17	Mrs. Y BASANTHI	M.TECH	JNTUA	15/11/2016	Yes	ASSISTANT PROFESSOR		01/07/2021	CSE	CSE	1	I	I	Yes	Regular
18	Mrs. G S GOWTHAMI KUMARI	M.TECH	JNTUA	01/06/2017	Yes	ASSISTANT PROFESSOR		16/08/2021	CSE	CSE	0	I	I	Yes	Regular
19	Mr. C. PRAVALLIKA	M.TECH	JNTUA	20/07/2016	Yes	ASSISTANT PROFESSOR		03/08/2023	CSE	CSE	0	I	I	Yes	Regular

20	Mr. M SIVA KUMAR REDDY	M.TECH	JNTUA	06/09/2012	Yes	ASSISTANT PROFESSOR		17/01/2022	CSE	CSE	0			Yes	Regular
21	Mr.K RAMANJULU	M.TECH	JNTUA	06/10/2017	Yes	ASSISTANT PROFESSOR		17/08/2020	CSE	CSE	0			Yes	Regular
22	Mr.K ANJINEYULU	M.TECH	JNTUA	05/07/2017	Yes	ASSISTANT PROFESSOR		24/08/2020	CSE	CSE	0			Yes	Regular
23	Mr. G S ARUN KUMAR	M.TECH	JNTUA	15/07/2015	Yes	ASSISTANT PROFESSOR		14/02/2022	CSE	CSE	0			Yes	Regular
24	Mrs.G MADHAVI	M.TECH	JNTUA	09/10/2015	Yes	ASSISTANT PROFESSOR		21/02/2022	CSE	SE	0			Yes	Regular
25	Mrs. K VIJAYA LAKSHMI	M.TECH	JNTUA	05/07/2011	Yes	ASSISTANT PROFESSOR		10/10/2022	CSE	CSE	0			Yes	Regular

26	Mrs. P MUNAVIJAYA LAKSHMI	M.TECH	JNTUA	06/10/2015	Yes	ASSISTANT PROFESSOR		02/01/2023	CSE	CSE	0	I	I	Yes	Regular
27	Mrs. N ARUNA SANDHYA	M.TECH	JNTUK	10/12/2015	Yes	ASSISTANT PROFESSOR		10/08/2020	CSE	CSE	0	I	I	Yes	Regular
28	Mrs. R VASATH KUMARI	M.TECH	VTE	21/01/2017	Yes	ASSISTANT PROFESSOR		10/05/2023	CSE	CSE	0	I	I	Yes	Regular

**COMPUTER SCIENCE & ENGINEERING
STAFF LIST FOR THE ACADEMIC YEAR 2022-23**

S.No	Name of the Faculty Member	Qualification		Association with the Institution	Designation	Date on which Designated as Professor /Associate Professor	Date of Joining the Institution	Department	Specialization	Research paper Publication	Ph.D. Guidance	Faculty Receiving Ph.D. during the assessment years	Currently Associated (Y/N) Date of Leaving (In Case Currently Associated is ("No"))	Nature of Association (Regular /Contract)
		Degree(Highest Degree)	University Year of attaining higher qualification											

1	Dr.V SENTHIL MURUGAN	PhD	Annamalai University	06/07/2017	No	PROFESSOR	04/08/2017	04/08/2017	CSE	CSE	1	-	06/07/2017	02/01/2023	Regular
2	Dr. R VASANTH SELVA KUMAR	PhD	Annamalai University	01/03/2021	Yes	ASSOCIATE PROFESSOR & HOD	01/04/2021	03/08/2020	CSE	CSE	5	I	01/03/2021	Yes	Regular
3	Dr.B LAXMIKANTHA	PhD	OPJS University	15/11/2016	Yes	PROFESSOR	06/06/2022	06/06/2022	CSE	CSE	1	I	15/11/2016	Yes	Regular
4	DR J VANITHA VANI	PhD	karunya university	13/05/2015	Yes	PROFESSOR	01/06/2021	01/06/2021	CSE	CSE	1	I	13/05/2015	Yes	Regular
5	DR G SANKAR	PhD	Pondicherry university	06/06/2016	Yes	ASSOCIATE PROFESSOR	07/04/2021	07/04/2021	CSE	CSE	1	I	06/06/2016	Yes	Regular
6	Dr. G KISHORE KUMAR	PhD	JITU	09/11/2022	Yes	ASSOCIATE PROFESSOR	09/11/2022	20/06/2022	CSE	CSE	3	I	09/11/2022	Yes	Regular
7	DR G MANIKANTA	PhD	Annamalai University	08/03/2021	Yes	ASSOCIATE PROFESSOR	06/06/2022	06/06/2022	CSE	CSE	1	I	08/03/2021	Yes	Regular

8	Mrs. V HEMASREE	M.TECH	VTE	22/11/2023	Yes	ASSOCIATE PROFESSOR	10/01/2020	03/07/2017	CSE	CSE	4	I	-	Yes	Regular
9	Mrs. B JYOTHSNA	M.TECH	JNTUA	01/09/2012	Yes	Professor	10/01/2020	03/07/2017	CSE	CSE	3	I	'	Yes	Regular
10	Mr. P VISWANATHA REDDY	M.TECH	Bharath University	02/05/2011	Yes	ASSOCIATE PROFESSOR	10/01/2020	08/09/2014	CSE	CSE	3	I	'	Yes	Regular
11	Mr. A SRINIVASAN	M.TECH	Anna University	12/06/2014	Yes	ASSOCIATE PROFESSOR	10/01/2020	03/07/2019	CSE	CSE	1	I	'	Yes	Regular
12	Mr. D SANJEEVA REDDY	M.TECH	JNTUA	21/03/2016	Yes	ASSISTANT PROFESSOR		03/02/2020	CSE	SE	1	I	'	Yes	Regular
13	Mrs.B SASIKALA	M.TECH	JNTUA	18/12/2012	Yes	ASSISTANT PROFESSOR		03/07/2017	CSE	CSE	0	I	'	Yes	Regular
14	Mrs. T SARADA	M.TECH	JNTUA	16/08/2017	Yes	ASSISTANT PROFESSOR		01/12/2017	CSE	SE	3	I	'	Yes	Regular

15	Mr.D RAMAKANTH	M.TECH	JNTUA	10/06/2016	Yes	ASSISTANT PROFESSOR		17/12/2020	CSE	CSE	0			Yes	Regular
16	Mrs. I DEEPIKA	M.TECH	JNTUA	21/09/2015	Yes	ASSISTANT PROFESSOR		01/07/2019	CSE	CSE	2			Yes	Regular
17	Mrs. Y BASANTHI	M.TECH	JNTUA	15/11/2016	Yes	ASSISTANT PROFESSOR		01/07/2021	CSE	CSE	3			Yes	Regular
18	Mrs. G S GOWTHAMI KUMARI	M.TECH	JNTUA	01/06/2017	Yes	ASSISTANT PROFESSOR		16/08/2021	CSE	CSE	2			Yes	Regular
19	Mr. M SIVA KUMAR REDDY	M.TECH	JNTUA	06/09/2012	Yes	ASSISTANT PROFESSOR		17/01/2022	CSE	CSE	1			Yes	Regular
20	Mr.M VEERESH BABU	M.TECH	JNTUH	06/12/2010	No	ASSOCIATE PROFESSOR	10/01/2020	22/12/2016	CSE	CS	1			13/05/2023	Regular

21	Mr.K RAMANJULU	M.TECH	JNTUA	06/10/2017	Yes	ASSISTANT PROFESSOR		17/08/2020	CSE	CSE	0			Yes	Regular
22	Mr.K ANJINEYULU	M.TECH	JNTUA	05/07/2017	Yes	ASSISTANT PROFESSOR		24/08/2020	CSE	CSE	1			Yes	Regular
23	Ms.SHIKHA PADMA KUMAR	M.TECH	NICHE	06/05/2014	No	ASSISTANT PROFESSOR		01/02/2023	CSE	CSE	0			30/06/2023	Regular
24	Mr. G S ARUN KUMAR	M.TECH	JNTUA	15/07/2015	Yes	ASSISTANT PROFESSOR		14/02/2022	CSE	CSE	0			Yes	Regular
25	Mrs. G MADHAVI	M.TECH	JNTUA	09/10/2015	Yes	ASSISTANT PROFESSOR		21/02/2022	CSE	SE	0			Yes	Regular
26	Mrs. K VIJAYA LAKSHMI	M.TECH	JNTUA	05/07/2011	Yes	ASSISTANT PROFESSOR		10/10/2022	CSE	CSE	0			Yes	Regular

27	Mrs. N ARUNA SANDHYA	M.TECH	JNTUK	10/12/2015	Yes	ASSISTANT PROFESSOR		10/08/2020	CSE	CSE	0	1	1	Yes	Regular
----	----------------------	--------	-------	------------	-----	---------------------	--	------------	-----	-----	---	---	---	-----	---------

**COMPUTER SCIENCE & ENGINEERING
STAFF LIST FOR THE ACADEMIC YEAR 2021-22**

S.No	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor / Associate Professor	Date of Joining the Institution	Department	Specialization	Research paper Publication	Ph.D. Guidance	Faculty Receiving Ph.D. during the assessment years	Currently Associated (Y/N) Date of Leaving (In Case Currently Associated is("No"))	Nature of Association (Regular /Contract)
		Degree(Highest Degree)	University	Year of attaining higher qualification											
1	Dr.V SENTHIL MURUGAN	PhD	Annamalai University	06/07/2017		PROFESSOR	04/08/2017	04/08/2017	CSE	CSE	3	3	06/07/2017	Yes	Regular
2	DR J VANITHA VANI	PhD	karunya university	13/05/2015	Yes	PROFESSOR	01/06/2021	01/06/2021	CSE	CSE	3	-	13/05/2015	Yes	Regular

3	Dr. R VASANTH SELVA KUMAR	PhD	Annamalai University	01/03/2021	Yes	ASSOCIATE PROFESSOR & HOD	01/04/2021	03/08/2020	CSE	CSE	2	.	01/03/2021	Yes	Regular
4	DR G SANKAR	PhD	Pondicherry university	06/06/2016	Yes	ASSOCIATE PROFESSOR	07/04/2021	07/04/2021	CSE	CSE	2	.	06/06/2016	Yes	Regular
5	Mrs. B JYOTHSNA	M.TECH	JNTUA	01/09/2012	Yes	Professor	10/01/2020	03/07/2017	CSE	CSE	4	.	.	Yes	Regular
6	Mrs. V HEMASREE	M.TECH	VTE	22/11/2023	Yes	ASSOCIATE PROFESSOR	10/01/2020	03/07/2017	CSE	CSE	3	.	.	Yes	Regular
7	Mr. P VISWANATHA REDDY	M.TECH	Bharath University	02/05/2011	Yes	ASSOCIATE PROFESSOR	10/01/2020	08/09/2014	CSE	CSE	1	.	.	Yes	Regular
8	Mr. A SRINIVASAN	M.TECH	Anna University	12/06/2014	Yes	ASSOCIATE PROFESSOR	10/01/2020	03/07/2019	CSE	CSE	1	.	.	Yes	Regular

9	Mr. D SANJEEVA REDDY	M.TECH	JNTUA	21/03/2016	Yes	ASSISTANT PROFESSOR		03/02/2020	CSE	SE	1	'	'	Yes	Regular
10	Mrs.B SASIKALA	M.TECH	JNTUA	18/12/2012	Yes	ASSISTANT PROFESSOR		03/07/2017	CSE	CSE	0	'	'	Yes	Regular
11	Mrs. T SARADA	M.TECH	JNTUA	16/08/2017	Yes	ASSISTANT PROFESSOR		01/12/2017	CSE	SE	1	'	'	Yes	Regular
12	Mr.D RAMAKANTH	M.TECH	JNTUA	10/06/2016	Yes	ASSISTANT PROFESSOR		17/12/2020	CSE	CSE	0	'	'	Yes	Regular
13	Mrs. I DEEPIKA	M.TECH	JNTUA	21/09/2015	Yes	ASSISTANT PROFESSOR		01/07/2019	CSE	CSE	1	'	'	Yes	Regular
14	Mrs. Y BASANTHI	M.TECH	JNTUA	15/11/2016	Yes	ASSISTANT PROFESSOR		01/07/2021	CSE	CSE	1	'	'	Yes	Regular

15	Mrs. G S GOWTHAMI KUMARI	M.TECH	JNTUA	01/06/2017	Yes	ASSISTANT PROFESSOR		16/08/2021	CSE	CSE	1	.	.	Yes	Regular
16	Mr.M VEERESH BABU	M.TECH	JNTUH	06/12/2010	Yes	ASSOCIATE PROFESSOR	10/01/2020	22/12/2016	CSE	CS	2	.	.	Yes	Regular
17	Mr.K LAKSHMAIAH	M.TECH	SSIT	20/04/2007	No	ASSOCIATE PROFESSOR	01/06/2018	01/06/2018	CSE	CSE	1	.	.	30/09/2022	Regular
18	Mr.S NAGARAJAN	M.TECH	Anna University	10/05/2010	No	ASSISTANT PROFESSOR		01/07/2019	CSE	CSE	0	.	.	02/08/2022	Regular
19	Mr.T NAGARAJU YADAV	M.TECH	JNTUA	10/03/2016	No	ASSISTANT PROFESSOR		22/07/2019	CSE	CSE	1	.	.	02/08/2022	Regular
20	Mr.K RAMANJULU	M.TECH	JNTUA	06/10/2017	Yes	ASSISTANT PROFESSOR		17/08/2020	CSE	CSE	1	.	.	Yes	Regular

21	Mr.K ANJINEYULU	M.TECH	JNTUA	05/07/2017	Yes	ASSISTANT PROFESSOR		24/08/2020	CSE	CSE	1	.	.	Yes	Regular
22	Mr.G VEERENDRANATH	M.TECH	JNTUA	09/05/2016	No	ASSISTANT PROFESSOR		03/02/2020	CSE	CSE	0	.	.	09/08/2022	Regular
23	Mr.B GHOUSE ARIFULLA KHAN	M.TECH	JNTUA	05/10/2013	No	ASSISTANT PROFESSOR		03/02/2020	CSE	CSE	0	.	.	15/11/2021	Regular
24	Mrs. N ARUNA SANDHYA	M.TECH	JNTUK	10/12/2015	Yes	ASSISTANT PROFESSOR		10/08/2020	CSE	CSE	1	.	.	Yes	Regular

**COMPUTER SCIENCE & ENGINEERING
STAFF LIST FOR THE ACADEMIC YEAR 2020-21**

S.No	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which Designated as Professor /Associate Professor	Date of Joining the Institution	Department	Specialization	Research paper Publication	Ph.D. Guidance	Faculty Receiving Ph.D. during the assessment years	Currently Associated (Y/N) Date of Leaving (In Case Currently Associated is("No"))	Nature of Association(Regular /Contract)
		Degree(Highest Degree)	University	Year of attaining higher qualification											
1	Dr.V SENTHIL MURUGAN	PhD	Annamalai University	06/07/2017		PROFESSOR	04/08/2017	04/08/2017	CSE	CSE	4	1	06/07/2017	Yes	Regular
2	Dr. R VASANTH SELVA KUMAR	PhD	Annamalai University	01/03/2021	Yes	ASSOCIATE PROFESSOR & HOD	01/04/2021	03/08/2020	CSE	CSE	1	-	01/03/2021	Yes	Regular
3	DR G SANKAR	PhD	Pondicherry university	06/06/2016	Yes	ASSOCIATE PROFESSOR	07/04/2021	07/04/2021	CSE	CSE	-		06/06/2016	Yes	Regular

4	Mrs. B JYOTHSNA	M.TECH	JNTUA	01/09/2012	Yes	Professor	10/01/2020	03/07/2017	CSE	CSE	2	1	1	Yes	Regular
5	Mrs. V HEMASREE	M.TECH	VTE	22/11/2023	Yes	ASSOCIATE PROFESSOR	10/01/2020	03/07/2017	CSE	CSE	1	1	1	Yes	Regular
6	Mr. P VISWANATHA REDDY	M.TECH	Bharath University	02/05/2011	Yes	ASSOCIATE PROFESSOR	10/01/2020	08/09/2014	CSE	CSE	2	1	1	Yes	Regular
7	Mr. A SRINIVASAN	M.TECH	Anna University	12/06/2014	Yes	ASSOCIATE PROFESSOR	10/01/2020	03/07/2019	CSE	CSE	2	1	1	Yes	Regular
8	Mr. D SANJEEVA REDDY	M.TECH	JNTUA	21/03/2016	Yes	ASSISTANT PROFESSOR		03/02/2020	CSE	SE	2	1	1	Yes	Regular
9	Mrs.B SASIKALA	M.TECH	JNTUA	18/12/2012	Yes	ASSISTANT PROFESSOR		03/07/2017	CSE	CSE	0	1	1	Yes	Regular

16	Mr.T NAGARAJU YADAV	M.TECH	JNTUA	10/03/2016	Yes	ASSISTANT PROFESSOR		22/07/2019	CSE	CSE	1	I	I	Yes	Regular
17	Mr.K RAMANJULU	M.TECH	JNTUA	06/10/2017	Yes	ASSISTANT PROFESSOR		17/08/2020	CSE	CSE	1	I	I	Yes	Regular
18	Mr.K ANJINEYULU	M.TECH	JNTUA	05/07/2017	Yes	ASSISTANT PROFESSOR		24/08/2020	CSE	CSE	0	I	I	Yes	Regular
19	Mr.G VEERENDRANA TH	M.TECH	JNTUA	09/05/2016	Yes	ASSISTANT PROFESSOR		03/02/2020	CSE	CSE	0	I	I	Yes	Regular
20	Mr.B GHOUSE ARIFULLA KHAN	M.TECH	JNTUA	05/10/2013	Yes	ASSISTANT PROFESSOR		03/02/2020	CSE	CSE	0	I	I	Yes	Regular
21	Mrs. N ARUNA SANDHYA	M.TECH	JNTUK	10/12/2015	Yes	ASSISTANT PROFESSOR		10/08/2020	CSE	CSE	0	I	I	Yes	Regular

22	Mr.M UDAY PRAKASH REDDY	M.TECH	Hindustan university	05/04/2011	No	ASSISTANT PROFESSOR		03/07/2017	CSE	CSE	0	-	-	13/10/2020	Regular
----	-------------------------------	--------	-------------------------	------------	----	------------------------	--	------------	-----	-----	---	---	---	------------	---------

5.1. Student-Faculty Ratio (SFR) (18/20)

(To be calculated at Department Level)

No. of UG Programs in the Department (n):1

No. of PG Programs in the Department (m):1

No. of Students in UG 2nd Year=**u1**

No. of Students in UG 3rd Year= **u2**

No. of Students in UG 4th Year= **u3**

No. of Students in PG 1st Year= **p1**

No. of Students in PG 2nd Year= **p2**

No. of Students = Sanctioned Intake + Actual admitted lateral entry students

(The above data to be provided considering all the UG and PG programs of the department)

S=Number of Students in the Department = UG1 + UG2 +.. +UGn + PG1 + ...PGn

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Student Teacher Ratio (STR) = S / F

Year	CAY (2023-24)	CAYm1 (2022-23)	CAYm2 (2021-22)
u1.1	125	123	121
u1.2	123	121	123
u1.3	121	123	120

UG1	369	367	364
p1.1	18	18	18
p1.2	18	18	18
PG1	36	36	36
Total No. of Students in the Department (S)	405	403	400
No. of Faculty in the Department (F)	F1 = 26	F2 = 25	F3 = 23
Student Faculty Ratio (SFR)	SFR1=S1/F1 = 405/26= 15.58	SFR2= S2/F2 = 403/25 = 16.12	SFR3= S3/F3 = 400/23 = 17.39
Average SFR	SFR=(SFR1+SFR2+SFR3)/3 = 16.36		

Table B.5.1 Student Teacher Ratio

Note: Marks to be given proportionally from a maximum of 20 to a minimum of 10 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1.marks distribution is given as below:

<=15 - 20 Marks

<=17 - 18 Marks

<=19 - 16 Marks

<=21 - 14 Marks

<=23 - 12 Marks

<=25 - 10 Marks

>25.0 -0 Marks

All the faculty whether regular or contractual (except part-time or hourly based), will be considered. The contractual faculty appointed with any terminology whatsoever, who have taught for 2 consecutive semesters with or without break between the 2 semesters in corresponding academic year on full-time basis shall be considered for the purpose of calculation in the faculty student ratio. However, following will be ensured in case of contractual faculty

1. Shall have the AICTE prescribed qualifications and experience.
2. Shall be appointed on full time basis and worked for consecutive two semesters with or without break between the 2 semesters during the particular academic year under consideration.
3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit.

5.1.1 Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total Number of Regular Faculty in The Department	Total number of Contractual faculty in the Department
CAY (2023-24)	26	0
CAYm1(2022-23)	25	0

CAYm2 (2021-22)	23	0
-----------------	----	---

Table 5.1.1 information about the regular and contractual faculty

5.2. Faculty Cadre Proportion (25/25)

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required = $1/9 \times$ Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

F2: Number of Associate Professors required = $2/9 \times$ Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

F3: Number of Assistant Professors required = $6/9 \times$ Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. of students (N) as per 5.1

The following is calculated as SFR as 20:1

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY (2023-24)	2	2	4	6	13	18
CAYm1 (2022-23)	2	2	4	4	13	19
CAYm2 (2021-22)	2	2	4	2	13	19
Average Numbers	RF1= 2	AF1=2	RF2= 4	AF2= 4	RF3= 15	AF3= 18.6

Table B.5.2

Cadre Ratio marks = $\times 12.5$

Cadre ratio marks = $1 + 1 \times 0.6 + 1.38 \times 0.4 \times 12.5 = 25$

$$\left[\left[\frac{AF1}{RF1} \right] + \left[\frac{AF2 \times 0.6}{RF2} \right] + \left[\frac{AF3 \times 0.4}{RF3} \right] \right] \times 12.5$$

- If $AF1 = AF2 = 0$ then zero marks
- Maximum marks to be limited if it exceeds 25
(Refer calculation in SAR)

Example: Intake = 60 (i.e., Total no of students = 180); Required number of Faculty: 9; RF=1, RF=2 and RF3=6

Case 1: $AF1/RF1=1; AF2/RF2=1; AF3/RF3=1$; Cadre proportion marks = $(1+0.6+0.4) \times 12.5 = 25$

Case 2: $AF1/RF1=1; AF2/RF2=3/2; AF3/RF3=5/6$; Cadre proportion marks = $(1+0.9+0.3) \times 12.5 =$ Limited to 25

Case 3: $AF1/RF1=0; AF2/RF2=1/2; AF3/RF3=8/6$; Cadre proportion marks = $(0+0.3+0.53) \times 12.5 = 10.4$

5.3.Faculty Qualification (17.09/25)

FQ =2.5 x [(10X +4Y)/F] where **x** is no. of regular faculty with Ph.D., **Y** is no. of regular faculty with M.Tech. **F** is no. of regular faculty required to comply 20:1 Faculty Student ratio (no. of faculty and no. of students required are to be calculated as per 5.1)

Years	X	Y	F	FQ=2.5 x [(10X +4Y)/F]
CAY (2023-24)	8	18	20	$2.5 \times [(80 +72)/20]=19$
CAY _{m1} (2022-23)	6	19	20	$2.5 \times [(60 +76)/20]=17$
CAY _{m2} (2021-22)	4	19	19	$2.5 \times [(40 +76)/19]=15.26$
Average Assessment				17.09

Table B.5.3 Faculty Qualification

5.4. Faculty Retention (20/25)**No. of faculty members in CAY_{m1}= 24 CAY= 25**

Item (% of faculty retained during the period of assessment keeping CAY_{m2} as base year)	Marks (Allotted)	Marks (Obtained)
>=90% of required Faculty members retained during the period of assessment keeping CAY _{m2} as base year	25	20 (82%)
>=75% of required Faculty members retained during the period of assessment keeping CAY _{m2} as base year	20	
>=60% of required Faculty members retained during the period of assessment keeping CAY _{m2} as base year	15	
>=50% of required Faculty members retained during the period of assessment keeping CAY _{m2} as base year	10	
<50% of required Faculty members retained during the period of assessment keeping CAY _{m2} as base year	0	

Table B. 5.4

Table Percentage of Faculty Retention

Item	CAY	CAYm1
No. of Faculty Retained	15	18
Total No. of required faculty in CAYm2	20	
% of Faculty Retained	75	90
Faculty Retained	82%	

S.No	CAYm2 (2021- 22)	CAYm1 (2022- 23)	CAY (2023- 24)
1.	DR J VANITHA VANI	DR J VANITHA VANI	DR J VANITHA VANI
2.	Dr. R VASANTH SELVA KUMAR	Dr. R VASANTHSELVA KUMAR	Dr. R VASANTH SELVA KUMAR
3.	DR G SANKAR	DR G SANKAR	DR G SANKAR
4.	Mrs. B JYOTHSNA	Mrs. B JYOTHSNA	Mrs. B JYOTHSNA
5.	Mrs. V HEMASREE	Mrs. V HEMASREE	Dr. V HEMASREE
6.	Mr. P VISWANATHA REDDY	Mr. P VISWANATHA REDDY	Mr. P VISWANATHA REDDY
7.	Mr. A SRINIVASAN	Mr. A SRINIVASAN	Mr. A SRINIVASAN
8.	Mr. D SANJEEVA REDDY	Mr. D SANJEEVA REDDY	Mr. D SANJEEVA REDDY
9.	Mrs. T SARADA	Mrs. T SARADA	Mrs. T SARADA
10.	Mrs. I DEEPIKA	Mrs. I DEEPIKA	Mrs. I DEEPIKA
11.	Mrs. Y BASANTHI	Mrs. Y BASANTHI	Mrs. Y BASANTHI
12.	Mrs. G S GOWTHAMI KUMARI	Mrs. G S GOWTHAMI KUMARI	Mrs. G S GOWTHAMI KUMARI
13.	Mr.K RAMANJULU	Mr.K RAMANJULU	Mr.K RAMANJULU

14.	Mr.K ANJINEYULU	Mr.K ANJINEYULU	Mr.K ANJINEYULU
15.	Mrs.N ARUNA SANDHYA	Mrs.N ARUNA SANDHYA	Mrs. N ARUNA SANDHYA
16.	Mr.M VEERESH BABU	Mr.M VEERESH BABU	
17.	Mr. D RAMAKANTH	Mr. D RAMAKANTH	
18.	Mrs. B SASIKALA	Mrs. B SASIKALA	
19.	Dr.V SENTHIL MURUGAN		
20.	Mr.G VEERENDRANATH		
21.	Mr.K LAKSHMAIAH		
22.	Mr.S NAGARAJAN		
23.	Mr.T NAGARAJU YADAV		

Table: List of Faculty Retained

5.5. Innovations by the Faculty in Teaching and Learning (20/20)

The Computer Science & Engineering faculty strives to improve teaching and learning experiences through new techniques. These are clearly stated in both our Department Records and on the Institute website. The faculty's innovations in teaching and learning are outlined as follows.

i. App based learning

Teaching using applications on students' smartphones. Apps on the Play Store improve learning by providing answers to complex issues with various variables. The apps, their features, topic benefits, and associated links are listed below:

S. No	App details	Courses benefited	Link to install the app
1	Pauls v lab	Python,C,Machine Learning, Natural Language Processing, Computer Networks	https://www.vlab.co.in/participating-institute-nitk-surathkal
2	intellipaat	Software Testing	https://intellipaat.com
3	Edi Mate	Engineering Graphics	https://play.google.com/store/apps/details?id=com.cadimate.edimatepro YouTube explanation Link: https://www.youtube.com/watch?v=fKOsNCEgNXk

ii. Solution Bank

Exam questions are typically offered by topic experts and can help clarify concepts. Solutions to these papers might help students understand the many approaches to analyzing and solving concepts.

S. N o	Innovative Teaching Method & Features provided	Courses benefited	Link
1	Quora, Unacademy	Data Structures, Algorithms, Operating Systems, FLAT	http://unacademy.com/ https://www.quora.com/

iii. Collaborative Tools

Engineering requires a collaborative effort between management and ground-level workers to execute a strategy developed by a few individuals.

Nowadays, students can use collaborative platforms to collect and synthesize knowledge from various resources, unlike in the past.

S.N o.	Name of the Tool	Courses benefited	Relevant Link
1	Google docs for notes sharing. Important Links to additional material i.e. apps, websites, videos, journals.	IoT, Deep Learning, Machine Learning, Artificial Intelligence	https://docs.google.com/document/create?addon_store

iv. Internet for distribution of notes & academic information

S. No.	Name of the Tool	Courses benefited	Relevant Link
1	<ul style="list-style-type: none"> Word press Blog for academic activities Department events MCQ tests & Feedback Notes & Assignments Solutions to previous papers Discussion Forum 	C, Data Structures, Python,EDA with R, Advanced Web Application Development	https://wordpress.com/forums/topic/computer-science-2/

v. Flipped Class

Students are provided with videos and study materials to help them with problem-solving, advanced applications, debates, conversations, and clarifying doubts.

S. No	Innovative Teaching Method & Features provided	Courses benefited	Link
1	YouTube Channel for screen recorded videos explaining the concept	DBMS, Artificial Intelligence, C,Operating systems, computer Networks, Network Security	https://github.com/Developer-Y/cs-video-courses https://www.youtube.com/watch?v=xLetJpcjHS0 https://www.youtube.com/c/SimplilearnOfficial/videos https://www.youtube.com/c/BhaskarJogiSQLandMSBI

vi. PowerPoint Presentation (Prezi):

Students are provided with videos and study materials to help them with problem-solving, advanced applications, debates, conversations, and clarifying doubts.

S. No	Innovative Teaching Method & Features provided	Courses benefited	Link
1	Prezi - It is an online platform that provides infinite canvas on which all the data can be placed with suitable scaling. Then a sequence can be planned that zooms in to relevant parts of that infinite canvas. It is a presentation tool that's more engaging, persuasive, and effective than PowerPoint.	Natural Language Processing, Compiler Design	https://prezi.com/ https://prezi.com/presentation-template/lesson-plan-template-business-presentation-chalk/

vii. Plickers:

The previously created Objective quiz is exhibited on the projector via plickers.com.

Each student's unique bar code will be scanned with an internet-

connected smartphone using the Plickers app. This feedback system ensures students understand class subjects accurately. If a class receives a high number of incorrect responses, further classes may be scheduled.

S. No	Innovative Teaching Method & Features provided	Courses benefited	Link
1	Plickers: It is the free card activity that millions of educators use to do a formative assessment within the classroom.	Software Engineering, Software Project Management	https://www.plickers.com/

viii. Google forms for Quiz

Conducting objective quizzes might be challenging due to the high volume of papers and time-consuming corrections required. Automated solutions on the internet reduce time and make materials more reusable.

S. No	Innovative Teaching Method & Features provided	Courses benefited	Link
1	Google forms for MCQ / Objective tests	Software Testing, Java,DBMS	https://docs.google.com/forms/d/1d_-K2ltTiiHODsdryGsr4yOhVcIvFrwjBWgSJezS6Zk/edit

ix. Charts / Models

Charts are used in labs to better comprehend machine and operation.

Students gain a better understanding of functions when subjects are linked together. Charts assist students grasp the practical relevance of several topics, as a single part may require knowledge from multiple subjects.

S. N o	Innovative Teaching Method & Features provided	Courses benefited	Link
1	Google Charts, Chart blocks	DBMS, Advanced Data structures & algorithms, Machine Learning	https://developers.google.com/chart https://chartblocks.io/

x. **Virtual Labs**

Virtual laboratories are another technique to overcome the restrictions of physical labs.

Students can do experiments in a simulated environment created by software engineers, providing a nearly equivalent experience to those conducted in the lab. The institute has applied to vlabs to become a nodal centre.

In addition to traditional teaching methods such as chalk and talk, faculty members uses

- The digital library offers expert video lectures from famous resource persons, allowing professors and students to access NPTEL e-Tutorials, e-Journals, and video conference rooms.
- Modern teaching aids such as LCD projectors, Internet-enabled computers, and Wi-Fi laptops are commonly used in classrooms and other learning environments.

-
- Faculty members use Open-Source tools such as the digital library, MATLAB, and P-Spice to grasp course content.
 - Faculty members are encouraged to participate in short-term courses, webinars, staff development programs, and seminars to maintain advanced knowledge and abilities. power point presentations in all classes.
 - Use Role play in the classroom is an excellent technique to push pupils outside of their comfort zone and improve their interpersonal skills. The role-playing strategy will help a student grasp how academic material will apply to his daily tasks. Role play is a simulation in which each player is assigned a specific role. After reading their job descriptions, the participants act out their roles by engaging with one another. Examples of roles assigned to students include teacher, interviewer, and entrepreneur.
 - Use seminars and interactive conversations. This strategy requires students to give presentations on specific themes. During the session, students can engage in interactive discussions by asking questions.
 - Lab manuals with sample readings are accessible in the laboratories for students' use. Every year, when the syllabus changes, all lab guides are changed and updated.

5.6. Faculty as participants in Faculty development/training activities/STTPs (15/15)

- A Faculty scores maximum five points for participation
- Participation in 2 to 5 days Faculty development program: 3 Points
- Participation >5 days Faculty development program: 5 points

S.No	Name of the Faculty	Max. 5 per Faculty		
		CAYm1 (2023-22)	CAYm2 (2022-21)	CAYm3 (2021-20)
1.	Dr.Vasanthselva Kumar	5	5	5
2.	Dr. V. Senthil Murugan	-	3	5
3.	Dr.B Lakshmikantha	5	-	-
4.	Dr. J. Vanitha Vani	3	3	0
5.	DR. G. Sankar	5	3	0
6.	Dr. G Kishore kumar	5	-	-
7.	Dr.G Manikanta	3	-	-
8.	Dr.V Hemasree	5	3	3
9.	Mr.B Jyothsna	5	3	3

10.	Mr.P Viswanatha Reddy	5	5	5
11.	Mr. A. Srinivasan	5	5	5
12.	Mr. D. Sanjeeva Reddy	5	5	3
13.	Mrs. B. Sasikala	3	5	5
14.	Mrs. T. Sarada	3	3	3
15.	Mr. D. Ramakanth	-	3	3
16.	Mrs.Y Basanthi	3	3	-
17.	Mrs.I. Deepika	3	5	3
18.	Mrs. G.S Gowthami Kumari	3	3	3
19.	Mr.M Siva Kumar Reddy	3	-	-
20.	Mr.M Veeresh Babu	3	5	5
21.	Mr. K. Ramanjulu	-	3	3
22.	Mr. K. Anjineyulu	-	3	-
23.	Mr.G S Arun Kumar	3	-	-
24.	Mrs.B Madhavi	5	-	-
25.	Mrs.K Vijaya Lakshmi	5	-	-

26.	Mrs. N. Aruna Sandhya	3	3	-
27.	Mr. K. Lakshmaiah	-	5	5
28.	Mr. S. Nagarajan	-	5	5
29.	Mr. T. Nagaraju Yadav	-	3	3
30.	Mr. G. Veerendranath	-	-	3
31.	Mr.M Uday Prakash Reddy	-	-	5
Sum		88	84	72
RF= Number of Faculty required to comply with 20:1 Student- Faculty ratio as per 5.1		20.25	20.15	20
Assessment = $3 \times$ (Sum/0.5RF) (Marks limited to 15)		26.07	25.01	21.6
Average assessment over three years (Marks limited to 15) =24.23				

Table B.5.6

5.7. Research and Development (20/30)

5.7.1. Academic Research (10/10)

Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.

- Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (6)
- Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute (4)

All relevant details shall be mentioned.

5.7.1 (A) List of Publications/Conferences:

CAYm1 (2022-23)

S.No	Name of the Faculty	Title of the Paper	Name of the Journal	International / National Journal with Impact Factor	Year of Publication & ISBN/ISSN Number
1.	Dr.R Vasanthselva Kumar	Analysis of Facial Sentiments: A	International Journal of Scientific Research	International	July-August 2023. ISSN : 2456-3307, Volume 9 Issue 4, pp. 166-171

		Deep-Learning Way	in Computer Science, Engineering and Information Technology (IJSRCSEIT)		
2.	Dr.R Vasanthselva Kumar	Sentiment Analysis from Text Using LSTM and BERT	International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT)	International	July-August 2023 ISSN : 2456-3307, Volume 9 Issue 4, pp. 226-230
3.	Dr.R Vasanthselva Kumar	Speech To Text Software is Called Live Chart	International Journal of Scientific Research in Computer Science, Engineering and Information Technology,	International	2023 Volume 9, Issue 4, PP. 172-177. ISSN : 2456-3307

4.	Dr.V Hemasree	Analysis of Facial Sentiments : A Deep-Learning Way	International Journal of Scientific Research in Computer Science, Engineering and Information Technology	International	Volume 9, Issue 4, July-August-2023, Page Number 166-171, ISSN : 2456-3307
5.	Dr.V Hemasree	Facial Skin Texture and Distributed Dynamic Kernel Support Vector Machine (DDKSVM) Classifier for Age Estimation in Facial	Journal of Internet Services and Information Security (JISIS)	International	volume: 12, number: 4 (November), pp. 84-101, DOI: 10.58346/JISIS.2022.I4.006

		Wrinkles			
6.	Dr.V Hemasree	Wrinkles Based Age Detection Using Adaptive Neuro Fuzzy Inference System	GRADIVA REVIEW JOURNAL	International	VOLUME 8 ISSUE 8 2022, PAGE NO: 72, ISSN NO : 0363-8057
7.	Dr.G Kishore Kumar	Blockchain & cloud of things integration: Architecture, applications and challenges	Material Science & Technology of pure and Applied Mathematics	International	2022 Volume 21 No. 06 Nov- Dec 2022, ISSN: 1009-0299
8.	Dr.G Kishore Kumar	An analysis of block chain with cloud of	NCATCS	National	2022 April-2022, (ISBN No: 978-93-88808-31-6)

		things integration and applications			
9.	Dr.G Kishore Kumar	An analysis of block chain Technology usage in Global Health systems	Industrial Engineering Journal	International	2023 ISSN: 0970-2555 , Volume : 52, Issue 3, March : 2023 Pages: 360-372.
10.	Mrs.Y Basant h i	Energy Efficient Cluster Based Routing for Wireless sensor networks:A survey	IEEE	International	September-2023

11.	Mrs.B Jyothsna	Machine Learning algorithm for Detecting DDOS attacks in Wireless sensor Networks	IJERCSC	International	September 2023
12.	Mrs. B. Jyothsna	Deep Learning Model for intrusion detection in SDN Networks	International Conference ICOTL	International	December-2023
13.	Mrs.B Jyothsna	Speech to text software is called live chart	IJSCSEIT	International	July-August-2023
14.	Dr.R Vasanthselva Kumar	Domain Integration in WWW resources for	2nd National Level conference on information Security	National	2022

		peer learners personalized guidance	(NCRTIS'12) organized by Mailam Engineering College Mailam		
15.	Dr.V Hemasree	Age Detection using a Probabilistic Neural Network based on Data Science	International Conference on Recent Advances in ARTIFICIAL INTELLIGENCE AND DATA SCIENCE	International	September -2022
16.	Mr.M Veeresh Babu	Data Mining Techniques for Text Mining Using Clustering and Classifiers	International Journal of Applied science Engineering and Management	International	ISSN2454- 9940www.ijsem.org Vol 14, Issuse.2 May 2023
17.	Mr K Anjineyulu	Data Mining Techniques	International Journal of	International	ISSN2454- 9940www.ijsem.org Vol 14,

		for Text Mining Using Clustering and Classifiers	Applied science Engineering and Management		Issuse.2 May 2023
18.	Mrs.I Deepika	Implementing blockchain-based medical file sharing systems with decentilization attributes	International journal of Basic and Applied Research	International	May 2023 Volume 13 ISSUE 2 ISSN 2249-3352
19.	Mrs.V Hemasree	Implementing blockchain-based medical file sharing systems with decentilization attributes	International journal of Basic and Applied Research	International	May 2023 Volume 13 ISSUE 2 ISSN 2249-3352
20.	Mrs.B Jyothsna	Implementing blockchain-based medical	International journal of Basic and Applied	International	May 2023 Volume 13 ISSUE 2 ISSN 2249-3352

		file sharing systems with decentilization attributes	Research		
21.	Mr.P Viswanatha Reddy	Status updates Sorting and Analyzing Data using Machine Learning Models	International Journal of Engineering & Science Research	International	ISSN 2277-2685 IJESR/June. 2022/ Vol-12/Issue-2/1-11
22.	Mrs.V Hemasree	Evaluating Deep Learning Techniques using Twitter Statistics	International Journal of Engineering & Science Research	International	ISSN 2277-2685 IJESR/July. 2022/ Vol-12/Issue-3/1-8
23.	Mr.P Viswanatha Reddy	Diffuse liver disease diagnosed by ultrasound elastography	International Journal of Engineering & Science Research	International	ISSN 2277-2685 IJESR/July.2022/ Vol-12/Issue-3/1-8

		Theory and practice in healthcare			
24.	Mr.A Srinivasan	Diffuse liver disease diagnosed by ultrasound elastography Theory and practice in healthcare	International Journal of Engineering & Science Research	International	ISSN 2277-2685 IJESR/July.2022/ Vol-12/Issue-3/1-8
25.	Mr.D Sanjeeva Reddy	Recognition of Underwater Sonar Signals via Incremental Data Stream Mining and Conflict Analysis	International Journal of Mathematical Modelling, simulation and Application	International	ISSN 0973-8355www.ijmmsa.com Vol 14,Issue 3.July 2022
26.	Mrs.T Sarada	The Broad Learning	International Journal of	International	Volume 14, Issue 3, July 2022

		System's Universal Approximation Capability and Its Structural Variations	Mathematical Modelling,simulat ion and Application		
27.	Mrs.B Jyothsna	The Broad Learning System's Universal Approximation Capability and Its Structural Variations	International Journal of Mathematical Modelling,simulat ion and Application	International	Volume 14, Issue 3, July 2022
28.	Dr.R Vasanth Selva Kumar	The Broad Learning System's Universal Approximation Capability and Its Structural Variations	International Journal of Mathematical Modelling,simulat ion and Application	International	Volume 14, Issue 3, July 2022

29.	Mrs.I Deepika	A Machine Learning-Based Nonlinear Regression Application for Processing Geomagnetic Data Reconstruction	International Journal of Mathematical Modelling, simulation and Application	International	ISSN 0973-8355www.ijmmsa.com Vol 14,Issuse 3.July 2022
30.	Mrs.Y Basanthi	A Machine Learning-Based Nonlinear Regression Application for Processing Geomagnetic Data Reconstruction	International Journal of Mathematical Modelling, simulation and Application	International	ISSN 0973-8355www.ijmmsa.com Vol 14,Issuse 3.July 2022

31.	Mrs.V Hemasree	A Machine Learning-Based Nonlinear Regression Application for Processing Geomagnetic Data Reconstruction	International Journal of Mathematical Modelling, simulation and Application	International	ISSN 0973-8355www.ijmmsa.com Vol 14,Issue 3.July 2022
32.	Mrs.Y Basanthi ,	Deterring unauthorized reproduction of photographs with the use of both emergable and invisible watermarks	International Journal of Mathematical Modelling, simulation and Application	International	ISSN 0973-8355www.ijmmsa.com Vol 14,Issue 3.July 2022
33.	Mrs.I Deepika ,	Deterring	International	International	ISSN 0973-

		unauthorized reproduction of photographs with the use of both emergable and invisible watermarks	Journal of Mathematical Modelling, simulation and Application		8355www.ijmmsa.com Vol 14, Issue 3. July 2022
34.	Mrs.T Sarada	Deterring unauthorized reproduction of photographs with the use of both emergable and invisible watermarks	International Journal of Mathematical Modelling, simulation and Application	International	ISSN 0973-8355 www.ijmmsa.com Vol 14, Issue 3. July 2022
35.	Mrs.G S Gowthami Kumari	Application of Deep Learning Techniques to	International Journal of Mathematical	International	ISSN 0973-8355 Vol 14, Issue 3. July 2022

		the Skin Disease Diagnosis and Classification Process	Modelling, simulation and Application		
36.	Mr.M Siva Kumar Reddy	Informal Scholarly Communication Through Social Networking Sites in the Social and Humanities Disciplines	International Journal of Mathematical Modelling, simulation and Application	International	ISSN 0973-835 Vol 14, Issue 3 July .2022
37.	Dr.J Vanitha Vani	Factors affecting the quality of webbased applications: a literature review and a	Journal of Current Science	National	ISSN NO: 9726 Volume 11 Issue 02 April 2023

		conceptual model			
38.	Mrs.B Jyothsna	Factors affecting the quality of webbased applications: a literature review and a conceptual model	Journal of Current Science	National	ISSN NO: 9726 Volume 11 Issue 02 April 2023
39.	Dr.B Laxmikantha	Using Visuals to Inspire Students' Original Thought in the Design Studio: Transforming Cinematic Environments into Real-	Journal of Current Science	National	ISSN NO: 9726-001X Volume 11 Issue 01 March 2023

		World Spaces			
40.	Mrs.B Jyothsna	An integrated anti-spam system by statistical machine learning base paper	Journal of Current Science	National	ISSN NO: 9726-001X Volume 11 Issue 02 June 2023
41.	Mrs.T Sarada	Evaluation of deep learning methods in twitter statistics emotion evaluation	Journal of Current Science	National	ISSN NO: 9726-001X Volume 11 Issue 02 April 2023
42.	Mr.P Viswanatha Reddy	Evaluation of deep learning methods in twitter statistics emotion evaluation	Journal of Current Science	National	ISSN NO: 9726-001X Volume 11 Issue 02 April 2023

43.	Mr.D Sanjeeva Reddy	Evaluation of deep learning methods in twitter statistics emotion evaluation	Journal of Current Science	National	ISSN NO: 9726-001X Volume 11 Issue 02 April 2023
-----	---------------------	--	----------------------------	----------	---

CAYm2 (2021-22)

S.No.	Name of the Faculty	Title/ Topic	Name of the Journal	International/ National Journal with Impact Factor	Year of Publicati on & ISBN/ISS N Number
1.	Dr.R Vasanthselva Kumar	Survey on Automatic water controlling system for garden using internet of things (IoT)	George Washington international law review	International	2021 Vol.- 07 Issue - 01 April-June 2021, , ISSN- 1534-9977, pp. 277-285

2.	Dr.V Senthil Murugan	Design and Development of Embedded/SQL Home Based Upper Limb Rehabilitation	International Journal of Healthcare Management	International	2022
3.	Dr.V Senthil Murugan	Implementation of wearable device for upper limb rehabilitation using Embedded IoT	International Journal of Engineering Systems Modelling and Simulation	International	2022
4.	Dr.V Senthil Murugan	5G VANETs:A Details Performance Analysis of Fusion Beam Forming for Vehicular Environment	Turkish Journal of Computer and Mathematics Education	International	2021 ISSN:5518-5533
5.	Dr.V Hemasree	Age Detection based on Facial	Turkish Journal of Computer and	International	Vol. 12 No. 6, 4535-4546, 2021

		Image using Fusion Extreme Learning Machine Classifier	Mathematics Education		
6.	Mrs.B Jyothsna	A new E-studying recommender framework	IJARCSET	International	2021
7.	Mr.M Veeresh Babu	Design and Development of Embedded/SQL Home Based Upper Limb Rehabilitation	International Journal of Healthcare Management	International	2022
8.	Mr.M Veeresh Babu	Implementation of wearable device for upper limb rehabilitation using Embedded IoT	International Journal of Engineering Systems Modelling and Simulation	International	2022
9.	Dr. J. Vanitha Vani	Maintaining Confidentiality	Mathematical Statistician and	International	2021 ISSN: 2094-

		when sharing health information with cloudlet	Engineering Applications		0343 Article Info Page Number: 550 - 560 Publication Issue: Vol 70 No. 2 (2021)
10.	Dr. J. Vanitha Vani	Plan and Execution of an equipment framework for ladie's Wellbeing	Mathematical Statistician and Engineering Applications	International	2021 ISSN: 2094-0343 Article Info Page Number: 603 - 610 Publication Issue: Vol 70 No. 2 (2021)
11.	Dr.R Vasanthselva Kumar	Automatic Classification of Kidney Diseases using Deep Learning Technique	National Conference on Recent Advances in Material Science and Dept of Manufacturing Engineering Annamalai University	National	2021
12.	Dr.V Senthil	VANET's:	International	International	2021

	Murugan	Performance analysis of fixed beam forming techniques for Vehicular Environments	Conference on Advance Computing and Innovative Technologies in Engineering		
13.	Mr.K Lakshmaiah	The SOFTmon Network for Software-Defined Networks	International Journal of Applied Science Engineering and Management	International	ISSN2454-9940 Vol 11, Issuse.2 May 2022
14.	Mr.D Sanjeeva Reddy	The SOFTmon Network for Software-Defined Networks	International Journal of Applied Science Engineering and Management	International	ISSN2454-9940 Vol 11, Issuse.2 May 2022
15.	Mrs.B Jyothsna	The era of online education	International Journal of Applied science Engineering and Management	International	Vol 11, Issuse 3. July 2020 ISSN2454-9940
16.	Mrs.T Sarada	The era of online education	International Journal of Applied science Engineering and Management	International	Vol 11, Issuse 3. July 2020 ISSN2454-9940

17.	Mr.P Viswanatha Reddy	Utilizing Chatbot Technology to Enhance Patient Outcomes	International journal of Basic and Applied Research	International	ISSN 2249-3352 May 2021 Volume 11 ISSUE 2
18.	Mrs.B Jyothsna	Utilizing Chatbot Technology to Enhance Patient Outcomes	International journal of Basic and Applied Research	International	ISSN 2249-3352 May 2021 Volume 11 ISSUE 2
19.	Mrs.V Hemasree	Utilizing Chatbot Technology to Enhance Patient Outcomes	International journal of Basic and Applied Research	International	ISSN 2249-3352 May 2021 Volume 11 ISSUE 2
20.	Mr.A Srinivasan	Deep Learning- Based Target Recognition and Localization	International journal of Basic and Applied Research	International	June 2021 Volume 11 ISSUE 2 ISSN 2249-3352
21.	Mr.D Sanjeeva Reddy	Deep Learning- Based Target Recognition and	International journal of Basic and Applied Research	International	June 2021 Volume 11 ISSUE 2

		Localization			ISSN 2249-3352
22.	Mrs.B Sasikala	Automatic Summarization Using an LDA- Based Similarity Measure	International journal of Basic and Applied Research	International	ISSN 2249-3352 June 2021 Volume 11 ISSUE 2
23.	Mrs.V Hemasree	Automatic Summarization Using an LDA- Based Similarity Measure	International journal of Basic and Applied Research	International	ISSN 2249-3352 June 2021 Volume 11 ISSUE 2
24.	Mr.A Srinivasan	Fault Message Detection in Social Media	International journal of Basic and Applied Research	International	
25.			International journal of Basic and Applied Research		May 2021 Volume 11 ISSN 2249-3352
26.	Dr.G Sankar	Fault Message Detection in Social Media	International journal of Basic and Applied Research	International	May 2021 Volume 11 ISSN 2249-3352
27.	Mrs.G S Gowthami	Machine Learning for the	International journal of Basic and Applied	International	ISSN 2249-3352 May 2021

	Kumari	Prediction of Car Popularity	Research		Volume 11 ISSUE 2
28.	Mr.K Ramajulu	Machine Learning for the Prediction of Car Popularity	International journal of Basic and Applied Research	International	ISSN 2249-3352 May 2021 Volume 11 ISSUE 2
29.	Mr.K Anjaneyulu	A Google Play Store Fraud Detection Method Based on Decision Trees	International journal of Basic and Applied Research	International	May 2022 Volume 12 ISSUE 2 ISSN 2249-3352
30.	Mrs.B Jyothsna	In Search of a Comprehensive Solution to Energy and Mobility Related Issues	International Journal of Engineering & Science Research	International	ISSN 2277-2685 IJESR/Jan. 2022/ Vol- 12/Issue-1/1-7
31.	Dr.J Vanitha Vani	Review, criteria, and expansions for intelligent personal health record systems	International Journal of Engineering & Science Research	International	ISSN 2277-2685 IJESR/Jan. 2022/ Vol- 12/Issue-1/1-5

32.	Mrs.Y Basanthi	Review, criteria, and expansions for intelligent personal health record systems	International Journal of Engineering & Science Research	International	ISSN 2277-2685 IJESR/Jan. 2022/ Vol- 12/Issue-1/1-5
33.	Dr.G Sankar	Helping with the Sport-Related E- Learning Document Proceduralization	International Journal of Engineering & Science Research	International	ISSN 2277-2685 IJESR/Jan.2022 / Vol-12/Issue- 1/1-5
34.	Mrs.I Deepika	Video Person Re- Identification using True-Color and Grayscale Images	International Journal of Engineering & Science Research	International	ISSN 2277-2685 IJESR/April. 2022/ Vol- 12/Issue-2/1-30
35.	Dr.G Manikanta	Interval Specification for Actually Concurrent Logic	International Journal of Engineering & Science Research	International	ISSN 2277-2685 IJESR/April. 2022/ Vol- 12/Issue-2/1-11
36.	Mrs.B Jyothsna	Support for the Visually Impaired with Text-to-	International Journal of Engineering & Science Research	International	ISSN 2277-2685 IJESR/April. 2022/ Vol-

		Speech (TTS) AI			12/Issue-2/1-8
37.	Mrs.K Vijaya Lakshmi	Approaches to Identifying False Profiles via the Use of Neural Networks	International Journal of Mathematical Modelling,simulation and Application	International	ISSN 0973-8355www.ijmmsa.com Vol 14, Issuse 3 July .2022
38.	Mrs.G Madhavi	Approaches to Identifying False Profiles via the Use of Neural Networks	International Journal of Mathematical Modelling,simulation and Application	International	ISSN 0973-8355www.ijmmsa.com Vol 14, Issuse 3 July .2022
39.	Mrs.K Vijaya Lakshmi	Improving Cloud Data Security via the Use of Digital Signatures in conjunction with Diffie-Hellman Key Exchange and Advanced Encryption Standard	International Journal of Mathematical Modelling,simulation and Application	International	ISSN 0973-8355www.ijmmsa.com Vol 14,Issuse 3 July .2022
40.	Mrs.K	Integrating Web	International Journal	International	ISSN 0973-

	Vijayalakshmi	Services into the Next Generation CEMIS	of Mathematical Modelling,simulation and Application		8355www.ijmms a.com Vol 14,Issuse 3.July. 2022
41.	Mrs.N Aruna Sandhya	Detecting Risky Driving Behavior with the Use of Deep Learning Fusions on Video	Journal of current science	National	ISSN NO: 9726-001X Volume 10 Issue 01 March 2022

CAYm3 (2020-21)

S.No.	Name of the Faculty	Title/ Topic	Name of the Journal	International/ National Journal with Impact Factor	Year of Publication & ISBN/ISSN Number
1.	Dr.V Senthil Murugan	Energy-Efficient Hybrid Secured Routing for 5G Vehicular	International Conference on Communication, Computing and Electronics Systems	International	2021

		Ad hoc Network (VANET)			
2.	Dr.V Senthil Murugan	IoT based Infant Healthcare System	Design Engineering	International	2021
3.	Dr.V Senthil Murugan	Medical Waste Classification, Collection, and Notification with Iot-Based Smart Dust Bins for Medical Applications	Design Engineering	International	2021 Doi.org/10.18280/isi.280115
4.	Dr.V Senthil Murugan	EIWMS: Enhanced Intelligent Warehouse	European Journal of Molecular & Clinical	International	2020

		Monitoring Systems 4.0	Medicine		
5.	Dr.V Senthil Murugan	An Intelligent Remote Monitoring for Lower Limb Rehabilitation Treatment using IoT	International Journal of Advanced Science and Technology	International	2020 ISSN:0976-6499
6.	Dr. R. Vasanthselvakumar	Automatic Detection and Classification of Chronic Kidney Diseases Using CNN Architecture	International Journal of Data Engineering and Communication Technology, Advances in Intelligent Systems and Computing	International	Vol. 1079, Springer, Singapore, pp. 735-744, January 2020 ISBN (Online): 978-981-15-1097-7. ISSN No.2194-5365 (Sci indexed) 2020
7.	Mr.M Veeresh Babu	IoT based Infant	Design Engineering	International	2021

		Healthcare System			
8.	Mr.M Veeresh Babu	An Intelligent Remote Monitoring for Lower Limb Rehabilitation Treatment using IoT	International Journal of Advanced Science and Technology	International	2020
9.	Mr.D Sanjeeva Reddy	Methods and instruments for developing domain ontologies	International Journal of Applied Science Engineering and Management	International	ISSN2454-9940 Vol 11, Issue.2 May 2020
10.	Mr.S Nagarajan	Methods and instruments for developing domain ontologies	International Journal of Applied Science Engineering and Management	International	ISSN2454-9940 Vol 11, Issue.2 May 2020
11.	Mr.T Nagaraju Yadav	An HMM-Based Speaker-	International Journal of Applied Science	International	ISSN2454-9940 Vol 11, Issue.2 July 2020

		Independent Isolated Speech Recognition System for the Tamil Language.	Engineering and Management		
12.	Mr.P Viswanatha Reddy	An HMM-Based Speaker-Independent Isolated Speech Recognition System for the Tamil Language.	International Journal of Applied Science Engineering and Management	International	ISSN2454-9940 Vol 11, Issue.2 July 2020
13.	Mrs.B Jyothsna	An HMM-Based Speaker-Independent Isolated	International Journal of Applied Science Engineering and Management	International	ISSN2454-9940 Vol 11, Issue.2 July 2020

		Speech Recognition System for the Tamil Language.			
14.	Mr.P Viswanatha Reddy	Disseminating Opinions, Positive and Negative, Through Online Communities	International Journal of Applied Science Engineering and Management	International	ISSN2454-9940 Vol 11, Issue.2 May 2020
15.	Mr.D Sanjeeva Reddy	Disseminating Opinions, Positive and Negative, Through Online Communities	International Journal of Applied Science Engineering and Management	International	ISSN2454-9940 Vol 11, Issue.2 May 2020
16.	Mrs.B Jyothsna	Disseminating Opinions, Positive and	International Journal of Applied Science	International	ISSN2454-9940 Vol 11, Issue.2 May 2020

		Negative, Through Online Communities	Engineering and Management		
17.	Mr.P Viswanatha Reddy	Symbolic Model Validation for Component Connectors Based on Channels	International Journal of Applied Science Engineering and Management	International	ISSN2454-9940 Vol 12, Issue. 3 July 2021
18.	Mr.D Sanjeeva Reddy	Symbolic Model Validation for Component Connectors Based on Channels	International Journal of Applied Science Engineering and Management	International	ISSN2454-9940 Vol 12, Issue. 3 July 2021
19.	Mr.A Srinivasan	Gene name recognition with systematic	International Journal of Applied Science Engineering and	International	ISSN2454-9940 Vol 11, Issue.4 Dec 2020

		feature assessment	Management		
20.	Mr.D Sanjeeva Reddy	Gene name recognition with systematic feature assessment	International Journal of Applied Science Engineering and Management	International	ISSN2454-9940 Vol 11, Issuse.4 Dec 2020
21.	Mr.A Srinivasan	A Context-Based Model for Mining Tourist Behavior Patterns	International Journal of Engineering & Science Research	International	ISSN 2277-2685 IJESR/Jan. 2021/ Vol-11/Issue-1/1-6
22.	Mr.K Ramajulu	A Context-Based Model for Mining Tourist Behavior Patterns	International Journal of Engineering & Science Research	International	ISSN 2277-2685 IJESR/Jan. 2021/ Vol-11/Issue-1/1-6

Table 5.7.1: List of papers published and conferences attended by faculty

5.7. Research and Development (20/30)**Book/Book Chapters**

S.No	Name of the Author	Title of the Book	Name of the Publisher	ISBN Number
1	Dr.R Vasanthselva Kumar	A text book of Internet of Things	RK Publications	ISBN-13 : 978- 8119140565, 265 pages

5.7.1 Academic Research (10/10)**5.7.1 (B.1) Ph.D. Awarded during assessment Period (4/4)**

CAYm1 (2022-23)

S.No.	Faculty Name	University	Research Area
1	Dr. V Hemasree	VTU	Computer Science and Engineering
2	Dr. G Kishore Kumar	Sri JJT University	Computer Vision

CAYm2 (2021-22)

S.No.	Faculty Name	University	Research Area
1	Dr. R Vasanth Selva Kumar	Annamalai University	Machine Learning
2	Dr G Manikanta	Annamalai University	Computer Vision

CAYm3 (2020-21)

S.No.	Faculty Name	University	Research Area
NIL			

Table 5.7.2: Faculty receiving **PhD.** during each assessment Year

5.7.1 (B.2) Ph.D. Guided

Research Guide	Name of the Scholar	Topic of the Research	University & Year of Registration	status
Dr. V Senthil Murugan	K Suresh Kumar Reddy	Congestion control in Networking	Annamalai University &2018	Awarded
	Mrs.B Saiskala	Resource Allocation in IoT	SRM University &2021	Under Guidance
	Mr.P Viswantha Reddy	Load Balancing in Cloud	SRM University &2020	SRM University
	Mrs.Y Basanthi	Energy Efficient Hierarchical routing for WSN using various optimization Techniques	SRM University &2022	SRM University

Table 5.7.3: Faculty guiding Ph.D scholars

5.7.1 (B.3) Faculty Pursuing Ph.D.

S.No	Faculty Name	Research Topic	University	Guide	Date of Registration	Number of quality publications in refereed / SCI Journals, citations, Books/ Book Chapters
1	Mr.P Viswanath Reddy	Load Balancing in Cloud	SRM Universi ty	Dr.V Senthil Muruga n	15/07/ 2021	1
2	Mrs.Y Basanthi	Energy Efficient Hierarchical routing for WSN using various optimization Techniques	SRM Universi ty	Dr.V Senthil Muruga n	23/07/ 2022	1
3	Mrs.B Sasikala	Resource Allocation in IoT	SRM Universi ty	Dr.V Senthil Muruga	23/07/ 2022	1

				n		
4	Mrs.B Jyothsna	DDOS Attacks in Machine Learning	Mohan Babu Universi ty	Dr. Jyoshna	12/12/ 2022	3
5	Mrs.T Sarada	Machine learning for Internet of Things	Mohan Babu Universi ty	Dr. Jyoshna	19/01/ 2024	1

Table 5.7.4: Details of Faculty Pursuing Ph.D

5.7.2. Sponsored Research (0/5)

- Funded research:

(Provide a list with Project Title, Funding Agency, Amount and Duration)Funding amount (Cumulative during CAYm1, CAYm2 and CAYm3):

Amount > 20 Lakh – 5 Marks

Amount >= 16 Lakh and <= 20 lakh

– 4 MarksAmount >= 12 Lakh and <

16 lakh – 3 Marks Amount >= 8

Lakh and < 12 lakh – 2 Marks

Amount >= 4 Lakh and < 8 lakh

– 1 Mark Amount < 4 Lakh

– 0 Mark

CAYm1(2022-23)

S. No.	Title of the Project	Funding Agency	Amount
1.	IoT based low-cost fire detection alarm system for safety of buildings	Viswam Educational Society	20000/-
2.	Heart disease prediction by using machine learning techniques	Viswam Educational Society	4000/-

CAYm2 (2021-22)

S. No.	Title of the Project	Funding Agency	Amount
1.	Online pharmacy management system	Viswam Educational Society	25000/-
2.	Mobile based college student communication portal application	Viswam Educational Society	12000/-

CAYm3(2020-21)

S. No.	Title of the Project	Funding Agency	Amount
1.	Biometric voting machine based on finger print pattern using IoT	Viswam Educational Society	18000/-
2.	Smart Irrigation System using IoT	Viswam Educational Society	8000/-

Cumulative Funding amount during CAYm1,CAYm2 and CAYm3 =87000/-

Table 5.7.2: Details of Funded research

5.7.3. Development Activities (10/10)

Provide details:

- Product Development
- Research Laboratories
- Instructional materials
- Working models/charts/monograms etc.

5.7.3. (A) Product Development:**CAYm1 (2022-23)**

S. No.	Title of the Product
1	A Robust Reputation management mechanism in federated cloud
2	Indoor object recognition by using deep learning
3	Detection and Prediction of Cyber Breaches using machine learning
4	Real time Object detection in clustered Scene using point feature matching

CAY m2 (2021-22)

S. No.	Title of the Product
1	Stock Administration Framework by using Django
2	Live Online Class Attendance using Face Recognition
3.	Smart detection of fake accounts on social media
4	Financial Fraud detection by analyzing human behaviour

CAY m3 (2020-21)

S. No.	Title of the Product
1	Android Location Alert System for Mobile Users
2	E-Authentication system using QR code and OTP
3	Smart Blood Bank as a service on cloud

Table 5.7.3(A) : Product Developed by faculty/Student**5.7.3. (B) Research Laboratories**

S. No.	Licensed Software Description / Hardware Description
1	MATLAB
2	Artificial Intelligence & Machine Learning
3	AI & ML Research Laboratory Kits—Aurdino-Uno, ESP Development Module Raspberry Pi Kit Software: Aurdino-IDE
4	PyCharm Community Edition
5	R Studio, Turbo C7, Eclipse, JDK1.8, MS Office
6	Arduino 1.8.19, HTML, Visual Studio
7	WALDEN, Globarena
8	Linux, Windows7

Table 5.7.3(B) : Hardware and Software

5.7.3. (C) Instructional materials

S. No.	Details
1	Multimedia Projector
2	Lab Manuals
3	NPTEL Videos
4	Assignments
5	PPTs
6	Subject Notes

Table 5.7.3(C): Instructional materials**List of instructional materials available in the department**

S. No.	Subject Name	Instructional Materials	Prepared by
1.	Computer Networks	Softcopy & Hard Copy	Mrs. Y. Basanthi
2.	Internet of Things	Softcopy & Hard Copy	Dr. R. Vasanthselvaku mar
3.	Advanced Software Quality & Testing	Softcopy & Hard Copy	Dr.G. Sankar
4.	Software Architecture	Softcopy & Hard Copy	Dr.G. Manikanta
5.	Design Patterns	Softcopy & Hard Copy	Dr.G. Kishore Kumar

6.	Artificial Intelligence	Softcopy & Hard Copy	Mrs. G. S. Gowthami Kumari
7.	Formal Languages and Automata Theory	Softcopy & Hard Copy	Mr.G.S. Arun Kumar
8.	Software Project Management	Softcopy & Hard Copy	Mrs.Madhavi
9.	MATLAB Programming for Engineers	Softcopy & Hard Copy	Mr. Nagendra
10.	Environmental Science	Softcopy & Hard Copy	Mrs. G.S. Gowthami Kumari
11.	Advanced Web Application Development	Softcopy & Hard Copy	Mrs. B. Jyothsna
12.	Advanced Data Structures & Algorithms	Softcopy & Hard Copy	Mr. D. Sanjeeva Reddy
13.	Object Oriented Programming Through Java	Softcopy & Hard Copy	Mrs.N.Aruna Sandhya
14.	Computer Organization	Softcopy & Hard Copy	Mr. M. Veeresh Babu

15.	Universal Human Values	Softcopy & Hard Copy	Mrs. K. Vijayalakshmi
16.	Discrete Mathematics & Graph Theory	Softcopy & Hard Copy	Mr. Vijay Kumar
17.	Digital Electronics& Microprocessors	Softcopy & Hard Copy	Mrs. G. Manjula
18.	Software Testing	Softcopy & Hard Copy	Mrs. V. Hemasree
19.	Cloud Computing	Softcopy & Hard Copy	Mr. P. Viswanatha Reddy
20.	Air pollution and control	Softcopy & Hard Copy	Mrs. K. Haritha
21.	Management Science	Softcopy & Hard Copy	Mr. Jayakrishna
22.	Advanced Data Structures and Algorithms	Softcopy & Hard Copy	Dr.J.Vanitha vani
23.	Research Methodology and IPR	Softcopy & Hard Copy	Dr. B. Lakshmikantha
24.	Dev Ops	Softcopy & Hard Copy	Dr. G. Kishore Kumar
25.	Global Warming and Climate Changes	Softcopy & Hard Copy	Mrs. Haritha

26.	Compiler Design	Softcopy & Hard Copy	Mrs. T. Sarada
27.	Machine Learning	Softcopy & Hard Copy	Mrs. K. Vijayalakshmi
28.	Internet of Things	Softcopy & Hard Copy	Mr. M. Veeresh Babu
29.	Software Testing	Softcopy & Hard Copy	Mrs. V. Hemasree
30.	Basic VLSI Design	Softcopy & Hard Copy	Mrs. Manjula
31.	Intellectual Property Rights & Patents	Softcopy & Hard Copy	Mrs. B. Sasikala
32.	Database Management Systems	Softcopy & Hard Copy	Mrs. I. Deepika
33.	Operating Systems	Softcopy & Hard Copy	Mrs. Y. Basanthi
34.	Software Engineering	Softcopy & Hard Copy	Mr. A. Srinivasan
35.	Organizational Behaviour	Softcopy & Hard Copy	Mrs. K. Vijaya Lakshmi
36.	Design Thinking for Innovation	Softcopy & Hard Copy	Mrs. G. S. Gowthami Kumari

5.7.3.(D) Working models/charts/monograms etc.

charts that are on display in every lab.

Numerous student-made models are on exhibit in the department's research laboratory. These prototype models aid students in gaining a better understanding of how modern technologies and fundamentals operate. This can also be applied to improve the process of teaching and learning.

CAYm1(2022-23)

S. No.	Working Models Developed
1	Bluetooth Based LED Scrolling System
2.	Traffic sign recognition by using deep learning
3	A secure information hiding scheme based on cryptography and steganography techniques

CAYm2(2021-22)

S. No.	Working Models Developed
1	Organ and blood donation app
2	Android based application for training and placement
3	Fruit disease detection and classification using Convolutional

	Neural Networks
--	-----------------

CAYm3(2020-21)

S. No.	Working Models Developed
1	Intelligent automated system for home
2	Student Result Analysis system

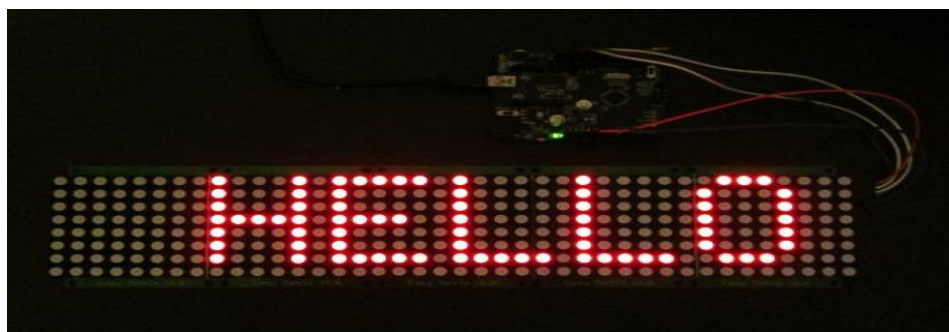
Table 5.7.3(D): Working Models

Fig: Bluetooth Based LED Scrolling System

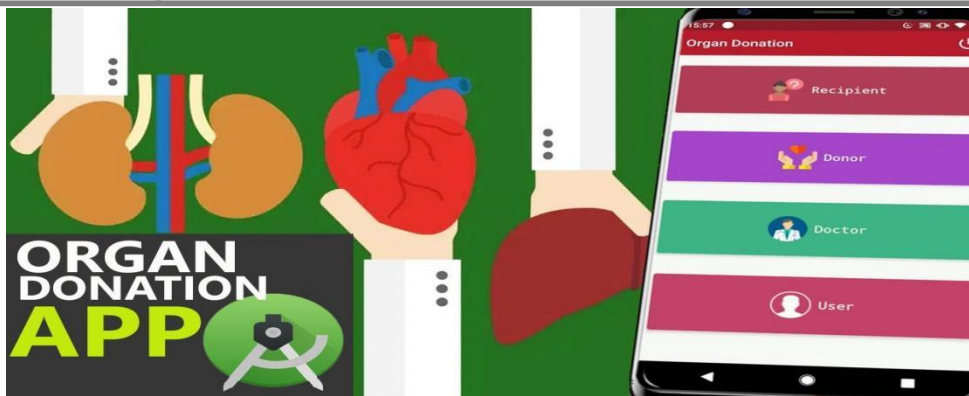


Fig:Organ and blood donation app

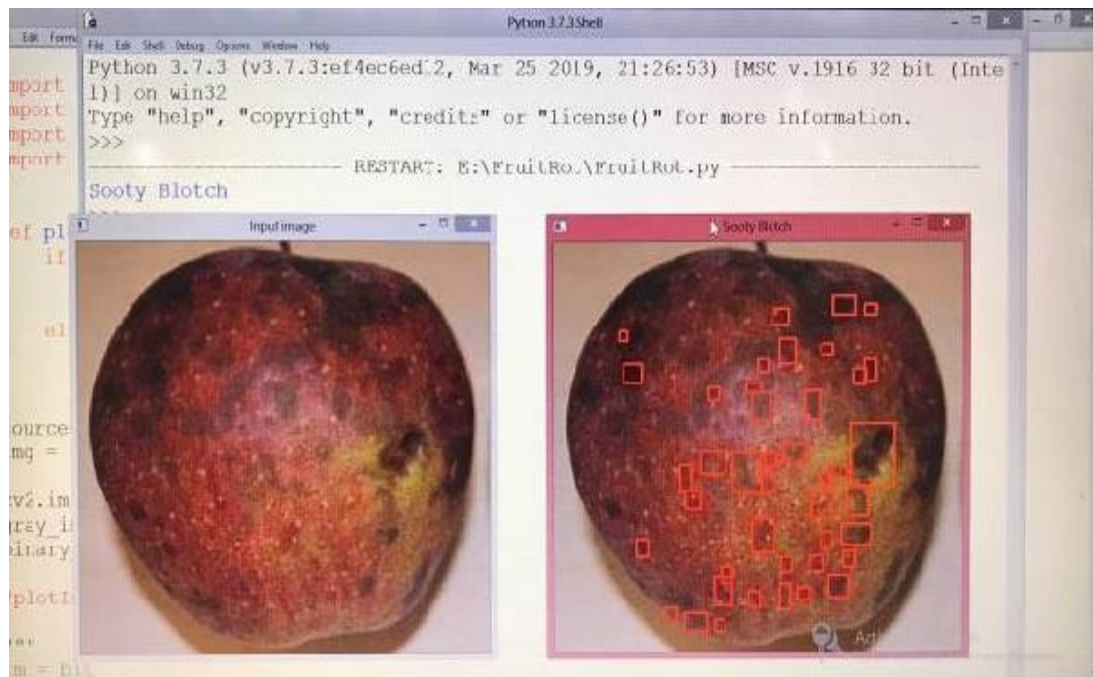


Fig: Fruit disease detection and classification using Convolutional Neural Networks



Fig. Intelligent automated system for home

5.7.4 Consultancy (from Industry) (0/5)

(Provide a list with Project Title, Funding Agency, Amount and Duration)Funding amount (Cumulative during CAYm1,CAYm2 and CAYm3):

The Dept. has MoUs with various CompaniesAmount >10 Lakh – 5Marks

Amount >=8 Lakh and <= 10 lakh– 4Marks Amount >=6 Lakh and < 8 lakh – 3 Marks Amount >=4 Lakh and < 6 lakh – 2 Marks

Amount>=2 Lakh and <4 lakh – 1 Mark

Amount < 2 Lakh – 0 Mark

CAYm1(2022-23)

Project Title	Duration	Funding Agency	Amount
Fake Review Detection by using Machine Learning	30 days	Sri Vensy Technologies	15000/-
Total amount (X)			=15000/-

CAYm2 (2021-22)

Project Title	Duration	Funding Agency	Amount
Voice Assistance for Smart Devices	50 days	Sri Vensy Technologies	16500/-
Total amount (Y)			= 16500/-

CAYm3 (2020-21)

Project Title	Duration	Funding Agency	Amount
House Holding Services for Migrating People	90 days	Sri Balaji Industries	20000/-
Total amount			=20000/-

Table 5.7.4: Consultancy Projects**Cumulative Amount (X + Y + Z) = 51,500/-**

5.8. Faculty Performance Appraisal and Development System (FPADS) (30/30)

Each faculty member is required to submit a Faculty Performance Appraisal letter demonstrating their innovative and research-based efforts to adapt to technological advances and gain expertise for curriculum implementation.

To ensure successful faculty appraisal,

- it's important to cover the syllabus on time according to the academic calendar.
- Outside of the usual curriculum, additional content is covered.
- Improvements to the teaching and learning process, as well as informative innovations.
- Results in the relevant subjects from the end-of-semester exams.
- Setting question papers for other universities as well as preparing question banks.
- Research papers might be published in journals, conferences, books, or book chapters.
- Research grants were acquired, and consulting work was completed.
- Additional responsibilities at the department or college level, including industry interactions and visits.
- Actively organize events such as seminars, workshops, FDPs, SDPs, and conferences.
- Professional networking.

Faculty members in higher education institutions are responsible for various roles and tasks. Faculty members must innovate, conduct research,

stay up-to-date with technology, and gain skills to effectively administer courses. Additionally, they are responsible for assisting the industry and community in identifying and addressing real-world issues. The post also includes administrative responsibilities and collaboration with other faculty, department heads, and the Institute's Head. Having an effective performance appraisal system for faculty is crucial for maximizing individual contributions to institutional performance.

The assessment is based on:

Academic Performance Indicators

- Teaching, learning, and evaluation-related responsibilities like Lectures, seminars, tutorials, and practical's.
- Reading/Instructional material consulted, and supplementary knowledge resources supplied to students.
- Implemented participatory and innovative teaching methods, updated subject content, and improved courses.
- Examination assignments were assigned and completed.
- Training courses, teaching-learning evaluation technology programmes, and FDPs.

Co-Curricular, Extension, Professional Development related activities.

- Extension, co-curricular and field based activities.
- Contribution to corporate life and management of the institution.
- Professional Development activities.
- Invited lectures and chairmanships at national or international conferences / seminars.
- Published papers in journals and conferences.

-
- Book-published articles and chapters.
 - Books/Chapters published as a single author or editor.
 - Research grants and consulting work
 - Research advice.

Other Relevant Information.

- Significant Contribution in any manner.
- Award Received for good results produced

Sample Faculty Appraisal Form



VISWAM ENGINEERING COLLEGE

(Formerly Sir Vishveshwaraiah Institute of Science & Technology)

Madanapalle – 517 325

FACULTY SELF ASSESSMENT

Self-Assessment Form for the Academic Year			
Name	:	DOB	:
Dept.	:	Designation	:

1.1 Academic Profile:

Course	Qualification	Study Duration		College / University	Specialization
		from	to		
UG					
PG					
M.Phil					
Ph.D					

1.2 Work Experience:

Post Held	Organization	Work Duration		Years of Experience
		from	to	

1.3 Details of Theory Subjects taught during the two previous academic years

AY	Se m	Subjects Handled	Yr-Br-Sec	Pass %	Feed Back Score	Softcop y of Lecture Notes Uploade d YES / No

1.4 Details of Projects Supervised (Add rows if required)

AY	UG / PG	Project Title	Roll no. of the Student(s)

1.5 Additional Responsibilities carried out

S. No.	Responsibility	Nature of work	Period
1.			
2.			
3.			
4.			
5.			

1.6 Details of events organized (Add rows if required)

S.No.	Name of Event	Role	Dates

2.1 Membership of Professional bodies (Enclose relevant certificates)

Name of the professional body	Membership number	w.e.f.	Permanent / yearly
-	-	-	-
-	-	-	-

2.2 Details of Workshops/Conferences/Seminars attended**(Enclose relevant certificates)**

S.N o.	Name	Dates	Conducting Organization

3.1 Details of Journal publications(Enclose the copies)

S.No.	Title of the paper	Volume, Number, year	Publisher with ISSN Number	National/ International

3.3 Details of Research Guidance

S.No.	Name of Research Scholar	Title of thesis	Year of Registration	Name of University	Name of Supervisor/Co-Supervisor	Present Status

4.0 Any other information: (Guest Lectures, Research Evaluations, Memberships in Academic Boards etc...) Enclose supporting documents.

--

I hereby declare that the above information and particulars are true and correct.

Date:

Signature of the Faculty

Overall Remarks by Reporting Officer:

Recommendations of Principal:

Approval Remarks of Secretary

Implementation & Effectiveness:

Performance appraisals identify faculty members who require additional training to improve their teaching skills.

Faculty Members produced 90% & above result in semester examinations

Faculty members who achieved 90% & above results in theory topics will be recognized at the Annual Day Function. Table 5.8a shows a list of faculty members with 90% & above results in their subjects.

Table 5.8a List of who have secured 90% & above results in the theory subjects handled

S.No	Academic Year	Year/Sem/Section	Subject Code//Name	Name of the Faculty
1.	2022-23	IV-II	Global Warming and Climate Changes	K.Haritha
2.	2022-23	II-II	Software Engineering	Mr.A Srinivasan
3.	2022-23	II-II	Software Engineering	Mrs.B Jyothsna
4.	2022-23	II-II	Database Management Systems	Mrs.V Hemasree
5.	2022-23	III-I	Artificial Intelligence	Mrs.G S Gowthami Kumari
6.	2022-23	II-I	Universal Humar	V Vijaya

			Values	Lakshmi
7.	2022-23	IV-II	DevOps	P Viswanatha Reddy
8.	2021-22	IV-II	Internet of Things	S Nagarajan
9.	2021-22	IV-I	Software Project Management	Y Basanthi
10.	2021-22	IV-I	Grid and Cloud Computing	T Nagaraju Yadav
11.	2021-22	III-II	Industrial Waste & Waste Water Management	K.Haritha
12.	2021-22	IV-II	Innovations & IT Management	G S Gowthami Kumari
13.	2021-22	IV-I	Cloud Computing	P Viswanatha Reddy
14.	2021-22	III-I	Computer Networks	T Nagaraju Yadav
15.	2021-22	III-I	Object Oriented Analysis and Design	K Lakshmaiah
16.	2021-22	III-II	Design Patterns	D Ramakanth
17.	2021-22	III-II	Design & Analysis of Algorithms	G Madhavi
18.	2021-22	II-II	Big Data	A Srinivasan
19.	2020-21	III-I	Principals	B Jyothsna

			Programming Language	
20.	2020-21	II-I	Design Thinking	V Hemasree
21.	2020-21	II-I	Universal Human Values	T Nagaraju Yadav
22.	2020-21	IV-I	Software Architecture	K Lakshmaiah
23.	2020-21	II-II	Computer Organization	S Nagarajan

Awards & Incentives:

The list of faculties received awards and incentives are given in table 5.8b.

Table 5.8b: list of faculty received awards and incentives

S.No	Academic Year	Faculty Name	Award Name	Incentives
1.	2022-23	Dr. R VASANTH SELVA KUMAR	Incentive	10000
2.		Dr.B LAXMIKANTHA	Cash Award	3000
3.		DR J VANITHA VANI	Cash Award	3000
4.		DR G SANKAR	Cash Award	3000
5.		Dr. G KISHORE KUMAR	Promotion	Assistant to Associate Prof

6.		Dr. V HEMASREE	Incentive	8000
7.		Mrs. B JYOTHSNA	Incentive	8000
8.		Mr. P VISWANATHA REDDY	Incentive	8000
9.		Mr. A SRINIVASAN	Incentive	5000
10.		Mr. D SANJEEVA REDDY	Incentive	10000
11.		Mrs. T SARADA	Incentive	4000
12.		Mrs. I DEEPIKA	Cash Award	3000
13.		Mrs. Y BASANTHI	Incentive	10000
14.		Mr.K RAMANJULU	Cash Award	2000
15.		Mr. K ANJINEYULU	Cash Award	2000
16.		Mrs. K VIJAYA LAKSHMI	Cash Award	2000
17.		Mrs. N ARUNA SANDHYA	Incentive	2000
18.		Dr. R VASANTH SELVA KUMAR	Incentive	20000
19.		Mrs. B JYOTHSNA	Incentive & Promotion	4000& Assistant to Associate Prof
20.	2021-22	Mrs. V HEMASREE	Incentive & Promotion	4000 & Assistant to Associate Prof
21.		Mr. P VISWANATHA	Incentive &	3000 Assistant to

		REDDY	Promotion	Associate Prof
22.		Mr. A SRINIVASAN	Incentive	2000
23.		Mr. D SANJEEVA REDDY	Incentive	3000
24.		Mrs. B SASIKALA	Incentive	7000
25.		Mrs. T SARADA	Incentive	3000
26.		Mr. D RAMAKANTH	Cash Award	1000
27.		Mrs. I DEEPIKA	Incentive	3000
28.		Mr.M VEERESH BABU	Incentive & Promotion	3000 Assistant to Associate Prof
29.		Mr. K RAMANJULU	Incentive	1000
30.		Mr. K ANJINEYULU	Cash Award	1000
31.		Mrs.N ARUNA SANDHYA	Incentive	2000
32.	2020-21	Dr. V SENTHIL MURUGAN	Incentive	20000
33.		Mrs. B JYOTHSNA	Incentive	5000
34.		Mrs. V HEMASREE	Incentive	4000
35.		Mr. P VISWANATHA REDDY	Incentive	3000
36.		Mr. A SRINIVASAN	Incentive	3000
37.		Mrs. B SASIKALA	Cash	2000

38.		Mrs. T SARADA	Incentive	2500
39.		Mrs. I DEEPIKA	Incentive	2000
40.		Mr.M VEERESH BABU	Incentive	2000
41.		Mr. K LAKSHMAIAH	Increment & Promotion	3000& Assistant to Associate Prof
42.		Mr.S NAGARAJAN	Incentive	3000
43.		Mr.T NAGARAJU YADAV	Incentive	2000
44.		Mr. K RAMANJULU	Cash	1000
45.		Mr.K ANJINEYULU	Cash	1000

Faculty members attended Basic Training / Refresher courses:

The list of faculty who have undergone basic training/ refresher courses on engineering subjects is given in table 5.8c.

S.No	Academic Year	Faculty Name	Title of the Program	Duration	Organized by
1.	2022-23	Mr.A Srinivasan	Recent Trends in Data Analytics	11-12-2023 to 15-12-2023	RGMCET, Nandyal
2.	2022-	Mrs.G S Gowthami	Artificial	16/10/2023 to	RGMCET Nandyal

	23	Kumari	Intelligence	21/10/2023	
3.	2022-23	Dr.G Sankar	IoT & IT'S APPLICATIONS	28th August to 1st September, 2023	SVCET(A), Chittoor
4.	2022-23	Dr.G Kishore Kumar	Design Thinking and 3D Printing.	6th October, 2023 online	Cambridge Institute of Technology, Bangalore.
5.	2021-22	Mrs.B Sasikala	Intelligence Automation through AI	21-09-2021-25-09-2021	VEC, Madanapalle
6.	2021-22	Mrs.P Muna Vijayalakhmi	Artificial Intelligence & Machine Learning with a hands-on session using MATLAB	3 rd to 7 th November 2021	MITs, Madanapalle
7.	2021-22	Mr.M Veeresh Babu	Artificial Intelligence	Online 24 th May 2021-28 th May 2021	Sanskriti School of Engineering, Puttaparthi
8.	2021-22	Mr.K Anjineyulu	Managing Cyber Security in	22 nd to 24 th October 2021	Rabindranath Tagore University

			the New Normal		
9	2020-21	Mr.D Ramakant h	Machine Learning in Image Processing Applications	15 th to 27 th March 2021	PSCMRECT,Vijaya wada
10	2020-21	Mr.P Viswanatha Reddy	Php	17/06/2020-19/06/2020	BMS College for Women
11	2020-21	Mr.K Ramanjulu	Deep Learning & Cyber Security	22 nd to 27 th Feb 2021	MITs, Madanapalle
12	2020-21	Mr.K Anjineyulu	Hybrid Cloud Development	06/07/2020-11/07/2020	VEC, Madanapalle
13	2020-21	Mrs.B Madhavi	Hybrid Cloud Development	06/07/2020-11/07/2020	VEC, Madanapalle

Summary of Faculty Awards, Incentives & Training courses:

The consolidated list of faculty who have received awards/incentives and undergone basic training/ refresher courses on engineering subjects is given in table 5.8d.

Table 5.8d: Consolidated list of faculty received awards, Incentives and undergone basic training/ refresher courses.

S. No	Annual Year	No of Faculties Received Award	No of Faculties Received Incentives	No of Faculties improved through Training
1	2022-23	7	9	4
2	2021-22	3	12	5
3	2020-21	3	11	4

5.9. Visiting/Adjunct/Emeritus Faculty etc. (10/10)

One of the primary goals is to foster strong and robust partnership between educational institutions and the industry. The mechanical engineering department aims to regularly engage industry professionals, academics, scholars, practitioners, and policymakers in teaching, research, and associated activities. This involvement adds a fresh viewpoint to normal teaching, making it more engaging and enriching for faculty members.

CAYm1(2022-23)

S.No.	Name of the Visiting/Adjunct/Emeritus Faculty	Organization & Designation	Name of the Course	Class	No of Sessions in Hours
1	L Althaf	Persistence & Software Engineer	Machine Learning	III-II	21
2	L Harikrishna	Fidelity & Software Engineer	DBMS	II-II	21

CAYm1(2021-22)

S.No.	Name of the Visiting/Adjunct/Emeritus Faculty	Organization & Designation	Name of the Course	Class	No of Sessions in Hours
1	Mr. Venkata Sumanth	Capgemini	JAVA	II-I	21
2	Mr. Bhanu Prakash Reddy	ITC	Phython	II-II	23

CAYm1(2020-21)

S.N o.	Name of the Visiting/Adjunct/Emeritus Faculty	Organization & Designation	Name of the Course	Classes	No of Sessions in Hours
1	B Bhavana	Trade Lab Software Engineer	Java Script	II-I	21
2	Sai Kiran	Redmi Software Engineer	MAD	IV-I	21

Criterion 6	Facilities and Technical Support	80/80
--------------------	---	--------------

6. Facilities and Technical Support

6.1 Adequate and well-equipped laboratories and technical manpower (30/30)

Sl. No	Lab No	Name of the Laboratory	Number of students per setup (batch size)	Name of the important equipment	Weekly utilization status (All the courses for which the lab is utilized)	Technical manpower support		
						Name of the technical staff	Designation	Qualification
1	Lab1	PPDS Lab	60	Computer Systems with required Software's, Python 3.11.2 & PyCharm Community Edition2 021.2.3	6 hours per week	Mrs.R.Haritha	Programmer	M.Sc
		OS Lab		Turbo C7by Akki Version 2.1				

2	Lab2	EDA with R Lab	60	Computer Systems with required Software's, R Studio	3 hours per week	Mrs.R.Haritha	Programmer	M.Sc
		CN Lab		Turbo C7by Akki Version 2.1				
3	Lab3	ST	60	Computer Systems with required Software's. Argo UML 0.35.1	30 hours per week	Mr. V.Pradeep Kumar	Programmer	MCA
		IT Lab		M.S Office				

4	Lab4	WAD Lab	60	Computer Systems with required Software's HTML	9hours	Mrs.R.Haritha	Programmer	M.Sc
		ADP Lab		Python 3.11.2				
5	Lab5	JAVA Lab	60	Computer Systems with required Software's JDK 1.8.0	30hours	Mr. V.Pradeep Kumar	Programmer	MCA
		ML Lab		Pycharm Community Edition2021.2.3				
6	Lab6	SE Lab	60	Computer Systems with required Software's ArgoUML	6 hours	Mrs.R.Haritha	Programmer	M.Sc

				0.35.1				
7	Lab7	IOT Lab	60	Arduino 1.8.19	9 hours	Mr. V.Pradeep Kumar	Programmer	MCA
8	Lab8	Language Lab	60	Computer Systems with required Software's	9 hours	Mr. V.Pradeep Kumar	Programmer	MCA
9	Lab9	DBMS Lab	60	Oracle Database 11g Express Edition	9 hours	Mrs.R.Haritha	Programmer	M.Sc
10	Lab10	AWAD Lab	30	Xampp	9 hours	Mrs.R.Haritha	Programmer	M.Sc
11	Lab11	SOFT SKILLS Lab	60	WELTEC H	9 hours	Mr. V.Pradeep Kumar	Programmer	MCA

6.2 Additional facilities created for improving the quality of learning experience in laboratories (25/25)

Sl. no	Facility Name	Details	Reasons for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to Pos/PSOs
1	Computer Peripheral Assembly Lab	Using Scrap /Unused computers	To provide complete picture of hardware devices for better understanding of the subjects	5 hours per week	Real time experience of disassembling, locating the devices, assembling the system	PO1, PO4, PO7,
2	Smart class facility	Fully equipped shared Smart Class room with LCD projector and software's with the seating capacity of 80. Comfortable desks, chairs and teaching aids. Glass board, Fan, Tube light, chalk board	To enhancing Teaching Learning	Per Semester 15 hours	Better understanding	PO5, PO10, P12

3	E-journal Facility	IEEE, I Gate, Springer,	For research and project activities. To know about recent trends in Science and technology	Complete semester is opened to utilize	Research activity, Recent trends in engineering, Project activity	PO1, PO2, PO3, PO5, P12
4	Common Internet Facility	Ethernet/ Wi Fi	Facility to staff and students for enhancing Teaching Learning,	Complete semester is opened to utilize	More knowledge apart from curriculum, 24×7 access to learning resources	PO1, PO3, PO4, PO5, P12
5	MAT Lab Facility	Control system, Simu link	In addition to the VTU curriculum, students can verify theoretical concepts in a practical environment It is helpful for the analysis of problems	Complete semester is opened to utilize	Modeling the equation for the Design engineering problems	PO2, PO3, PO4,
6	Dept. Library	Having collection of Text Books, Reference Books, Journals, Project / seminar report.	To meet the needs of the students, To provide reference facilities, to refer advanced	Complete semester is opened to utilize	Students and staff can refer text book and have a better understanding, preparing notes,	PO1, PO2, PO1 2

			Information for seminar, laboratory, projects, To know about the past research activities undertaken by the students			
7	ICT (Integrated Co-Teaching)	Smart Board	Increased engagement Enhanced creativity Greater understanding	Complete semester is opened to utilize	Students with special needs and low performers exhibit improved writing when utilizing technology	PO5
8	Center of Excellence, AI ML lab and Embedded lab	AURDINO Raspberry Pi	Teaching students, developers, data scientists, and researchers how to integrate and reason with disparate data sources.	Complete semester is opened to utilize	Research activity, Recent trends in engineering, Project activity	PO5, PO10, PO11, PO12

6.3 Laboratories: Maintenance and overall ambience (10/10)

The department of Computer Science and Engineering has well equipped and well-maintained laboratories to conduct the experimental work in a healthy and safe environment.

Maintenance

Lab Maintenance Committee takes the responsibility of lab maintenance and ambience through certain number of reviews taken periodically. This committee comprises of Program Coordinator, senior faculty, lab in charge and senior technical staff. In order to maintain the laboratories efficiently, department of Computer Science and Engineering follows a systematic procedure:

1. The committee identifies faulty devices, requirement of new software's and devices.
2. The committee ensures the computers is ready for conducting experiments without any hassles.

Weekly inspection: In this, the technical staff inspects all systems and software prepares a report accordingly for their respective labs.

Monthly inspection: In this, the lab in charge along with technical staff reviews the weekly reports and sorts out if any requirements. By the end of semester, the lab in charge prepares a report on the overall maintenance and requirement of the respective lab.

Semester inspection: Form the report of lab in charge; lab maintenance committee will decide the overall requirements and maintenance of all laboratories.

3. The following registers are maintained to trace the progress of laboratory maintenance:

Consumable Register: A register is maintained for newly purchased

consumables along with old stock and checks the data weekly. The technical staff maintains indents and purchases of the laboratory.

Stock Register: Newly purchased equipment with all the details like quantity, cost and other information is posted in to the stock register.

- Internal technical staff will conduct minor services and major service will be handled by out sourced staff.

LAB OCCUPANCY SHOWING MAINTENANCE SLOT


VISWAM ENGINEERING COLLEGE
(Formerly Sir Vishveshwaraiah Institute of Science & Technology)
Madanapalle - 517 325

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
B.Tech
COMPUTER LAB-1 2023-2024 TIMETABLE

Day/Time	09:20 -10:10	10:10-11:00	11:10 -12:00	12:00-12:50	L U N C H	1:40 -2:35	2:35 -3:30	3:30-4:25
Mon	← II-I CSE A&B Section ADS&A LAB →					← I-I ITW →		
Tue	← III-I CSE A&B Section CN LAB →					← II-I AI&DS ADS&A LAB →		
Wed	← II-I CSE A&B Section JAVA LAB →					← III-I CSE A&B Section AWAD LAB →		
Thu	← I-I ITW →					← II-I AI&DS JAVA LAB →		
Fri	← II-I CSE A&B Section WAD LAB →					← I-I ITW →		
Sat	← I-I ITW →					← II-I AI&DS WAD LAB →		

STAFF-INCHARGE
Mrs. Y. Hemasree

HOD



VISWAM ENGINEERING COLLEGE
(Formerly Sir Vishveshwaraiah Institute of Science & Technology)
Madanapalle - 517 325

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
B.Tech COMPUTER LAB-2 2023-2024 TIME TABLE

Day/Time	09:20 -10:10	10:10-11:00	11:10 -12:00	12:00-12:50		1:40 -2:35	2:35 -3:30	3:30-4:25
Mon					L U N C H B R E A K	←----- IV-I CSE A&B-Section MAD LAB -----→		
Tue						←----- II-I MBA BS LAB -----→		
Wed						←----- MBA LAB -----→		
Thu		←----- II-I ECE, EEE, MECH, CIVIL ADP LAB -----→				←----- III-I ECE A& B-Section PCB LAB -----→		
Fri						←----- III-I CSE A&B -Sections AI LAB -----→		
Sat						←----- I-I MBA IT LAB -----→		
Sun								

STAFF-INCHARGE
Mrs. V. Hemasree

R. Venkatesh
HOD

LAB Details:

S.NO	Name of the laboratory	Area of the laboratory (sq. m.)	Maintenance and Ambience
1	PPDS & OS LAB	153.727	<p>Maintenance- Breakdown register is maintained in the laboratories.</p> <p>As per the requirement minor repairs are carried out by the lab technical staff</p> <p>Major repairs are out sourced by following the procedure of the institute</p> <p>Ambience-Adequate ventilation and lighting is provided.</p> <p>Display boards of tools and work instructions are provided.</p>

2	<p align="center">EDA WITH R LAB</p> <p align="center">CN LABs</p>	153.727	<p>Maintenance- Breakdown register is maintained in the laboratories.</p> <p>As per the requirement minor repairs are carried out by the lab technical staff</p> <p>Major repairs are out sourced by following the procedure of the institute</p> <p>Ambience-Adequate ventilation and lighting is provided.</p> <p>Display boards of tools and work instructions are provided.</p>
3	<p align="center">IT & ST LAB</p>	204.045	<p>Maintenance- Breakdown register is maintained in the laboratories.</p> <p>As per the requirement minor repairs are carried out by the lab technical staff</p> <p>Major repairs are out sourced by following the procedure of the institute</p> <p>Ambience-Adequate ventilation and lighting is provided.</p> <p>Display boards of tools and work instructions are provided.</p>

4	WAD LAB & ADP LAB	84.63	<p>Maintenance- Breakdown register is maintained in the laboratories.</p> <p>As per the requirement minor repairs are carried out by the lab technical staff</p> <p>Major repairs are out sourced by following the procedure of the institute</p> <p>Ambience-Adequate ventilation and lighting is provided.</p> <p>Display boards of tools and work instructions are provided</p>
5	JAVA LAB & ML LAB	84.63	<p>Maintenance- Breakdown register is maintained in the laboratories.</p> <p>As per the requirement minor repairs are carried out by the lab technical staff</p> <p>Major repairs are out sourced by following the procedure of the institute</p> <p>Ambience-Adequate ventilation and lighting is provided.</p> <p>Display boards of tools and work instructions are provided</p>

6	SE & OT LAB	153.72	<p>Maintenance- Breakdown register is maintained in the laboratories.</p> <p>As per the requirement minor repairs are carried out by the lab technical staff</p> <p>Major repairs are out sourced by following the procedure of the institute</p> <p>Ambience-Adequate ventilation and lighting is provided.</p> <p>Display boards of tools and work instructions are provided</p>
7	Language lab	83.65	<p>Maintenance- Breakdown register is maintained in the laboratories.</p> <p>As per the requirement minor repairs are carried out by the lab technical staff</p> <p>Major repairs are out sourced by following the procedure of the institute</p> <p>Ambience-Adequate ventilation and lighting is provided.</p> <p>Display boards of tools and work instructions are provided</p>

8	DBMS & AWAD LAB	204.045	<p>Maintenance- Breakdown register is maintained in the laboratories.</p> <p>As per the requirement minor repairs are carried out by the lab technical staff</p> <p>Major repairs are out sourced by following the procedure of the institute</p> <p>Ambience-Adequate ventilation and lighting is provided.</p> <p>Display boards of tools and work instructions are provided</p>
9	SOFT Skill lab	83.265	<p>Maintenance- Breakdown register is maintained in the laboratories.</p> <p>As per the requirement minor repairs are carried out by the lab technical staff</p> <p>Major repairs are out sourced by following the procedure of the institute</p> <p>Ambience-Adequate ventilation and lighting is provided.</p> <p>Display boards of tools and work instructions are provided</p>

Labs Photographs



LAB-1



LAB-2



lab 3

6.4 Project Laboratory (5/5)

S.NO.	NAME OF THE FACILITIES	UTILIZATION
1.	Turbo C 3.0,	6 th semester students Computer. Graphics Lab, PG students, Research
2.	Fedora,	7 th ,8 th semester students, PG students, Research scholars and Faculty
3.	Java SE Development Kit Microsoft Visual Studio,	7 th ,8 th semester students, PG studentsand Faculty members.
4.	My Eclipse, Net beans IDE	7 th ,8 th semester students, PG students, and Faculty
5.	Python pychorm	7 th ,8 th semester students, PG students and Faculty
6.	Microsoft Office professional, Adobe Reader	6 th ,7 th ,8 th semester students, PG studentsand Faculty
7	My Sql,	6 th ,7 th ,8 th semester students, PG students

PROJECTS DONE IN PROJECT LAB-FOR A.Y- 2022-23.

S.NO	NAME OF THE PROJECT	SOFTWARES USED
1.	Stock administration frame work by using Django	Django
2.	A robust reputation management mechanism in the federated cloud	java
3.	Criminal face identification system	Python PyCharm
4.	Indoor object recognition by using deep learning	Python Jupiter
5.	Fake review deduction by using machine learning	Python, Jupiter
6.	IOT based low-cost fire detection alarm system for safety of building	python
7.	Rapid explosion of cipher text in cloud storage	JSP, HTML
8.	Traffic sign recognition by using deep learning	Python, HTML, CSS, JS

PROJECTS DONE IN PROJECT LAB-FOR A.Y-2021-22.

S.N O	NAME OF THE PROJECT	SOFTWARES USED
1.	Face mask detection using deep learning	Python
2.	Smart detection of take account on social media	python
3.	Student project tracking system	PHP,my SQL
4.	Financial fraud detecting by analyzing human behavior	PythonPyCharm
5.	Online pharmacy management system	java
6.	AI enabled application towards intelligent transportation	python
7.	Android based application for training and placement	Android studio
8.	Live online class attendance using face recognition	python

PROJECTS DONE IN PROJECT LAB-FOR A.Y-2020-21

S.NO	NAME OF THE PROJECT	SOFTWARES USED
1.	Smart irrigation system using IOT	python
2.	Big data gathering and mining pipelines for CRM using open sources	python
3.	Wi-fi based secure wireless communication using RSA	Arduino complier MC programming language C
4.	Image respiration using various filters	python
5.	Mobile banking information system	java
6.	Encoded polymeric aspects of clustering	Java, ASP.NET
7.	Biometric voting machine based on finger pattern using IOT	Arduino IDE Thing speak
8.	Voice based e-mail system for visually challenged	java

6.5 Safety measures in laboratories (10/10)

S .No	Name of the Laboratory	Safety Measures
1	Lab1 PPDS Lab / OS Lab	<ul style="list-style-type: none"> • General Rules of Conduct in Laboratories are displayed. • Specific Safety Rules for students displayed. • First aid box, Fire extinguishers are kept in the laboratory. • Well trained technical supporting staff. • Avoiding the use of damaged equipment's and provides needful equipment's and components. • Periodical servicing of the lab equipment's. • Maintain a clean and organized laboratory, • Avoiding the use of cell phones. • Appropriate storage areas.
2	Lab 2 EDA with R Lab and CN LAB	<ul style="list-style-type: none"> • General Rules of Conduct in Laboratories are displayed. • Specific Safety Rules for students displayed. • First aid box, Fire extinguishers are kept in the laboratory. • Well trained technical supporting staff. • Avoiding the use of damaged equipment's and provides needful equipment's and components.

		<ul style="list-style-type: none"> • Periodical servicing of the lab equipment's. • Maintain a clean and organized laboratory, • Avoiding the use of cell phones. • Appropriate storage areas
3	LAB 3 ST & IT LAB	<ul style="list-style-type: none"> • General Rules of Conduct in Laboratories are displayed. • Specific Safety Rules for students displayed. • First aid box, Fire extinguishers are kept in the laboratory. • Well trained technical supporting staff. • Avoiding the use of damaged equipment's and provides needful equipment's and components. • Periodical servicing of the lab equipment's. • Maintain a clean and organized laboratory, • Avoiding the use of cell phones. • Appropriate storage areas
4	LAB 4 WAD & ADP LAB	<ul style="list-style-type: none"> • General Rules of Conduct in Laboratories are displayed. • Specific Safety Rules for students displayed. • First aid box, Fire extinguishers are kept in the laboratory. • Well trained technical supporting staff. • Avoiding the use of damaged equipment's and provides needful equipment's and components. • Periodical servicing of the lab equipment's.

		<ul style="list-style-type: none"> • Maintain a clean and organized laboratory, • Avoiding the use of cell phones. • Appropriate storage areas
5	LAB 5 JAVA & ML LAB	<ul style="list-style-type: none"> • General Rules of Conduct in Laboratories are displayed. • Specific Safety Rules for students displayed. • First aid box, Fire extinguishers are kept in the laboratory. • Well trained technical supporting staff. • Avoiding the use of damaged equipment's and provides needful equipment's and components. • Periodical servicing of the lab equipment's. • Maintain a clean and organized laboratory, • Avoiding the use of cell phones. • Appropriate storage areas
6	LAB 6 SE LAB	<ul style="list-style-type: none"> • General Rules of Conduct in Laboratories are displayed. • Specific Safety Rules for students displayed. • First aid box, Fire extinguishers are kept in the laboratory. • Well trained technical supporting staff. • Avoiding the use of damaged equipment's and provides needful equipment's and components. • Periodical servicing of the lab equipment's. • Maintain a clean and organized laboratory,

		<ul style="list-style-type: none"> • Avoiding the use of cell phones. • Appropriate storage areas
7	<p style="text-align: center;">LAB 7 IOT LAB</p>	<ul style="list-style-type: none"> • General Rules of Conduct in Laboratories are displayed. • Specific Safety Rules for students displayed. • First aid box, Fire extinguishers are kept in the laboratory. • Well trained technical supporting staff. • Avoiding the use of damaged equipment's and provides needful equipment's and components. • Periodical servicing of the lab equipment's. • Maintain a clean and organized laboratory, • Avoiding the use of cell phones. • Appropriate storage areas
8	<p style="text-align: center;">LAB 8 LANGAUGE LAB</p>	<ul style="list-style-type: none"> • General Rules of Conduct in Laboratories are displayed. • Specific Safety Rules for students displayed. • First aid box, Fire extinguishers are kept in the laboratory. • Well trained technical supporting staff. • Avoiding the use of damaged equipment's and provides needful equipment's and components. • Periodical servicing of the lab equipment's. • Maintain a clean and organized laboratory, • Avoiding the use of cell phones.

		<ul style="list-style-type: none"> • Appropriate storage areas
9	<p style="text-align: center;">LAB 9 DBMS LAB</p>	<ul style="list-style-type: none"> • General Rules of Conduct in Laboratories are displayed. • Specific Safety Rules for students displayed. • First aid box, Fire extinguishers are kept in the laboratory. • Well trained technical supporting staff. • Avoiding the use of damaged equipment's and provides needful equipment's and components. • Periodical servicing of the lab equipment's. • Maintain a clean and organized laboratory, • Avoiding the use of cell phones. • Appropriate storage areas
10	<p style="text-align: center;">Lab 10 AWAD LAB</p>	<ul style="list-style-type: none"> • General Rules of Conduct in Laboratories are displayed. • Specific Safety Rules for students displayed. • First aid box, Fire extinguishers are kept in the laboratory. • Well trained technical supporting staff. • Avoiding the use of damaged equipment's and provides needful equipment's and components. • Periodical servicing of the lab equipment's. • Maintain a clean and organized laboratory, • Avoiding the use of cell phones.

		<ul style="list-style-type: none">• Appropriate storage areas
11	LAB 11 SOFT SKILL LAB	<ul style="list-style-type: none">• General Rules of Conduct in Laboratories are displayed.• Specific Safety Rules for students displayed.• First aid box, Fire extinguishers are kept in the laboratory.• Well trained technical supporting staff.• Avoiding the use of damaged equipment's and provides needful equipment's and components.• Periodical servicing of the lab equipment's.• Maintain a clean and organized laboratory,• Avoiding the use of cell phones.• Appropriate storage areas

Criterion 7	Continuous Improvement	50/50
--------------------	-------------------------------	--------------

7.1. Actions taken based on the results of evaluation of each of the POs & PSOs (20/20)

Identify the areas of weaknesses in the program based on the analysis of evaluation of POs & PSOs attainment levels. Measures have been identified and implemented to improve POs & PSOs attainment levels for the assessment years.

Actions to be written as per table in 3.3.2.

S.No.	NAME	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO9	PO10	PO1 1	PO1 2
CAYm 1 2022- 23	Target	2.04	2.08	2.01	1.67	1.52	1.55	1.58	1.96	1.45	1.37	1.96	1.20
	Attainment	2.24	2.11	2.06	1.94	1.85	1.46	1.65	1.99	1.36	1.51	1.96	1.52
MET-M/ NOT MET-NM		M	M	M	M	M	NM	M	M	NM	M	M	M
	Target	2.01	2.01	1.6	1.6	1.50	1.51	1.58	1.96	1.45	1.3	1.96	1.20

CAYm2				5	3						7		
2021-22	Attainment	2.14	2.02	1.9 2	1.9 4	1.85	1.44	1.65	1.92	1.36	1.5 1	1.96	1.52
MET-M/ NOT MET-NM		M	M	M	M	M	NM	M	NM	NM	M	M	M
	Target	2.00	2.01	1.6 5	1.6 7	1.50	1.55	1.58	1.93	1.45	1.3 7	1.96	1.20
CAYm2020-21	Attainment	2.14	2.02	1.9 2	1.9 4	1.85	1.46	1.65	1.89	1.36	1.5 1	1.96	1.52
MET-M/ NOT MET-NM		M	M	M	M	M	NM	M	NM	NM	M	M	M

Table7.1.1: Target Levels and Attainments of POs for 3 Academic Years

S. No.	NAME	PSO 1	PSO 2	PSO 3
CAYm1 - 2022-23	Target	2.89	1.95	1.97
	Attainment	2.97	2.05	2.15
MET-M/ NOT MET-NM		M	M	M
CAYm2 - 2021-22	Target	1.89	1.95	1.97
	Attainment	2.95	2.00	1.94
MET-M/NOT MET-NM		M	M	NM
CAYm3 - 2020-21	Target	1.89	1.95	1.97
	Attainment	2.5	1.98	1.95
MET-M/NOT MET-NM		M	M	NM

Table7.1.2: Target Levels and Attainments of PSOs for 3
Academic Years

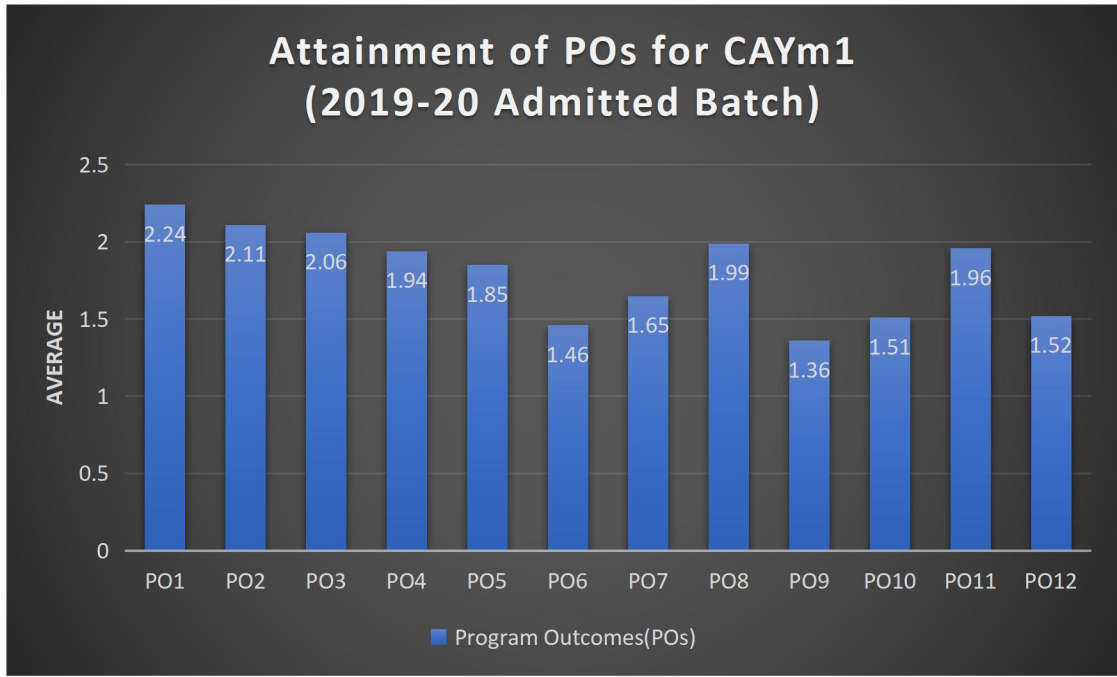


Figure. 7.1.1: Attainment of Program Outcomes (POs)

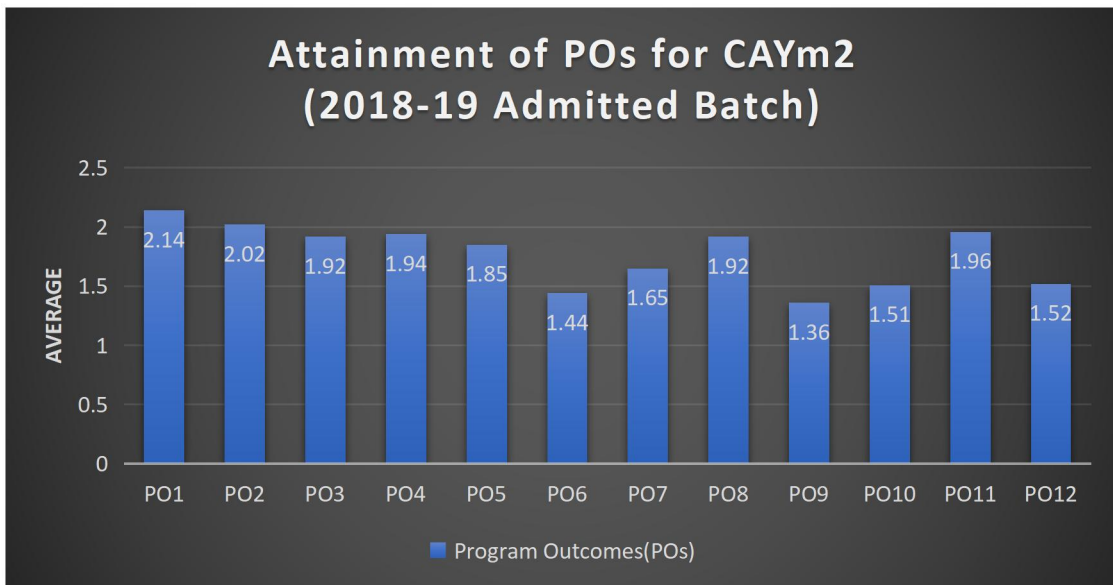


Figure. 7.1.2: Attainment of Program Outcomes (POs)

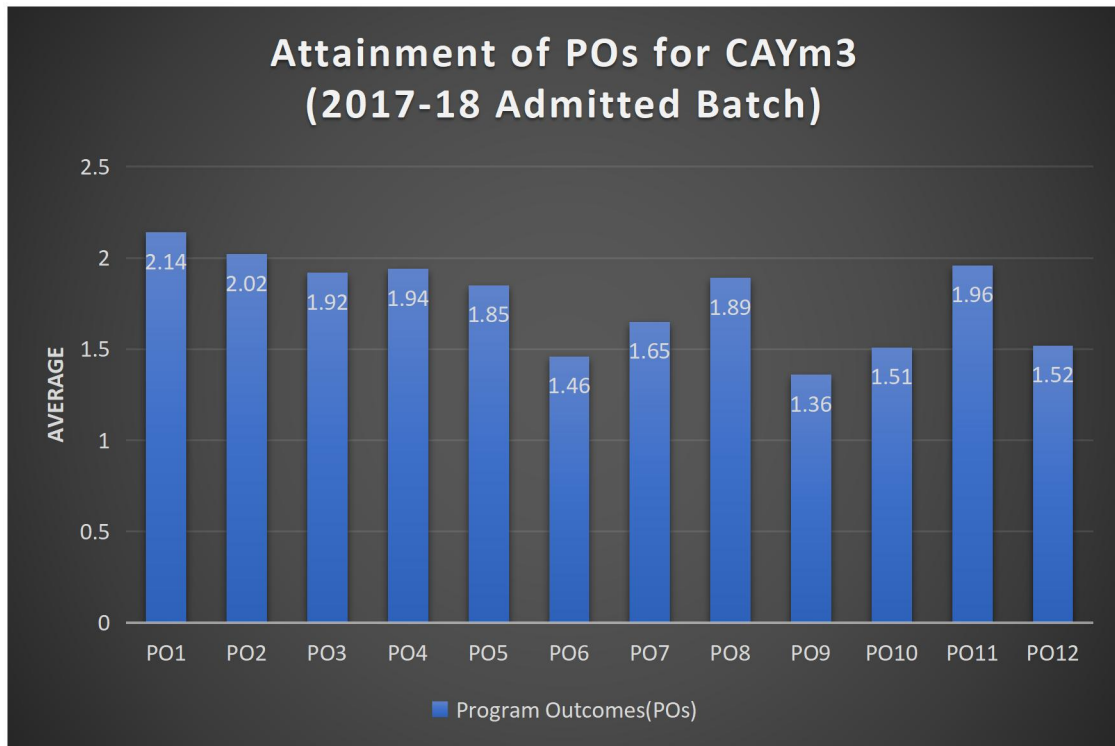


Figure. 7.1.3: Attainment of Program Outcomes (POs)

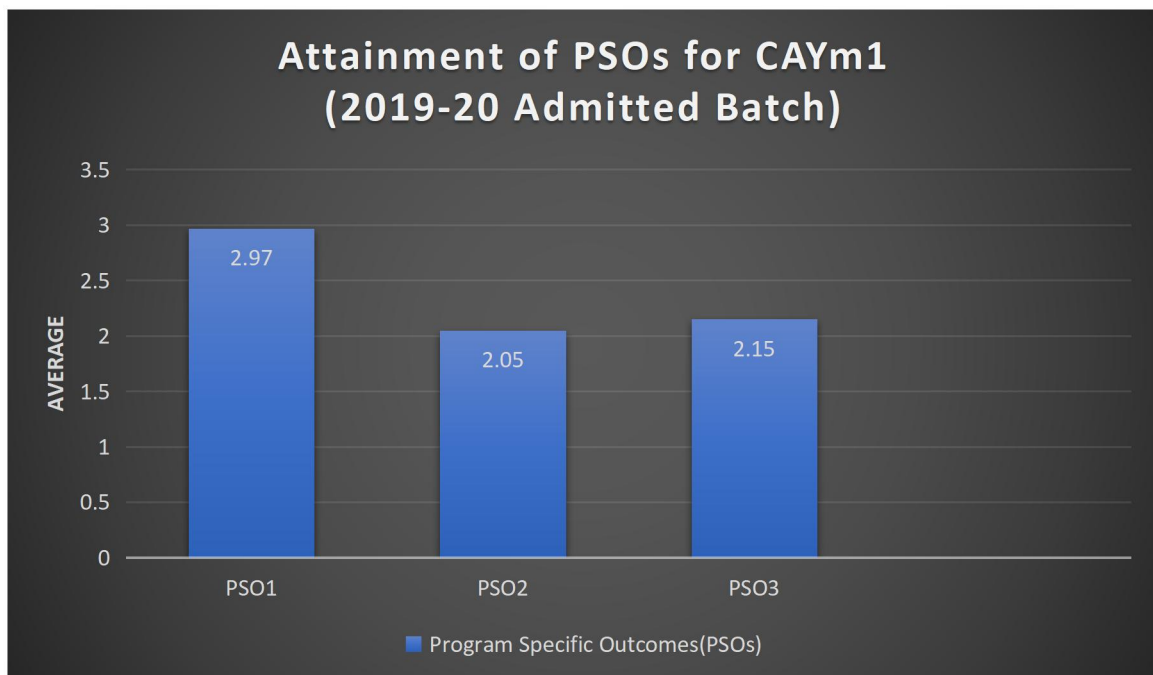


Figure. 7.1.4: Attainment of Program Specific Outcomes (PSOs)

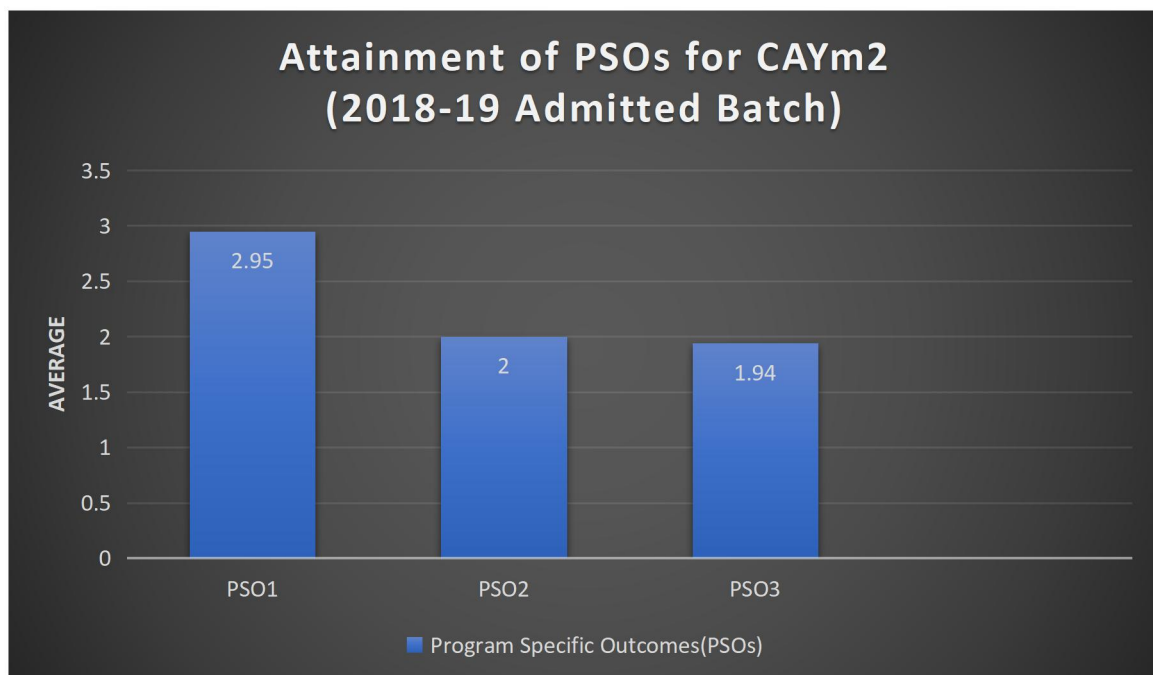


Figure. 7.1.5: Attainment of Program Specific Outcomes (PSOs)

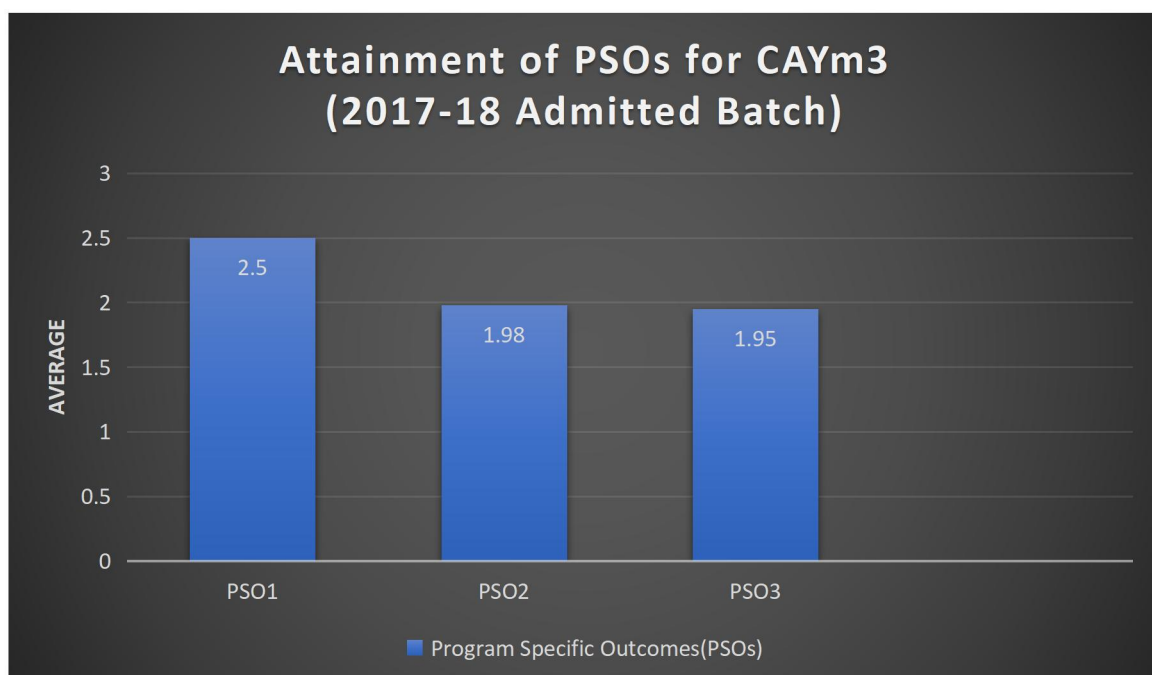


Figure. 7.1.6: Attainment of Program specific outcomes (PSOs)

POs Attainment Levels and Actions for Improvement- CAYm1 (2022-23)

POs	Target Level	Attainment Level	Observations
<p>PO1: Engineering knowledge</p> <p>Apply the knowledge of mathematics, science, engineering Fundamentals and an Engineering specialization to the solution of complex engineering problems.</p>			
PO1	2.04	2.24	<p>Target achieved.</p> <p>Hence the same practice will be continued for the next year.</p> <p>Practical approach of teaching programming was adopted to help students to understand the basics of programming.</p>
<p>Action 1: The target will be retained. Video lectures will be used to explain the concepts for better understanding.</p> <p>Action 2: Students will be asked viva questions relating to the basic concepts to refresh their fundamentals in laboratory sessions.</p> <p>Action 3: Additional classes will be conducted beyond the regular</p>			

<p>classes for the courses which has less attainment.</p> <p>Action 4: Co-curricular activities are scheduled in the area of information security, cyber security, AGILE and AI & ML.</p>			
<p>PO2: Problem analysis</p> <p>Identify, formulate, review research literature, and analyse complex Engineering problems reaching substantiated conclusions using first principles of mathematics, natural Sciences and engineering sciences.</p>			
PO2	2.08	2.11	<p>Target achieved.</p> <p>Target achieved. Hence the same practice will be continued for the next year.</p> <p>Additional classes conducted for numerical courses beyond the regular planned classes has helped the students to perform better.</p>
<p>Action 1: Target will be retained and will be observed for next academic year.</p> <p>Action 2: Additional classes will be conducted beyond the regular classes for the courses which has less attainment.</p> <p>Action 3: Conduct Expert lectures, Seminars and Guest lecture to help</p>			

<p>students in identifying & analysing the real time problems.</p>			
<p>PO3: Design/development of solutions</p> <p>Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the publichealth and safety, and the cultural, societal, and Environmental considerations.</p>			
PO3	2.01	2.06	<p>Target achieved.</p> <p>Hence the same practice will be continued for the next year.</p> <p>Performance of the students in design related subjects, target and activities like guest lectures, hands-on training helped to achieve the target.</p>
<p>Action 1: Target will be retained and will be observed for next academic year.</p> <p>Action 2: To conduct Expert lectures, workshop and hands on training session to understand process of designing and analysing real life software problems.</p> <p>Action 3: Students were encouraged to participate in external inter college technical competitions, coding contests and hackathons.</p>			

PO4: Conduct investigations of complex problems			
Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid Conclusions.			
PO4	1.67	1.94	<p>Target achieved.</p> <p>Hence the same practice will be continued for the next year.</p> <p>Students were informed to refer IEEE journal papers /scopus to enhance their research knowledge, analysis and interpretation of data.</p>
<p>Action 1: Target will be retained and will be observed for next academic year</p> <p>Action 2: National/ international conferences are scheduled to promote research culture among students.</p>			
PO5: Modern tool usage			
Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an Understanding of the limitations.			
PO5	1.52	1.85	<p>Target achieved.</p> <p>Hence the same</p>

			<p>practice will be continued for the next year.</p> <p>Students were exposed to various modern tools like android studio, Jupyter, Eclipse, Netbean, Pycharm, which helped to attain the target</p>
<p>Action 1: Target will be retained and will be observed for next academic year.</p> <p>Action 2: Students are motivated to register for webinars/seminars conducted by third party agencies regarding modern tool usage.</p>			
<p>PO6: The engineer and society</p> <p>Apply reasoning informed by the contextual knowledge to assess Societal, health,safety, legal and cultural issues and the consequent responsibilities relevant to the professional Engineering practice.</p>			
PO6	1.55	1.46	<p>Target not achieved.</p> <ol style="list-style-type: none"> 1. Solving dynamic problem and greedy techniques found to be Difficult. 2. Students find it difficult to solve mathematical derivation concepts &

			<p>Problems.</p> <p>3.Students find it difficult to solve Turing machine concepts & Push Down Automata.</p>
<p>Action 1: Additional classes to be conducted to introduce data structures concepts.</p> <p>Action 2: More assembly level programming to be taught in tutorial classes.</p> <p>Action 3: Practical approach of teaching programming to be adapted.</p> <p>Action 4: More problems will be given for practice.</p>			
<p>PO7: Environment and sustainability</p> <p>Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.</p>			
PO7	1.58	1.65	<p>Target achieved.</p> <p>Hence the same practice will be continued for the next year.</p> <p>Best practices like WhatsApp is used for intra department communication to eliminate the need of papers.</p>
<p>Action 1: Students are encouraged to indulge in mini projects/projects where societal and environmental issues can be addressed.</p> <p>Action 2: Students are strictly instructed to switch off all electrical</p>			

Equipment /Resources when not in use for all the laboratories.			
Action 3: Best Practices like rain water harvesting, solar power source are employed at our college.			
PO8: Ethics			
Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice			
PO8	1.96	1.99	Target achieved. Hence the same practice will be continued for the next year. It is mandatory that students should submit plagiarism certificate for mini projects/project work.
Action 1: Projects/ mini projects will be scrutinized, code reviews will be conducted, plagiarism check will be done to determine the originality of the project to ensure professional ethics.			
PO9: Individual and team work			
Function effectively as an individual, and as a member or leader in diverse teams and in Multidisciplinary settings.			
PO9	1.45	1.36	Target Not achieved. It has been observed that some students did not perform given task individual as required.

<p>Action 1: Motivate students to participate more in National/State/inter and intra college tech fest sports meet, technical and cultural activities to generate the feeling of leadership and working in teams.</p> <p>Action 2: Final year projects give in group so that to enhance team sprit to work in team collaborations.</p>			
<p>PO10: Communication</p> <p>Communicate effectively on complex engineering activities with the engineering community and with society at large. Such as being able to comprehend and write effective reports and design documentation. make effective presentations and give clear instructions</p>			
PO10	1.37	1.51	<p>Target achieved.</p> <p>The speaking and writing skill should be improve</p>
<p>Action 1: . HR activities such as Group discussion, Personal interview, webinar and Technical interview were conducted.</p> <p>Action 2: Alumni talks were conducted.</p> <p>Action 3: Student presentations like seminar, project were organized.</p>			
<p>PO11: Project management and finance</p> <p>Demonstrate knowledge and understanding of the engineering and management principles and apply these to one s own work as a member and leader in a team, tomanage projects and in multidisciplinary</p>			

environments.			
PO11	1.96	1.96	<p>Target achieved.</p> <p>1. More activities should be organized in Project management and finance skill.</p> <p>2. Events should be conducted on Intellectual Property Rights and Patents</p>
<p>Action 1: Target will be retained and will be observed for next academic year. Fundamentals are taught in Managerial Economics and Financial Analysis.</p> <p>Action 2: Students are encouraged to prepare project proposals with the guidance of faculty.</p>			
<p>PO12: Life-long learning</p> <p>Recognize the need and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.</p>			
PO12	1.20	1.52	<p>Target achieved.</p> <p>Mini projects/ projects which is part of the curriculum has helped the students to perform better in placement interviews and higher studies.</p>

Action 1: Target will be retained and will be observed for next academic year.

Action 2: Students will be motivated to register for GRE/TOEFL/GATE and other competitive examinations.

PSOs Attainment Levels and Actions for Improvement

PSOs	Target Level	Attainment Level	Observations
<p>PSO1: Apply standard Software Engineering Practice's and strategies in real-time software project development using open-source programming environment or commercial environment to deliver quality product for the organization success.</p>			
PSO1	2.89	2.97	<p>Target achieved.</p> <p>Require more exposure of industry oriented problems.</p>
<p>Action 1: Students are motivated to take up the real life problems during their project work so that they can design, analyze and find solution which gives exposure to latest technologies.</p> <p>Action 2: Virtual labs were included in labs for understanding design and development solutions.</p> <p>Action 3: Alumni and Expert talks were organized.</p> <p>Action 4: Remedial / Revision classes were conducted.</p>			

PSO2: Design and develop computer programs /computer-based systems in the areas related to algorithms, networking, web design, cloud computing, IoT and data analytics of varying complexity.			
PSO2	1.95	2.05	Target achieved. Improved frequency of organizing training and workshop in the field of Machine Learning Data Analytics.
<p>Action 1: Various Training programs, Workshops and Industrial visits were organized.</p> <p>Action 2: Emphasis on industry oriented problems.</p> <p>Action 3: Practical pedagogy of teaching was adapted for Design and development solutions.</p> <p>Action 4: More problems were given for practice and extra classes had been conducted.</p> <p>Action 5: Organized seminar and guest lecturers in recent technology of computer science</p>			
PSO3: Acquaint with the contemporary trends in industrial/research settings and thereby innovate novel solutions to existing problems.			
PSO3	1.97	2.15	Target achieved. Lacking in adoption of changes in tools and technology in Artificial Intelligence and Machine Learning.
Action 1: Various Training programs, webinar Workshops were organized in			

Artificial Intelligence and Machine Learning.

Action 2: Career awareness programs were in field of computer science and engineering.

Action 3: Integrate technology deployment with change management.

Action 4: Expert lectures were organized.

Action 5: Virtual labs were included in labs for understanding tools and technology.

Table 7.1.3: Observations and Actions Taken

POs Attainment Levels and Actions for Improvement- CAYm2 (2021-22)

POs	Target Level	Attainment Level	Observations
PO1: Engineering knowledge			
Apply the knowledge of mathematics, science, engineering Fundamentals and an Engineering specialization to the solution of complex engineering problems.			
PO1	2.0 1	2.1 4	Target achieved. Hence the same practice will be continued for the next year. Practical approach of teaching

			programming was adopted to help students to understand the basics of programming.
<p>Action 1: The target will be retained. Video lectures will be used to explain the concepts for better understanding.</p> <p>Action 2: Students will be asked viva questions relating to the basic concepts to refresh their fundamentals in laboratory sessions.</p> <p>Action 3: Additional classes will be conducted beyond the regular classes for the courses which has less attainment.</p> <p>Action 4: Co-curricular activities are scheduled in the area of information security, cyber security, AGILE and AI & ML.</p>			
<p>PO2: Problem analysis</p> <p>Identify, formulate, review research literature, and analyse complex Engineering problems reaching substantiated conclusions using first principles of mathematics, natural Sciences and engineering sciences.</p>			
PO2	2.0	2.0	<p>Target achieved.</p> <p>Target achieved. Hence the same practice will be continued for the next year.</p>

	1	2	Additional classes conducted for numerical courses beyond the regular planned classes has helped the students to perform better.
<p>Action 1: Target will be retained and will be observed for next academic year.</p> <p>Action 2: Additional classes will be conducted beyond the regular classes for the courses which has less attainment.</p> <p>Action 3: Conduct Expert lectures, Seminars and Guest lecture to help students in identifying & analysing the real time problems.</p>			
<p>PO3: Design/development of solutions</p> <p>Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the publichealth and safety, and the cultural, societal, and Environmental considerations.</p>			
PO3	1.6 5	1.9 2	<p>Target achieved.</p> <p>Hence the same practice will be continued for the next year.</p> <p>Performance of the students in design related subjects, target and activities</p>

			like guest lectures, hands-on training helped to achieve the target.
<p>Action 1: Target will be retained and will be observed for next academic year.</p> <p>Action 2: To conduct Expert lectures, workshop and hands on training session to understand process of designing and analysing real life software problems.</p> <p>Action 3: Students were encouraged to participate in external inter college technical competitions, coding contests and hackathons.</p>			
<p>PO4: Conduct investigations of complex problems</p> <p>Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid Conclusions.</p>			
PO4	1.63	1.94	<p>Target achieved.</p> <p>Hence the same practice will be continued for the next year.</p> <p>Students were informed to refer IEEE journal papers /scopus to enhance their research knowledge, analysis and interpretation of data.</p>

Action 1: Target will be retained and will be observed for next academic year

Action 2: National/ international conferences are scheduled to promote research culture among students.

PO5: Modern tool usage

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities

with an Understanding of the limitations.

PO5	1.50	1.85	<p>Target achieved.</p> <p>Hence the same practice will be continued for the next year.</p> <p>Students were exposed to various modern tools like android studio, Jupyter, Eclipse, Netbean, Pycharm, which helped to attain the target</p>
------------	-------------	-------------	--

Action 1: Target will be retained and will be observed for next academic year.

Action 2: Students are motivated to register for webinars/seminars conducted by third party agencies regarding modern tool usage.

<p>PO6: The engineer and society</p> <p>Apply reasoning informed by the contextual knowledge to assess Societal, health,safety, legal and cultural issues and the consequent responsibilities relevant to the professional Engineering practice.</p>			
PO6	1.51	1.44	<p>Target not achieved.</p> <ol style="list-style-type: none"> 1. Solving dynamic problem and greedy techniques found to be Difficult. 2. Students find it difficult to solve mathematical derivation concepts & Problems. 3.Students find it difficult to solve Turing machine concepts & Push Down Automata.
<p>Action 1: Additional classes to be conducted to introduce data structures concepts.</p> <p>Action 2: More assembly level programming to be taught in tutorial classes.</p> <p>Action 3: Practical approach of teaching programming to be adapted.</p> <p>Action 4: More problems will be given for practice.</p>			
<p>PO7: Environment and sustainability</p> <p>Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.</p>			

PO7	1.58	1.65	<p>Target achieved.</p> <p>Hence the same practice will be continued for the next year.</p> <p>Best practices like WhatsApp is used for intra department communication to eliminate the need of papers.</p>
<p>Action 1: Students are encouraged to indulge in mini projects/projects where societal and environmental issues can be addressed.</p> <p>Action 2: Students are strictly instructed to switch off all electrical Equipment /Resources when not in use for all the laboratories.</p> <p>Action 3: Best Practices like rain water harvesting,solar power source are employed at our college.</p>			
<p>PO8: Ethics</p> <p>Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice</p>			
PO8	1.96	1.92	<p>Target not achieved.</p> <p>1.Solving dynamic problem and greedy techniques found to be Difficult.</p> <p>2. Students find it difficult to solve mathematical derivation concepts & Problems.</p> <p>3.Students find it difficult to solve</p>

			Turing machine concepts & Push Down Automata.
<p>Action 1: Additional classes to be conducted to introduce data structures concepts.</p> <p>Action 2: More assembly level programming to be taught in tutorial classes.</p> <p>Action 3: Practical approach of teaching programming to be adapted.</p> <p>Action 4: More problems will be given for practice.</p>			
<p>PO9: Individual and team work</p> <p>Function effectively as an individual, and as a member or leader in diverse teams and in Multidisciplinary settings.</p>			
PO9	1.45	1.36	<p>Target not achieved.</p> <p>It has been observed that some students did not perform given task individual as required.</p>
<p>Action 1: Motivate students to participate more in National/State/inter and intra college tech fest sports meet, technical and cultural activities to generate the feeling of leadership and working in teams.</p> <p>Action 2: Final year projects give in group so that to enhance team spirit to work in team collaborations.</p>			
<p>PO10: Communication</p> <p>Communicate effectively on complex engineering activities with the engineering community and with society at large. Such as being able</p>			

to comprehend and write effective reports and design documentation. make effective presentations and give clear instructions			
PO10	1.37	1.51	Target achieved. The speaking and writing skill should be improve
<p>Action 1: . HR activities such as Group discussion, Personal interview, webinar and Technical interview were conducted.</p> <p>Action 2: Alumni talks were conducted.</p> <p>Action 3: Student presentations like seminar, project were organized.</p>			
<p>PO11: Project management and finance</p> <p>Demonstrate knowledge and understanding of the engineering and management principles and apply these to one s own work as a member and leader in a team, tomanage projects and in multidisciplinary environments.</p>			
PO11	1.96	1.96	Target achieved. 1.More activities should be organized in Project management and finance skill. 2. Events should be conducted on Intellectual Property Rights and Patents.
<p>Action 1: Target will be retained and will be observed for next academic year.Fundamentals are taught in Managerial Economics and Financial Analysis.</p>			

Action 2: Students are encouraged to prepare project proposals with the guidance of faculty.			
PO12: Life-long learning Recognize the need and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.			
PO12	1.20	1.52	Target achieved. Mini projects/ projects which is part of the curriculum has helped the students to perform better in placement interviews and higher studies.
Action 1: Target will be retained and will be observed for next academic year.			
Action 2: Students will be motivated to register for GRE/TOEFL/GATE and other competitive examinations.			

PSOs Attainment Levels and Actions for Improvement

PSOs	Target Level	Attainment Level	Observations
PSO1: Apply standard Software Engineering Practice's and strategies in real-time software project development using open-source programming environment or commercial environment to deliver quality product for the organization success.			

PSO1	1.89	2.5	<p>Target achieved.</p> <p>Require more exposure of industry oriented problems.</p>
<p>Action 1: Students are motivated to take up the real life problems during their project work so that they can design, analyze and find solution which gives exposure to latest technologies.</p> <p>Action 2: Virtual labs were included in labs for understanding design and development solutions.</p> <p>Action 3: Alumni and Expert talks were organized.</p> <p>Action 4: Remedial / Revision classes were conducted.</p>			
<p>PSO2: Design and develop computer programs /computer-based systems in the areas related to algorithms, networking, web design, cloud computing, IoT and data analytics of varying complexity.</p>			
PSO2	1.95	2.00	<p>Target achieved.</p> <p>Improved frequency of organizing training workshop in the field of Machine Learning Data Analytics.</p>
<p>Action 1: Various Training programs, Workshops and Industrial visits were organized.</p> <p>Action 2: Emphasis on industry oriented problems.</p> <p>Action 3: Practical pedagogy of teaching was adapted for Design and development solutions.</p> <p>Action 4: More problems were given for practice and extra classes had been conducted.</p> <p>Action 5: Organized seminar and guest lecturers in recent technology of computer science</p>			

PSO3: Acquaint with the contemporary trends in industrial/research settings and there by innovate novel solutions to existing problems.			
PSO3	1.97	1.94	Target not achieved. Lack of adoption to changes in tools and technology in Artificial Intelligence and Machine Learning.
<p>Action 1: Various Training programs, webinar Workshops were organized in Artificial Intelligence and Machine Learning.</p> <p>Action 2: Career awareness programs were in field of computer science and engineering.</p> <p>Action 3: Integrate technology deployment with change management.</p> <p>Action 4: Expert lectures were organized.</p> <p>Action 5: Virtual labs were included in labs for understanding tools and technology.</p>			

Table 7.1.4: Observations and Actions Taken

POs Attainment Levels and Actions for Improvement- CAYm3 (2020-21)

POs	Target Level	Attainment Level	Observations
PO1: Engineering knowledge			
Apply the knowledge of mathematics, science, engineering Fundamentals and an			

Engineering specialization to the solution of complex engineering problems.			
PO1	2.00	2.14	<p>Target achieved.</p> <p>Hence the same practice will be continued for the next year.</p> <p>Practical approach of teaching programming was adopted to help students to understand the basics of programming.</p>
<p>Action 1: The target will be retained. Video lectures will be used to explain the concepts for better understanding.</p> <p>Action 2: Students will be asked viva questions relating to the basic concepts to refresh their fundamentals in laboratory sessions.</p> <p>Action 3: Additional classes will be conducted beyond the regular classes for the courses which has less attainment.</p> <p>Action 4: Co-curricular activities are scheduled in the area of information security, cyber security, AGILE and AI & ML.</p>			
<p>PO2: Problem analysis</p> <p>Identify, formulate, review research literature, and analyse complex Engineering</p>			

problems reaching substantiated conclusions using first principles of mathematics, natural Sciences and engineering sciences.			
PO2	2.01	2.02	<p>Target achieved.</p> <p>Target achieved. Hence the same practice will be continued for the next year.</p> <p>Additional classes conducted for numerical courses beyond the regular planned classes has helped the students to perform better.</p>
<p>Action 1: Target will be retained and will be observed for next academic year.</p> <p>Action 2: Additional classes will be conducted beyond the regular classes for the courses which has less attainment.</p> <p>Action 3: Conduct Expert lectures, Seminars and Guest lecture to help students in identifying & analysing the real time problems.</p>			
<p>PO3: Design/development of solutions</p> <p>Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and Environmental considerations.</p>			

PO3	1.65	1.92	<p>Target achieved.</p> <p>Hence the same practice will be continued for the next year.</p> <p>Performance of the students in design related subjects, target and activities like guest lectures, hands-on training helped to achieve the target.</p>
<p>Action 1: Target will be retained and will be observed for next academic year.</p> <p>Action 2: To conduct Expert lectures, workshop and hands on training session to understand process of designing and analysing real life software problems.</p> <p>Action 3: Students were encouraged to participate in external inter college technical competitions, coding contests and hackathons.</p>			
<p>PO4: Conduct investigations of complex problems</p> <p>Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid Conclusions.</p>			
PO4	1.67	1.94	<p>Target achieved.</p> <p>Hence the same practice will be continued for the next year.</p> <p>Students were informed to refer IEEE journal papers /scopus to enhance</p>

			their research knowledge, analysis and interpretation of data.
<p>Action 1: Target will be retained and will be observed for next academic year</p> <p>Action 2: National/ international conferences are scheduled to promote research culture among students.</p>			
<p>PO5: Modern tool usage</p> <p>Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an Understanding of the limitations.</p>			
PO5	1.50	1.85	<p>Target achieved.</p> <p>Hence the same practice will be continued for the next year.</p> <p>Students were exposed to various modern tools like android studio, Jupyter, Eclipse, Netbean, Pycharm, which helped to attain the target</p>
<p>Action 1: Target will be retained and will be observed for next academic year.</p> <p>Action 2: Students are motivated to register for webinars/seminars</p>			

<p>conducted by third party agencies regarding modern tool usage.</p>			
<p>PO6: The engineer and society</p> <p>Apply reasoning informed by the contextual knowledge to assess Societal, health,safety, legal and cultural issues and the consequent responsibilities relevant to the professional Engineering practice.</p>			
PO6	1.55	1.46	<p>Target not achieved.</p> <p>1. Solving dynamic problem and greedy techniques found to be Difficult.</p> <p>2. Students find it difficult to solve mathematical derivation concepts & Problems.</p> <p>3.Students find it difficult to solve Turing machine concepts & Push Down Automata.</p>
<p>Action 1: Additional classes to be conducted to introduce data structures concepts.</p> <p>Action 2: More assembly level programming to be taught in tutorial classes.</p> <p>Action 3: Practical approach of teaching programming to be adapted.</p> <p>Action 4: More problems will be given for practice.</p>			
<p>PO7: Environment and sustainability</p> <p>Understand the impact of the professional engineering solutions in</p>			

societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.			
PO7	1.58	1.65	<p>Target achieved.</p> <p>Hence the same practice will be continued for the next year.</p> <p>Best practices like WhatsApp is used for intra department communication to eliminate the need of papers.</p>
<p>Action 1: Students are encouraged to indulge in mini projects/projects where societal and environmental issues can be addressed.</p> <p>Action 2: Students are strictly instructed to switch off all electrical Equipment /Resources when not in use for all the laboratories.</p> <p>Action 3: Best Practices like rain water harvesting,solar power source are employed at our college.</p>			
<p>PO8: Ethics</p> <p>Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice</p>			
PO8	1.93	1.89	<p>Target not achieved.</p> <p>1.Solving dynamic problem and greedy techniques found to be Difficult.</p> <p>2. Students find it difficult to solve</p>

			<p>mathematical derivation concepts & Problems.</p> <p>3.Students find it difficult to solve Turing machine concepts & Push Down Automata.</p>
<p>Action 1: Additional classes to be conducted to introduce data structures concepts.</p> <p>Action 2: More assembly level programming to be taught in tutorial classes.</p> <p>Action 3: Practical approach of teaching programming to be adapted.</p> <p>Action 4: More problems will be given for practice.</p>			
<p>PO9: Individual and team work</p> <p>Function effectively as an individual, and as a member or leader in diverse teams and in Multidisciplinary settings.</p>			
PO9	1.45	1.36	<p>Target not achieved.</p> <p>It has been observed that some students did not perform given task individual as required.</p>
<p>Action 1: Motivate students to participate more in National/State/inter and intra college tech fest sports meet, technical and cultural activities to generate the feeling of leadership and working in teams.</p> <p>Action 2: Final year projects give in group so that to enhance team spirit to work in team collaborations.</p>			

PO10: Communication			
Communicate effectively on complex engineering activities with the engineering community and with society at large. Such as being able to comprehend and write effective reports and design documentation. make effective presentations and give clear instructions			
PO10	1.37	1.51	Target achieved. The speaking and writing skill should be improve
<p>Action 1: . HR activities such as Group discussion, Personal interview, webinar and Technical interview were conducted.</p> <p>Action 2: Alumni talks were conducted.</p> <p>Action 3: Student presentations like seminar, project were organized.</p>			
PO11: Project management and finance			
Demonstrate knowledge and understanding of the engineering and management principles and apply these to one s own work as a member and leader in a team, tomanage projects and in multidisciplinary environments.			
PO11	1.96	1.96	Target achieved. 1.More activities should be organized in Project management and finance skill. 2. Events should be conducted on Intellectual Property Rights and Patents

Action 1: Target will be retained and will be observed for next academic year. Fundamentals are taught in Managerial Economics and Financial Analysis.

Action 2: Students are encouraged to prepare project proposals with the guidance of faculty.

PO12: Life-long learning

Recognize the need and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

			Target achieved.
PO12	1.20	1.52	Mini projects/ projects which is part of the curriculum has helped the students to perform better in placement interviews and higher studies.

Action 1: Target will be retained and will be observed for next academic year.

Action 2: Students will be motivated to register for GRE/TOEFL/GATE and other competitive examinations.

PSOs Attainment Levels and Actions for Improvement

PSOs	Target Level	Attainment Level	Observations
PSO1:			Apply standard Software Engineering Practice's and strategies in real-time software project development using open-source programming environment or commercial environment to deliver quality product for the

organization success.			
PSO1	1.89	2.5	<p>Target achieved.</p> <p>Require more exposure of industry oriented problems.</p>
<p>Action 1: Students are motivated to take up the real life problems during their project work so that they can design, analyze and find solution which gives exposure to latest technologies.</p> <p>Action 2: Virtual labs were included in labs for understanding design and development solutions.</p> <p>Action 3: Alumni and Expert talks were organized.</p> <p>Action 4: Remedial / Revision classes were conducted.</p>			
<p>PSO2: Design and develop computer programs /computer-based systems in the areas related to algorithms, networking, web design, cloud computing, IoT and data analytics of varying complexity.</p>			
PSO2	1.95	1.98	<p>Target achieved.</p> <p>Improved frequency of organizing training and workshop in the field of Machine Learning Data Analytics.</p>
<p>Action 1: Various Training programs, Workshops and Industrial visits were organized.</p> <p>Action 2: Emphasis on industry oriented problems.</p> <p>Action 3: Practical pedagogy of teaching was adapted for Design and development</p>			

<p>solutions.</p> <p>Action 4: More problems were given for practice and extra classes had been conducted.</p> <p>Action 5: Organized seminar and guest lecturers in recent technology of computer science</p>			
<p>PSO3: Acquaint with the contemporary trends in industrial/research settings and there by innovate novel solutions to existing problems.</p>			
PSO3	1.97	1.95	<p>Target not achieved.</p> <p>Lack of adoption to changes in tools and technology in Artificial Intelligence and Machine Learning.</p>
<p>Action 1: Various Training programs, webinar Workshops were organized in Artificial Intelligence and Machine Learning.</p> <p>Action 2: Career awareness programs were in field of computer science and engineering.</p> <p>Action 3: Integrate technology deployment with change management.</p> <p>Action 4: Expert lectures were organized.</p> <p>Action 5: Virtual labs were included in labs for understanding tools and technology.</p>			

Table 7.1.5: Observations and Actions Taken

7.2. Academic Audit and actions taken thereof during the period of Assessment (10/10)

(Academic Audit system/process and its implementation in relation to Continuous Improvement)

Academic Audit:

Viswam Engineering College has an effective auditing system in place both through internal & external agencies.

1. Internal Audit

S. No	Name of the audit	Frequency	Analysis	Action taken
1.	Faculty contribution	Semester	Publications, conferences	Funding the faculty members to improve the publications and presentations in conferences
2.	Student quality enhancement	Semester	Student Publications, paper presentations	Paper publications for final year students per batch
3.	Teaching methodologies	Semester	Workshops, add on courses, collaborative	40% of the syllabus by innovative teaching methodologies, participation by

			learning techniques	students in hackathon
4.	Stock Verification	Semester	Library books, laboratories equipment, computers	To be maintained as per norms and usage of e resources

2. External Audit

S. No	Name of the audit	Frequency	Analysis	Action taken
1.	Jawaharlal Nehru Technological University , Ananatapur	Annual	Faculty, students, facility to run the curriculum	Fulfilling the curriculum requirements and making ready for the next academic year
2.	ISO	Annual	Preparation of various documents required towards quality improvement like Laboratories file, course files, publications of	Documentation aligned to NBA

			students and staff, feedback	
3.	NIRF	Annual	Data collection and analysis as per the requirements - Faculty, students ratio, publications, placements, higher education	Plan and Work towards the requirements
4.	AISHE	Annual	Faculty student ratio, ICT, class rooms, laboratories	Procurement of ICT equipment.

Internal audit is taken up by IQAC

Though an informal Internal Quality Assurance Cell was in existence since 2019-20, in the year 2022-23, IQAC was formally launched aiming at the improvement of quality standards of the institution through the adoption of diverse strategies. IQAC cell enjoys the unique distinction of being the most important of all the committees formed in the institution. The IQAC has been established exclusively to better the quality standards and devise a broad range of learner centric practices for academic excellence of the institute. Prior to the constitution of IQAC, each department was

having an internal quality assurance system which is taken care by two senior faculties. Course files, personal files, project files, lab files were introduced for the purpose of evaluating the performance and professional competencies of the faculty for their continuous improvement.

In the academic year 2019-20 the initiate of self appraisal was introduced facilitating the continuous self assessment of the faculty in all aspects of his/her professional career. This self appraisal initiative really helped a number of faculty to improve their qualifications and do various technical certificate courses, under take research in their respective field of specialization and paper publications.

Innovations and Entrepreneurship Development Cell(IEDC) was constituted in May 2019

1. To create an environment for self-employment and entrepreneurship development through formal and non-formal programs to introduce the concept of entrepreneurship in curricula at diploma and degree levels.
2. To develop management personnel at appropriate levels for the non-corporate and unorganized sectors like education, rural development, small-scale industry etc.
3. To utilize the infrastructure facilities and technically trained manpower for the development of non-corporate and unorganized sectors.
4. To promote employment opportunities

Quality engineering education coupled with innovative research and development is very much essential towards the overall progress of the institution. Keeping this in view and based on the recommendations of the IQAC a Research and Development cell is constituted. to promote and monitor the R & D Programs of the institution with a vision and mission to pursue and promote research in advanced technologies. R&D and

Consultancy Cell is headed by a senior faculty member as coordinator and supported by HODs, doctorates, research scholars and students of various departments. The cell manages all the research programs of the institution by monitoring and coordinating the R & D activities. It conducts the research review meetings to examine the quality of research undergoing in the institution. The R&D cell also recommends for the sanction of in-house research scholarships / incentives to students and faculty members for their research work and publications.

Quality Initiatives organised by IQAC

S.No	Name of the Program	Date of the program conducted
CAYm1 2022-23	1. A one day FDP on Pedagogy Basics for Engineering College Teachers.	5 th June 2022.
	2. A one day FDP on Pedagogy Basics for Engineering College Teachers.	21 July 2022.
	3. A one day FDP on Pedagogy Basics for Engineering College Teachers	5 th August 2022.
	4. Orientation Programme for the New Faculty.	21 August 2022.
	5. Students Empowerment Programme on Perceptual Orientation for career	5 th March 2022.

	<p>Success.</p> <p>6. Student Empowerment Programme on “Embracing Engineering”.</p>	18 th April 2022.
CAYm2 2021-22	<p>1. Workshop on Personal Leadership for Senior faculty.</p> <p>2. Orientation Programme for the New Faculty.</p> <p>3. A session on Accreditation-Washington Accord.</p> <p>4. Workshop on Creative teaching.</p> <p>5. FDP for Assistant Professors on Outcome Based Education.</p>	<p>15th July 21</p> <p>20th August,2021</p> <p>24th September 2021</p> <p>29th October 2021</p> <p>25th February2022</p>
CAYm3 2020-21	<p>1. Pedagogical Programme on Teaching Learning Skills to newly joined faculty.</p> <p>2. Development Programme on Psychology and Team Work.</p> <p>3. Programme for on Design Thinking-An experiential learning for faculty.</p> <p>4. Staff Development</p>	<p>13th June 2020</p> <p>4th July 2020</p> <p>19th September,2020</p>

	<p>Programme on Attitude and Personality Development.</p> <p>5. Workshop on Industrial Research and Consultancy.</p> <p>6. Workshop on Blooms Taxonomy for faculty.</p>	<p>31st October 2020</p> <p>5thDecember 2020</p> <p>19th December 2020</p>
--	---	---

Photo Gallery for IQAC Activities



Principal Dr.D.Ramana Reddy addressing the Participants on Students Empowerment Programme on Perceptual Orientation for career Success.



Students participating in Empowerment Programme on Perceptual Orientation for career Success.

VISWAM ENGINEERING COLLEGE
(Formerly Sir Vishveshwaraiah Institute of Science & Technology)
Madanapalle - 517 325
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2022-23, II-SEMESTER
FACULTY PERSONAL FILE STATUS

Name of the Program: B.Tech
Faculty: B. Sarajeeva Reddy

S.NO	Name of Faculty	2022-23	2021-22	2020-21	2019-20	2018-19
1	Bio-data Latest with all contribution	✓	✓	✓	✓	✓
2	Latest pay slip	✓	✓	✓	✓	✓
3	Self appraisal (year wise below mentioned items)	Yes	Yes	Yes	Yes	Yes
a	Incentives/awards/recognitions	✓	✓	✓	✓	✓
b	Member of external bodies (Jonna & EB/BoS/GB/EC of Prof. society etc.)	No	No	No	✓	No
c	ISTE -Professional memberships	✓	✓	✓	✓	✓
d	CS/IEEE/ITIEE or any other	✓	✓	✓	✓	✓
e	Promotion	✓	✓	✓	✓	✓
f	FDP organized	5	5	6	5	5
g	Faculty Development programs attended/resource person (6 days every year)	1	1	1	1	1
h	List of NPTEL courses certification done	✓	✓	✓	✓	✓
i	Conferences/Seminars/Workshop organized	5	5	5	5	5
j	Conferences/Seminars/Workshop attended	7	1	2	1	1
k	Invited lectures (Expert/Conferencetc.)	2	3	1	5	1
l	Responsibility in Committees-copp	✓	✓	✓	✓	✓
m	Industrial Visits/Training/Internships organized	1	1	1	1	1
n	Consulting Mentoring	20	20	20	20	20
o	Individual Time Table-copy	✓	✓	✓	✓	✓
p	List of projects guided; cover/certificate page	✓	✓	✓	✓	✓
q	List of online R & D projects documentation	Nil	Nil	✓	Nil	✓
r	List of funded R & D projects documentation	Nil	Nil	Nil	Nil	1
s	List of consultancy activities documentation	Nil	Nil	Nil	Nil	Nil
t	List of instructional materials like course files, lab manuals cover page	✓	✓	✓	✓	✓
u	List of working models/products development/incubation/start-ups	✓	✓	✓	✓	✓
v	Research publications (paper/posters/book/book chapters/relations etc)	Nil	Nil	Nil	Nil	Nil
w	List of projects received seed money	✓	✓	✓	✓	✓
x	Information fellowship for advanced studies/research	✓	✓	✓	✓	✓
y	List of innovative TLM methodologies	✓	✓	✓	✓	✓
z	List of working technology class room/LMS etc.	✓	✓	✓	✓	✓
4	Ph. D. awarded/guided	✓	✓	✓	✓	✓
5	Joining letter	✓	✓	✓	✓	✓
6	Appointment letter	✓	✓	✓	✓	✓
7	Bio-data at the time of applying	✓	✓	✓	✓	✓
8	All educational qualifications/certificates	✓	✓	✓	✓	✓
9	Other certificates of experience	✓	✓	✓	✓	✓
10	PAN card	✓	✓	✓	✓	✓
11	Ambarc card	✓	✓	✓	✓	✓
12	Form 16	✓	✓	✓	✓	✓
13	Any other activity	✓	✓	✓	✓	✓

Department of CSE
Viswam Engineering College
Angalla, Madanapalle-517325

VISWAM ENGINEERING COLLEGE
(Formerly Sir Vishveshwaraiah Institute of Science & Technology)
Madanapalle - 517 325
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2022-2023, II-SEMESTER
LABORATORY DESCRIPTION FILE

NAME OF THE PHYSICAL LABORATORY	Operating System Lab
NAME OF THE LAB INCHARGE (FOR PHYSICAL LAB-PL)	Y. Baraniki
NAME OF THE LAB ASSISTANT (FOR PHYSICAL LAB)	S. Sarajaja
NAME OF THE FACULTY INCHARGE (FOR CURRICULUM LAB-CL)	B. Sarajeeva Reddy

S.NO	LAB FILE:	
1	V.M. PEO, PO, PSO, COs and Mapping	✓
2	Lab occupancy chart (including names of lab, faculty incharges and support staff)	✓
3	List of experiments as per the syllabus	✓
4	List of experiments to be conducted including additional experiments and their CO/PSO mapping	✓
5	List of major equipments	✓
6	Class timetable highlighting the lab	✓
7	Total cost of the lab	✓
8	List of the equipment (date of purchase, cost, suppliers, indent, GRN, proposals, copy of bills)	✓
9	List of labelling /Number code of the equipment	✓
10	Do's and Don't's	✓
11	List of major non projects done by the students in this lab with documentation	✓
12	List of working models/prototypes/products with proper documentation	✓
13	List of additional experiments, design experiment, etc.	✓
14	Model Practical end examination questions	✓
15	Schedule of end practical examinations	✓
16	List of examiners	✓
17	Physical lab floor plan with area in sq.cm	✓
18	Cycle chart to know the batch size of experiment setup	✓
19	Inventory list	✓

Curriculum Lab Incharge: Y. Baraniki
Physical Lab Incharge: S. Sarajaja
Department of CSE
Viswam Engineering College
Angalla, Madanapalle-517325

VISWAM ENGINEERING COLLEGE
(Formerly Sir Vishveshwaraiah Institute of Science & Technology)
Madanapalle - 517 325
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2022-2023, II-SEMESTER

Course Name: B.Tech
Faculty Name: B. Jagadhana
Department: C.S.E
Course/subject code: 19A85803
Course/subject Title: B.Tech / Machine Learning
Class: AV
AY: 2022-23

Course Description File	Verified by course coordinator	Verified by HOD
Institute V.M-Principal Signed Xerox copy	✓	✓
PO/PSOs	✓	✓
Course syllabus with structure	✓	✓
Course Outcomes (CO)	✓	✓
Mapping CO with PO/PSO, Course with PO/PSO with justification	✓	✓
Academic Calendars (University, Department) -Xerox copy	✓	✓
Class Time Table-highlighting the course periods including tutorial	✓	✓
Lesson plan with number of hours/periods, FATM, Text/Reference Book	✓	✓
Gap within the syllabus-supporting to CO, PO/PSO	✓	✓
Gap beyond the syllabus -Mapping to PO/PSO	✓	✓
Gaps addressed by any resource person-document	✓	✓
Gaps addressed by any other teaching aid/methodology	✓	✓
Lecture notes	✓	✓
List of Power point presentations/Video including CD	✓	✓
Theoritical Questions papers	✓	✓
Internal Question papers mapped with CO and BTL	✓	✓
Assignment Question papers mapped with CO and BTL	✓	✓
Scheme of evaluation with CO and BTL mapping	✓	✓
Tutorial topics with evidence	✓	✓
Result analysis at the end of the course	✓	✓
Remedial class for weak students-schedule and evidence	✓	✓
Advance Learning - Engagement documentation	✓	✓
List of student certifications in relevant NPTEL courses	✓	✓
Course Assessment (Plus Examination)	✓	✓
CO, PO/PSO attainment sheets	✓	✓
CO-Feedback form, analysis	✓	✓
Student feedback analysis, corrective measures planned	✓	✓
observation for not attaining CO or for improvement	✓	✓
Plan of action to improve CO attainment next time	✓	✓

Signature: [Signature]
Department of CSE
Viswam Engineering College
Angalla, Madanapalle-517325

VISWAM ENGINEERING COLLEGE
(Formerly Sir Vishveshwaraiah Institute of Science & Technology)
Madanapalle - 517 325
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2022-2023, II-SEMESTER
PROJECT WORK DESCRIPTION FILE

Faculty Name: B. Jagadhana
Course Code: 19A85803
Course Title: Project
Course Regulation: R19
Semester: B.Tech IV Year II Semester

S.NO	Activity	Verified by course project coordinate	Verified by HOD
1	Identifying the expertise with the faculty area of specialization	✓	✓
2	Grouping students in teams	✓	✓
3	Take the option from the teams for the area of the project they want to work	✓	✓
4	Map the teams with the guide	✓	✓
5	Project review committee need to be formed	✓	✓
6	Teams meet the guide and finalize the topic (with PO relevance)	✓	✓
7	1 st review	✓	✓
8	Finalize the list of teams/guide/topics/area of specialization	✓	✓
9	1 st review schedule	✓	✓
10	Evaluation 1	✓	✓
11	Consolidation of Evaluation 1	✓	✓
12	2 nd review schedule	✓	✓
13	Evaluation 2	✓	✓
14	Consolidation of Evaluation 2	✓	✓
15	Internal marks consolidation	✓	✓
16	Submission of project report/thesis to (hard/soft)	✓	✓
17	External evaluation schedule	✓	✓
18	Final marks grade	✓	✓
19	Publication list	✓	✓
20	Awards in project expose	✓	✓
21	Best 10 projects in last 3 years	✓	✓
22	Industrial interaction evidence, if any	✓	✓
23	PO attainment from projects	✓	✓

Signature: [Signature]
Department of CSE
Viswam Engineering College
Angalla, Madanapalle-517325

Verification of Course Files/ Lab Files / Project File / Personal files by IQAC member

7.3. Improvement in Placement, Higher Studies and Entrepreneurship (10/10)

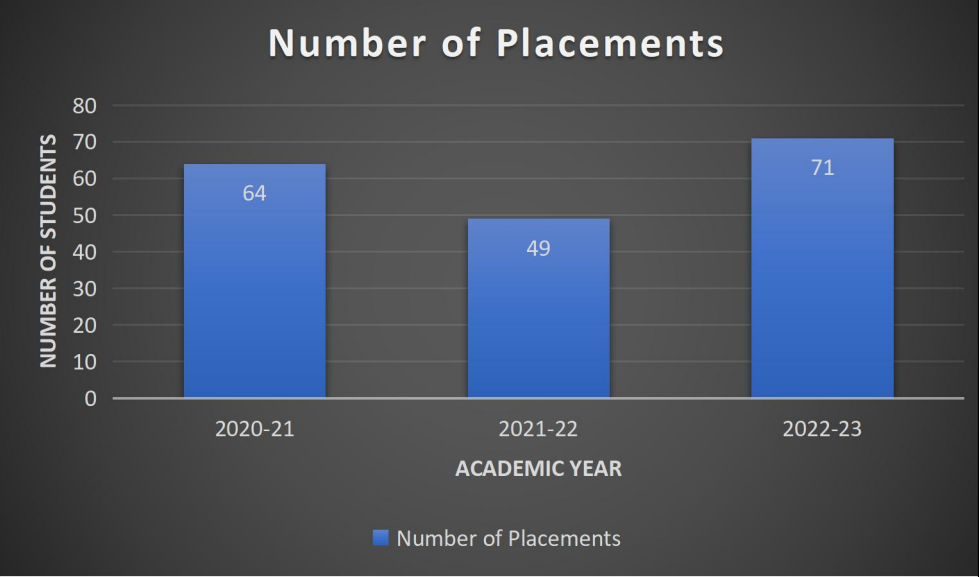
Assessment is based on improvement in:

- Placement: number, quality placement, core industry, pay packages etc.
- Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier institutions
- Entrepreneurs

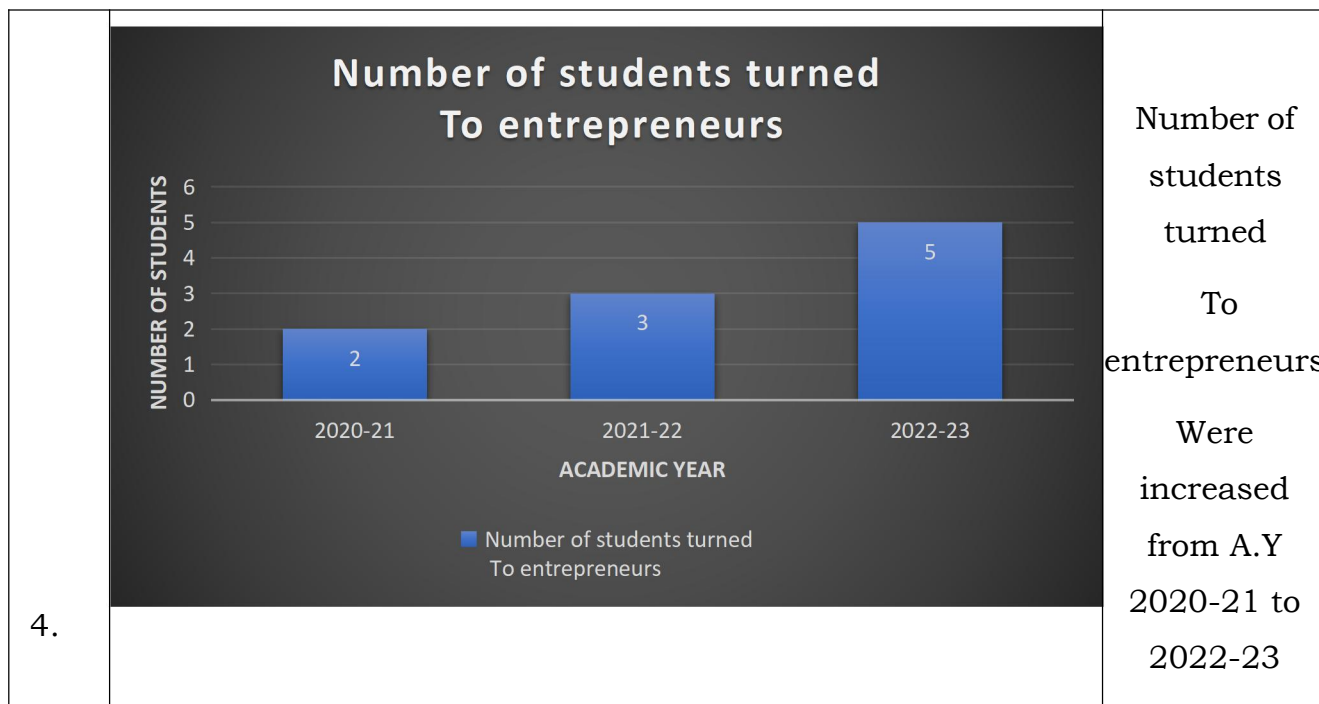
ITEM	CAYm1 (2022-23)	CAYm2 (2021-22)	CAYm3 (2020-21)
No. Of students placed in companies or government sector (PLACEMENTS)	71	49	64
Avg. CTC P. A	6.0L	4.0L	2.4L
No of students admitted to higher studies with valid qualifying scores (HIGHER STUDIES)	6	4	3
No of students turned entrepreneur in engineering/ technology (ENTREPRENEURS)	5	3	2

Table 7.3.1: Student's improvement in placements, higher education and Entrepreneurship

Placement Assessment and Trends

SNO.	Representation	Trend Description								
1.	 <p style="text-align: center;">Number of Placements</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Academic Year</th> <th>Number of Placements</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>64</td> </tr> <tr> <td>2021-22</td> <td>49</td> </tr> <tr> <td>2022-23</td> <td>71</td> </tr> </tbody> </table>	Academic Year	Number of Placements	2020-21	64	2021-22	49	2022-23	71	<p>Placements increased from A.Y 2021-22 to A.Y 2022-23</p>
Academic Year	Number of Placements									
2020-21	64									
2021-22	49									
2022-23	71									

<p>2.</p>	<p>Average CTC P.A</p> <p>Average CTC P.A in Lakhs</p> <table border="1"> <thead> <tr> <th>Academic Year</th> <th>Average CTC P.A (Lakhs)</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>2.4</td> </tr> <tr> <td>2021-22</td> <td>4</td> </tr> <tr> <td>2022-23</td> <td>6</td> </tr> </tbody> </table>	Academic Year	Average CTC P.A (Lakhs)	2020-21	2.4	2021-22	4	2022-23	6	<p>Average CTC is observed to be increased from A. Y 2020-21 to A.Y 2022-23</p>
Academic Year	Average CTC P.A (Lakhs)									
2020-21	2.4									
2021-22	4									
2022-23	6									
<p>3.</p>	<p>Number of Students Admitted to Higher Studies</p> <p>Number of Students</p> <table border="1"> <thead> <tr> <th>Academic Year</th> <th>Number of Students</th> </tr> </thead> <tbody> <tr> <td>2020-21</td> <td>3</td> </tr> <tr> <td>2021-22</td> <td>4</td> </tr> <tr> <td>2022-23</td> <td>6</td> </tr> </tbody> </table>	Academic Year	Number of Students	2020-21	3	2021-22	4	2022-23	6	<p>Number of students admitted to higher studies were increased from A.Y 2020 to A.Y 2022-23</p>
Academic Year	Number of Students									
2020-21	3									
2021-22	4									
2022-23	6									



7.4. Improvement in the quality of students admitted to the program (10/10)

Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage marks in Physics, Chemistry and Mathematics in 12th Standard and percentage marks of the lateral entry students.

ITEM		CAY (2023- 24)	CAYm1 (2022-23)	CAYm 2 (2021- 22)	CAYm3 (2020- 21)
National Level Entrance Examination (Name of the Entrance Examination)	No. of Students admitted	-	-	-	-
	Opening Score/Ran k	-	-	-	-
	Closing Score/Rank	-	-	-	-
State/University /Level Entrance Examination/ Others	No. of Students admitted	120	102	119	106
	Opening	42654	44303	33266	17363

(EAMCET)	Score/Rank				
	Closing Score/Rank	14973 8	172335	12939 0	12467 5
Name of the Entrance Examination for Lateral Entry or Lateral entry details ECET	No. of Students admitted	-	3	1	3
	Opening Score/Rank	-	6334	2347	3546
	Closing Score/Rank	-	7661	2347	3784
Average CBSE/Any other Board Result of admitted students(Physics, Chemistry & Mathematics)		74.41	72.8785	70.908 2	68

Table 7.4.1: Students admitted to the institute with board results

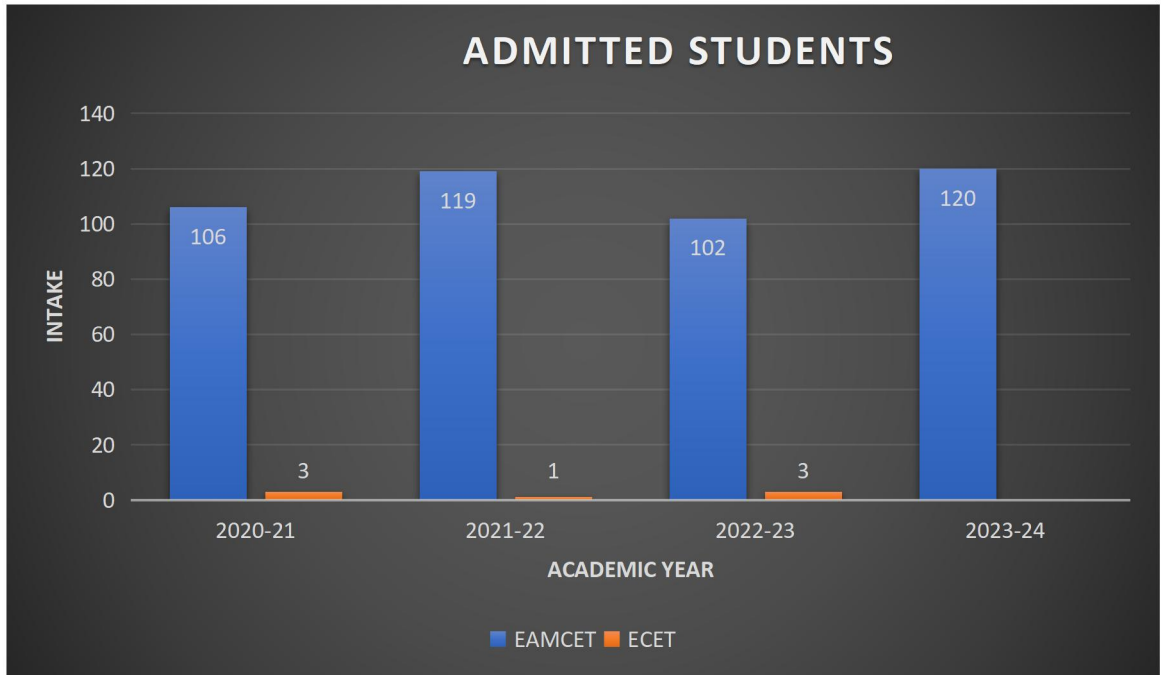


Figure.7.4.1: Number of students admitted to the department for last 4 years

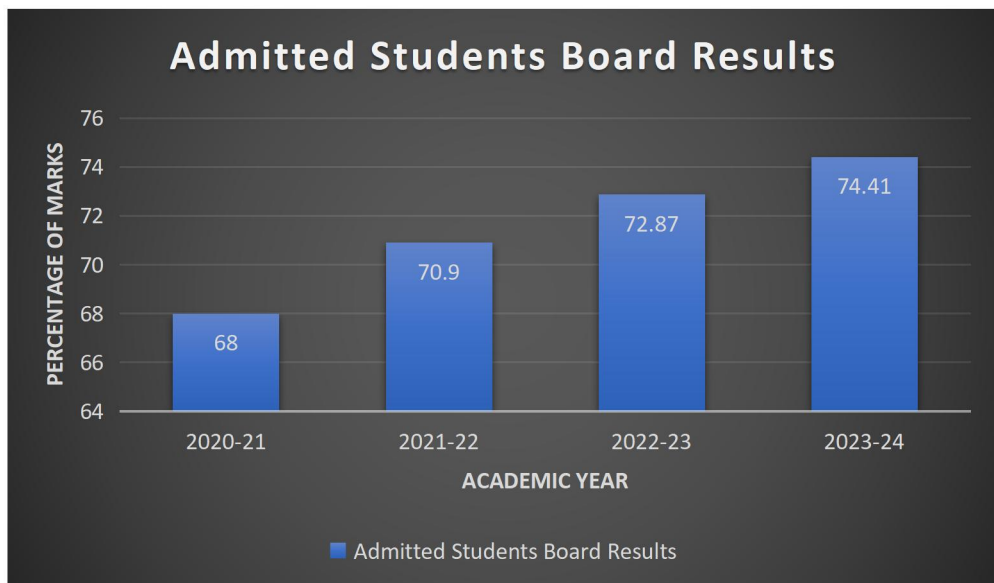


Figure.7.4.2: Board results of admitted students for last 4 years

Students Admitted: CAY (2023-24)

S. No.	Students Admitted	Total Intake
Regular		
1	120	120

Students Admitted: CAYm1 (2022-23)

S. No.	Students Admitted	Total Intake
Regular		
1	102	120
Lateral Entry		
2	3	12

Table 7.4.2: Admission

details Students Admitted: CAYm2 (2021-22)

S. No.	Students Admitted	Total Intake
Regular		
1	119	120
Lateral Entry		
2	1	12

Table 7.4.3: Admission

details Students Admitted: CAYm3 (2020-21)

S. No.	Students Admitted	Total Intake
Regular		
1	106	120
Lateral Entry		
2	3	12

Table 7.4.4: Admission details

Criterion 8	First Year Academics	44.67/50
--------------------	-----------------------------	-----------------

8.1 First Year Student-Faculty Ratio (FYSFR) (5)

8.1 Faculty Ratio (FYSFR) (5) Assessment = (5×15)/Average FYSFR (Limited to Max.5)

Year	Number of Students (approved intake strength) N	Number of Faculty members (considering fractional load) F	FYSFR (N/F)	*Assessment= (5*20)/FYSFR (Limited to Max.5)
2023-24 (CAY)	420	31	14	5
2022-23 (CAYm1)	420	29	14	5
2021-22 (CAYm2)	420	26	16	5
Average	420	28	14	5

S. NO.	NAME OF THE FACULTY	PAN No	Qualification	Date of Receiving highest degree	Area of Specialization	Designation	Date of Joining	CAY 2023-24	CAYm1 2022-23	CAYm2 2021-22	Currently Associated (Y/N)	Nature of Association (Regular / Contract / Adjunct)	Date of Leaving (in Case)	Currently Associated (No')
1	Dr. Ch. Kalyani	BIOPK 6214R	Ph.D	25-09-2016	Fluid Dynamics	Professor	25-08-2023	100	0	0	YES	Regular		
2	Dr. T. Sreenivasulu Reddy	AGIPT 3396E	Ph.D	18/10/2016	Physics	Professor	17-08-2009	100	100	100	YES	Regular		
3	Dr. Krishnaveni	DXNP K4219L	Ph.D	11/12/2019	Physics	Professor	8/21/2023	100	0	0	YES	Regular		

CRITERION -8
CSE- SAR

4	Dr. D Sai Lakshmi	CSTPS 9649J	Ph.D	16/10/2021	English	Associate Professor	10-09-2021	100	100	100	YES	Regular	
5	Dr. S Geethan Kumar	HPPK 0397Q	Ph.D	29/01/2020	Mathematics	Associate Professor	7/1/2019	100	100	100	YES	Regular	
6	Dr. K Madhu Sudhan Reddy	COYP K2894G	Ph.D	31/10/2018	Chemistry	Associate Professor	5/10/2022	100	100	100	YES	Regular	
7	Dr. K Uday Kumar	CMMP K6813P	Ph.D	28/08/2023	Physics	Associate Professor	1/17/2020	100	100	100	YES	Regular	
8	Mr. V Vijay Kumar	APSPV 6929E	M.SC	1/7/2011	Mathematics	Assistant Professor	10/8/2010	100	100	100	YES	Regular	
9	Mr. S Arshad Ali	HBQP S1095R	M.A	23/11/2001	English	Assistant Professor	7/1/2019	100	100	100	YES	Regular	
10	Mr. K Jaya Prakash	CSNP K3991H	M.SC	5/21/2012	Mathematics	Assistant Professor	3/16/2020	100	100	100	YES	Regular	
11	Mrs. K Haritha	AWCP H5779H	M.SC	4/10/2017	Organic Chemistry	Assistant Professor	2/3/2021	100	100	100	YES	Regular	
12	Mrs. C Harshitha	ANXP H6296F	M.A	4/10/2018	English	Assistant Professor	03/04/2023	100	100	100	YES	Regular	
13	Mr.G Ravindra Reddy	CDQP G0939R	M.SC	22/06/2015	Applied Mathematics	Assistant Professor	15/07/2023	100	0	0	YES	Regular	
14	Mrs.M Sunitha	FIKPM 8029J	M.SC	01/05/2017	Chemistry	Assistant Professor	8/6/2023	100	0	0	YES	Regular	
15	Mr. D Shekshavalli	CYRPS 7675E	M.SC	5/11/2015	Mathematics	Assistant Professor	1/7/2020	100	100	100	YES	Regular	
16	Mrs. T Lakshmidevi	AQUP T1282F	M.A	14/02/2011	English	Assistant Professor	2/22/2021	100	100	100	YES	Regular	
17	Mr. D Venkata Subba Reddy	BLRP D6497H	M.SC	24/03/2007	Mathematics	Assistant Professor	09/12/2019	100	100	100	YES	Regular	
18	Mr. K Damodar Reddy	CEHP K9617N	M.SC	29/09/2015	Mathematics	Assistant Professor	21/03/2022	100	100	0	YES	Regular	
19	Mr. B Mahendranath Reddy	ATZPB 7727K	M.SC	20/11/2014	Chemistry	Assistant Professor	21/03/2022	100	100	0	YES	Regular	
20	Mrs. G Prasanthi	BWKP G5250M	M.SC	27/10/2010	Physics	Assistant Professor	10-05-2022	100	100	0	YES	Regular	
21	Mr.A Gangadhar Reddy	DDXP G1399P	M.SC	#####	Chemistry	Assistant Professor	3/12/2022	100	0		YES	Regular	
22	Dr.L Thimmaiah	ACUPL 3900C	Ph.D	7/9/2007	Civil Engineering	Professor	23/11/2023	100	0	0	YES	Regular	
23	Dr.V RAMESH	BKMP R8912D	Ph.D	9/3/2020	EEE	Professor	3/6/2021	100	100	100	YES	Regular	
24	Ms.T Madhubala	FIDBP 5877E	MBA	5/5/2015	MBA	Assistant Professor	6/15/2020	100	100	100	YES	Regular	
25	Ms.V Sunitha	KOHP S7516J	MBA	29/01/2020	MBA	Assistant Professor	5/4/2021	100	100	100	YES	Regular	
26	Mr.E Siva	AAZPE 4553D	MCA	6/11/2014	MCA	Assistant Professor	14/09/2016	100	100	100	YES	Regular	
27	Mrs.S Sailaja	KHDP S2627P	M.SC	15/04/2021	Computer Science	Assistant Professor	15/06/2021	100	100	100	YES	Regular	
28	Mr. M. Praveen Naik	DTPR R0351L	CSE	10/5/2015	Information Technology	Assistant Professor	09/08/2021	100	100	100	YES	Regular	
29	Ms. G M Anasuya	BCWP G1468H	M.Tech	21/04/2017	Electrical Power Systems	Assistant Professor	22/11/2021	100	100	100	YES	Regular	

30	Mr Ratnaswamy	CIBPR 5528K	M E	11/06/2018	Constuction Engineering and Management	Assistant Professor	08/01/2021	100	100	100	YES	Regular	
31	Mr. S B Anjappa	BRVP A6035N	M.Tech	5/5/2016	Mechanical Engineering	Assistant Professor	07/01/2019	100	100	100	YES	Regular	
32	Mrs. V. Spandana	AMIPV 0400H	M.SC	2/8/2011	Chemistry	Assistant Professor	8/2/2019	100	100	100	NO	Regular	20/02/2023
33	Ms. Pavana Lekha	EPFPP 2416R	M.SC	4/12/2013	Physics	Assistant Professor	12/12/2019		50	100	NO	Regular	03/07/2023
34	Mr.K Naresh Kumar	CFQP N4572R	M.SC	11/5/2018	Chemistry	Assistant Professor	2/15/2021			100	NO	Regular	23/06/2022

8.2 Qualification of Faculty Teaching First Year Common Courses (3.33/5)

Assessment of qualification = $(5x + 3y)/RF$, x = Number of Regular Faculty with Ph. D,

y = Number of Regular Faculty with Post-graduate qualification

RF = Number of faculty members required as per SFR of 20:1, Faculty definition as defined in 5.1

Year	x (Number Of Regular Faculty with Ph. D)	y (Number Of Regular Faculty with Post graduate Qualification)	RF (Number Of Faculty Members required as per SFR of 20:1)	Assessment Of Faculty Qualification [$(5x + 3y) / RF$]
2023-24	9	19	21	4
2022-23	5	17	21	3
2021-22	4	18	21	3
Average Assessment:		3.33		

8.3 First Year Academic Performance (6.34/10)

Academic Performance = ((Mean of 1st Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of Attainment of Course Outcomes of first year courses (10) marks in First Year of all successful students / 10)) x (number of successful students / number of students appeared in the examination)

Successful students are those who are permitted to proceed to the second year.

Academic Performance	2022-23 (CAYm1)	2021-22 (CAYm2)	2020-21 (CAYm3)
Mean of CGPA or mean percentage of all successful students(X)	6.9	6.5	6.44
Total Number of successful students(Y)	100	110	103
Total Number of students appeared in the examination(Z)	102	119	106
API [X*(Y/Z)]	6.76	6.01	6.26
Average API [(AP1+AP2+AP3)/3]	6.34		

8.4. Attainment of Course Outcomes of first year courses (10/10)

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

Course Assessment Process for Theory Courses:

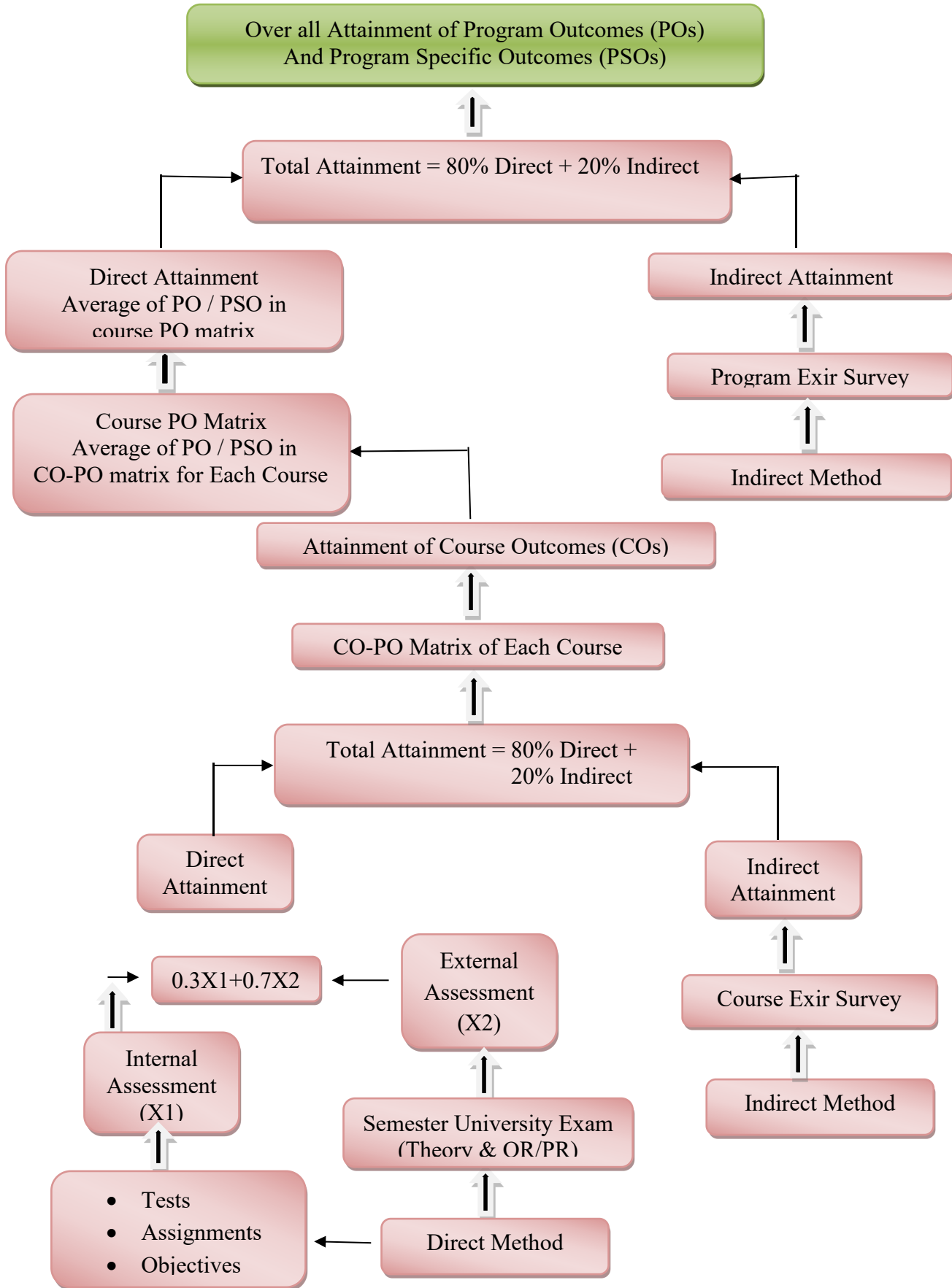
Course Assessment processes used to gather the data upon which the evaluation of Course Outcome is estimated based on Direct and Indirect Assessment processes given below:

Direct Assessment:

- Internal examinations (Twice in Semester)
 - ❖ Subjective examination
 - ❖ Objective examination
 - ❖ Assignment
- University examination (Semester end examination)

Indirect Assessment:

→ CO feedback (on completion of course)



Attainment of Program Outcomes (POs), Program Specific Outcomes (PSOs) and Course Outcomes (COs)

I. Internal examination:

The CO attainment from internal exam is based on internal marks of each student which has two mid-term examinations of 30 marks each that split into Descriptive of 15 marks, Objective of 10 marks and Assignments of 5 marks. Internal question paper analysis is done in which each question is mapped with a CO. The CO attainment result value always based on number of students scored above the threshold marks out of the attempted students. Class average mark was taken as threshold value. It is made sure that the entire five COs are covered in two internal examinations. Objective and Assignments also cover the entire COs. The CO percentage score is computed the same as above and is assigned to each.

A sample attainment sheet of Applied Physics Course based on two internal examinations is shown below:

Name of the Subject with Code : Applied Physics (20A54202)

Name of the Faculty : Dr. T. Srinivasulu Reddy

Year & Sem : I B.Tech. II Sem **Academic Year** : 2022-23

Branch : CSE

S.No.	Hall Ticket Number	Name of the Student	Descriptive												Objective		Assignment		External Marks	
			MID-1						MID-2						Mid -1	Mid -2	Mid -1	Mid -2		
			Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 1	Q 2	Q 3	Q 4	Q 5	Q 6						
1	22W51A0501	A Subramanyam	5		5		5		5				5		2	6	5	3	5	65
2	22W51A0502	Appanaboyana Harinath		2		2		4		3	4		4			4	8	5	5	33
3	22W51A0503	Are Manasa	5		5		5		5		5		5		5	8	9	5	5	46
4	22W51A0504	Bandaru Balu		5		5		5		4		5		5	8	10	5	5	51	
5	22W51A0505	Bandi Indrasena			2				2		3					8	10	0	5	27
6	22W51A05	Basivi	4			1	4			3		3		2	9	10	5	5	42	

	06	Dhanunjaya																	
7	22W51A05 07	B Sai Prakash Reddy		3		2		2	1		3			3	10	5	5	10	
8	22W51A05 08	B Mohan Kumar	5		4		5			4		2		4	5	10	5	5	45
9	22W51A05 09	Betti Raviteja		2	2				3		1		4		3	10	5	5	7
10	22W51A05 10	B Ganesh Teja	3			2		3		2		2			5	10	0	5	39
11	22W51A05 11	Bhupathi Poojitha		2	4		2		3		3		3		5	10	5	5	29
12	22W51A05 12	Boggana Aswitha	4		2			4							4		5	0	
13	22W51A05 13	Chapiri Divya Sree		5		4	4		5		5		5		5	9	5	5	60
14	22W51A05 14	Cheekati Prabhu Kumar	4		4			3		1		2		3	7	10	5	5	36
15	22W51A05 15	C Lokeshwar Reddy		3		3	4								4		5	0	
16	22W51A05 16	Cheelamanagu tta Nandini	2		3			3	1		2		2		5	10	0	5	8
17	22W51A05 17	Chirla Reddy Kishore		2		2	2			2		2		2	2	10	0	5	14
18	22W51A05 18	Chukka Nandini	2		3			2	1		2		2		4	10	5	5	19
19	22W51A05 19	Cirivela Parveen		3		3	3			4		4		4	4	10	5	5	27
20	22W51A05 20	Dakshiraju Syam Raju	2		3			3	2		2		2		4	10	5	5	17
23	22W51A05 23	Dwaranala Tharun		1		2	2								9		5	0	

	Descriptive												Objective		Assign ment		Exter nal Mark s
	Mid-1						Mid-2						Mid -1	Mid -2	Mi d- 1	Mi d- 2	
	Q 1	Q2	Q3	Q4	Q5	Q6	Q1	Q2	Q3	Q4	Q5	Q6					
Average Mark:	2.88	2.98	3.42	3.19	3.36	3.11	2.98	2.95	3.52	3.15	3.25	2.93	5.95	9.63	4.10	4.50	31.22
Mappin g Course Outcomes:	C O 1	CO 1	CO 2	CO 2	CO1	CO 2	CO3	CO 3	CO 4	CO4	CO 5	C O5	CO1 CO2	CO3 CO4 CO5	CO 1 CO 2	CO 3 CO 4 CO 5	CO1, CO2 CO3, CO4 CO5
Number of Students above average mark:	29	29	20	18	21	17	28	26	23	14	18	21	60	74	79	90	48
No. of Students Attempted:	49	49	50	47	45	45	48	42	50	40	40	40	99	90	100	100	93
% of Students above Average Mark :	59.18	59.18	40.00	38.30	46.67	37.78	58.33	61.90	46.00	35.00	45.00	52.50	60.61	82.22	79.00	90.00	51.61
Average % of Students above Avg Marks:	59.18	39.15	46.67	37.78	60.12	40.50	48.75	60.61	82.22	79.00	90.00	51.61					

DESCRIPTIVE ATTAINMENT

S.No.	COURSE OUTCOME	% OF STUDENTS ABOVE AVERAGE IN THE RESPECTIVE CO's		AVERAGE	ATTAINMENT	% of ATTAINMENT
1	C122.1	59.18	46.67	52.93	2.00	66.67
2	C122.2	39.15	37.78	38.46	0.00	0.00
3	C122.3	60.12		60.12	3.00	100.00
4	C122.4	40.50		40.50	1.00	33.33
5	C122.5	48.75		48.75	1.00	33.33

OBJECTIVE ATTAINMENT

S.No.	COURSE OUTCOME	% OF STUDENTS ABOVE AVERAGE IN THE RESPECTIVE CO's	AVERAGE	ATTAINMENT	% of ATTAINMENT
1	C122.1	60.61	60.61	3	100.00
2	C122.2	60.61	60.61	3	100.00
3	C122.3	82.22	82.22	3	100.00
4	C122.4	82.22	82.22	3	100.00
5	C122.5	82.22	82.22	3	100.00

ASSIGNMENT ATTAINMENT

SNO	COURSE OUTCOME	% OF STUDENTS ABOVE AVERAGE IN THE RESPECTIVE CO's	AVERAGE	ATTAINMENT	% of ATTAINMENT
1	C122.1	79.00	79.00	3	100.00

2	C122.2	79.00	79.00	3	100.00
3	C122.3	90.00	90.00	3	100.00
4	C122.4	90.00	90.00	3	100.00
5	C122.5	90.00	90.00	3	100.00

INTERNAL ATTAINMENT

S.No	COURSE OUTCOM E	40% DISCRIPTIV E	40% OBJECTIV E	20% ASSIGNMEN T	TOTAL ATTAINMEN T	% of ATTAINMEN T
1	C122.1	0.80	1.20	0.60	2.60	86.67
2	C122.2	0.00	1.20	0.60	1.80	60.00
3	C122.3	1.20	1.20	0.60	3.00	100.00
4	C122.4	0.40	1.20	0.60	2.20	73.33
5	C122.5	0.40	1.20	0.60	2.20	73.33

II University examination:

Being affiliated to JNTUA Ananthapur, the semester end examinations are conducted by the university to award 70 marks. The CO Attainment is based on university examination marks of each student. The attainment result value always based on number of students scored above the threshold marks out of the attempted students. Class average mark was taken as threshold value. As the question wise performance of the students was not announced by the university, the overall student performance is taken as equally contributing to all COs. A sample attainment sheet of Applied Physics Course based on university examinations is shown below:

EXTERNAL ATTAINMENT

S.No.	COURSE OUTCOME	% OF STUDENTS ABOVE AVERAGE	ATTAINMENT	% of Attainment
1	C122.1	51.61	2	66.67
2	C122.2	51.61	2	66.67
3	C122.3	51.61	2	66.67
4	C122.4	51.61	2	66.67
5	C122.5	51.61	2	66.67

DIRECT COURSE OUTCOME ATTAINMENT

S.No	COURSE OUTCOME	INTERNAL ATTAINMENT	EXTREANAL ATTAINMENT	30% INTERNAL	70% EXTERNA L	TOTAL ATTAINMENT	% of Attainment
1	C122.1	2.60	2.00	0.78	1.40	2.18	72.67
2	C122.2	1.80	2.00	0.54	1.40	1.94	64.67
3	C122.3	3.00	2.00	0.90	1.40	2.30	76.67
4	C122.4	2.20	2.00	0.66	1.40	2.06	68.67
5	C122.5	2.20	2.00	0.66	1.40	2.06	68.67

III CO Feedback process:

The CO feedback obtained based on specific learning outcomes from each student at the end of semester. Feedback rating was based on the 1-3 scaling like 3-High, 2-Medium, 1-Low. From these survey results are tabulated and the average values corresponding to each CO are determined.

Indirect CO Assessment = Sum of student's response reacted the expected levels in answering the survey /Number of students responded

The sample CO feedback based on overall learning process of the student of the Academic Year 2022-23 of I B.Tech. I semester CSE is shown below:

S. No.	QUESTIONNAIRE	Overall Rating
SPECIFIC LEARNING OUTCOMES - Linear Algebra and Calculus		
C111.1	Solve linear system of equations and calculate the Eigen values and Eigen vectors of the given square matrices.	2.57
C111.2	Apply Cayley – Hamilton theorem to find the inverse and powers of a square matrix and diagonalise the square matrix.	2.43
C111.3	Analyse mean value theorems to the given function.	2.43
C111.4	Utilize the technique of partial differentiation to find the Jacobean and the extreme values of functions of several variables.	2.35
C111.5	Apply the techniques of multiple integrals to find the areas and volumes.	2.43
SPECIFIC LEARNING OUTCOMES – Chemistry		
C112.1	Describe Planck's quantum theory, dual nature of matter, Schrodinger equation, molecular orbital Theory and molecular orbital energy level diagram of different molecules	2.57
C112.2	Explain Crystal field theory, splitting in octahedral and tetrahedral geometry and the magnetic behaviour, Oxidation state, coordination and colour of complexes.	2.43

C112.3	Apply the principle of Band diagrams of conductors, superconductor, semiconductors and insulator and nonmaterial	2.43
C112.4	Discuss the principles of electrochemistry in potentiometry, conductometry, battery and electrochemical sensors	2.35
C112.5	Explain polymerization and the preparation, properties, and applications of thermoplastics &thermosetting, elastomers, & conducting polymers	2.35
SPECIFIC LEARNING OUTCOMES – C-Programming & Data Structures		
C113.1	Analyse the basic concepts of C programming language.	2.38
C113.2	Design applications in C programs using functions, arrays, strings, pointers and structures	2.3
C113.3	Apply the concepts of Stacks and Queues in solving real-world problems	2.25
C113.4	Interpret the concept of Linked Lists and explore various operations on Linked lists	2.25
C113.5	Analyse the concept of trees and graphs.	2.33
SPECIFIC LEARNING OUTCOMES – Basic Electrical & Electronics Engineering		
C114.1	Analyse simple electrical circuits with DC excitation, Network theorems and simple AC circuits consists of RL, RC and RLC elements	2.49
C114.2	Explain principle and operation of DC Generator, DC motor, Transformer and Induction motor	2.07
C114.3	Understand about electrical power generation,	2.06

	transmission and distribution	
C114.4	Interpret the characteristics of special purpose diodes and its applications	2.02
C114.5	Describe the operation of operational amplifiers and its applications	2.12
SPECIFIC LEARNING OUTCOMES – Engineering Workshop		
C115.1	Apply wood working skills in real world applications.	2.43
C115.2	Build different parts with metal sheets in real world applications.	2.35
C115.3	Apply fitting operations in various applications.	2.33
C115.4	Apply different types of basic electric circuit connections.	2.38
C115.5	Demonstrate soldering and brazing.	2.33
SPECIFIC LEARNING OUTCOMES – IT Workshop		
C116.1	Disassemble and Assemble a Personal Computer and prepare the computer ready to use.	2.32
C116.2	Install different operating systems in a computer and utilize the features of operating system.	2.29
C116.3	Prepare the Documents using Word processors and LAtex, Prepare spread sheets for calculations using excel and prepare Slide presentations using presentation tool.	2.32
C116.4	Install Antivirus software in a computer and use it to check for threats to the computer.	2.27
C116.5	Interconnect two or more computers for information sharing.	2.27
SPECIFIC LEARNING OUTCOMES – Chemistry Lab		

C117.1	Determine the cell constant and conductance of solutions and the strength of an acid by conductometry	2.37
C117.2	Synthesize of advanced polymer materials	2.32
C117.3	Measure the strength of an acid present in secondary battery and Ferrous ion using volumetric analysis	2.40
C117.4	Determine the potentials and EMFs of solutions by Potentiometry	2.32
C117.5	Identify some organic and inorganic compounds by instrumental methods	2.38
SPECIFIC LEARNING OUTCOMES- C-Programming & Data Structures Lab		
C118.1	Demonstrate the basic concepts of C programming language.	2.38
C118.2	Develop C programs using functions, arrays, strings, structures and pointers.	2.30
C118.3	Illustrate the concepts of Stacks and Queues and apply them.	2.25
C118.4	Design operations on Linked lists.	2.25
C118.5	Analyse the concept of trees and apply various Binary tree traversal techniques.	2.33
SPECIFIC LEARNING OUTCOMES- Basic Electrical & Electronics Engineering Lab		
C119.1	Test the concept of circuit laws and network theorems	2.59
C119.2	Determine the characteristic of DC generator and DC Motor also speed control of DC Motor.	2.58

C119.3	Analyse the characteristics of solar panel, transformer and induction motor	2.63
C119.4	Recognize the characteristics of special purpose diodes and BJT's	2.59
C119.5	Analyse the characteristics of wave shaping circuits and amplifiers using op - amps	2.58

A sample sheet for indirect attainment of Applied Physics Course based on Student's feedback is given below:

INDIRECT COURSE OUTCOME ATTAINMENT

S.No.	COURSE OUTCOME	ATTAINMENT	% of Attainment
1	C122.1	2.76	92.00
2	C122.2	2.69	89.67
3	C122.3	2.75	91.67
4	C122.4	2.65	88.33
5	C122.5	2.72	90.67

IV Overall Attainment process:

Each faculty computes the overall attainment of the COs based on the internal, university examinations and the CO feedback as per the weightage mentioned below:

	Tool	Frequency	Weightage
Direct Attainment	Internal examination	Twice per semester	30%

	University examination	End of the semester	70%
Indirect Attainment	CO Feedback	Completion of course	
Overall Attainment	80% of Direct Attainment + 20% of Indirect Attainment		

Student attainment is calculated using the following Rubrics:

% Students attained	Attainment Level
$\geq 60\%$	3
$50\% \geq \& < 60\%$	2
$40\% \geq \& < 50\%$	1
$< 40\%$	0

Each faculty performs the CO-PO mapping at the beginning of the semester to identify the gaps and takes corrective measures. The overall contribution of the course to the POs is taken as the set target for the course. Each faculty analyses the attainment status based on the set target and identifies the improvements.

Mapping strength of a course outcome can be obtained by taking the average of the CO-CO-PO mapping matrices of that course.

Set Target of CO C122.1 = Average of CO-PO mapping Averages

$$= (2+2)/2 = 2$$

A sample sheet for overall attainment of Applied Physics Course is given below:

OVERALL COURSE OUTCOME ATTAINMENT

S. No.	Course Outcome	Direct Attainment	Indirect Attainment	80% of Direct	20% of Indirect	Final Attainment	% of Attainment	Set Target	Attained /Not
1	C122.1	2.18	2.76	1.74	0.55	2.30	76.53	2.00	Attained
2	C122.2	1.94	2.69	1.55	0.54	2.09	69.67	2.00	Attained
3	C122.3	2.30	2.75	1.84	0.55	2.39	79.67	2.00	Attained
4	C122.4	2.06	2.65	1.65	0.53	2.18	72.60	2.00	Attained
5	C122.5	2.06	2.72	1.65	0.54	2.19	73.07	2.00	Attained

PO Attainment:

Program Outcomes assessment process is given below:

The CO-PO mapping has been done with correlation levels of 3, 2, 1 and '-'. The notation of 3, 2 and 1 denotes substantially (high), moderately (medium) and slightly (low). The meaning of '-' is no correlation between CO and PO. POs are defined by Accreditation Agencies of the country (NBA in India), which are the statements about the knowledge, skills and attitudes, graduate attributes incorporated in a formal engineering program. The NBA laid down the graduate attributes relating to programme outcomes and is to be derived by the program. Program Specific Outcomes are the statements that indicate what the graduates of a specific engineering program should execute what they are capable of performing.

Sample of CO-PO Matrix Mapping for the course Applied Physics is given below:

Name of the Subject with Code : Applied Physics (20A54202)

Name of the Faculty : Dr. T. Srinivasulu Reddy

Year & Sem

: I B.Tech. II Sem

Academic Year : 2022-23

Branch : CSE

CO-PO-PSO Mapping

S.No	COURSE OUTCOME	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2
1	C122.1	2	2												
2	C122.2	2	3	1											
3	C122.3	2	2												
4	C122.4	2	2												
5	C122.5	2	2	2	2										
Average		2.0	2.2	1.5	2.0										

Each PO attainment of corresponding to a particular course is determined from the attainment values obtained for each course outcome related to that PO and the CO-PO mapping values. Similarly, the values of PSO attainment are also determined. Using CO-PO mapping, the mapped POs are considered for assessment.

Course Articulation Matrix

S.No	COURSE OUTCOME	PO 1	PO2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2
1	C122.1	1.53	1.53												
2	C122.2	1.39	2.09	0.70											
3	C122.3	1.59	1.59												
4	C122.4	1.4	1.45												

		5													
5	C122.5	1.4 6	1.46	1.4 6	1.4 6										
AVERAGE		1.4 9	1.63	1.0 8	1.4 6										

Course Assessment Process for Laboratory Courses:

As per AICTE curriculum Lab courses consists of continuous internal evaluation (CIE) for 30 marks and Semester End Examination (SEE) for 70 marks for all labs. CO-PO attainment has to be done based on the daily lab assessment sheet of the laboratory. In that particular sheet the lab assessment has been done daily for 30 marks. and those 30 marks are split into three division i.e, Daily Practical, Record/Observation & Viva-Voice.

- After the daily lab assessment, the CO-PO attainment was calculated based on the class average marks.

After taking the class average, the number of students attained more than class average were identified.

- Based on that percentage of students attained the course outcomes was calculated. The same percentage was taken for the mapped course outcome.

Example: The following is the CO attainment for Applied Physics Laboratory

Name of the laboratory (Code): APPLIED PHYSICS LAB (20A56201P)

Name of the Faculty : Dr. T. Sreenivasulu Reddy

Year & Sem : I B.Tech. I Sem **Academic Year** : 2022-23

Branch : CSE

S.No.	Hall Ticket Number	Name of the Student	Internal Marks (30 marks)	External Marks (70 marks)
1	22W51A0501	A Subramanyam	25	65
2	22W51A0502	Appanaboyana Harinath	24	67

3	22W51A0503	Are Manasa	25	65
4	22W51A0504	Bandaru Balu	29	69
5	22W51A0505	Bandi Indrasena	24	62
6	22W51A0506	Basivi Dhanunjaya	27	68
7	22W51A0507	B Sai Prakash Reddy	25	63
8	22W51A0508	B Mohan Kumar	28	68
9	22W51A0509	Betti Raviteja	25	64
10	22W51A0510	B Ganesh Teja	26	66
11	22W51A0511	Bhupathi Poojitha	27	68
12	22W51A0513	Boggana Aswitha	29	69
13	22W51A0514	Chapiri Divya Sree	27	68
14	22W51A0516	Cheekati Prabhu Kumar	24	65
15	22W51A0517	C Lokeshwar Reddy	24	64
16	22W51A0518	Cheelamanagutta Nandini	25	65
17	22W51A0519	Chirla Reddy Kishore	25	65
18	22W51A0520	Chukka Nandini	26	64
19	22W51A0521	Cirivela Parveen	29	69
20	22W51A0522	Dakshiraju Syam Raju	29	69

Average Mark:	26.49	66.05
Mapping Course Outcomes:	CO1, CO2 CO3, CO4 CO5	CO1, CO2 CO3, CO4 CO5
Number of Students above average mark:	52	56
No. of Students Attempted:	93	93
% of Students above Average Mark:	55.91	60.22

INTERNAL ATTAINMENT				
S.No.	COURSE OUTCOME	% OF STUDENTS ABOVE AVERAGE	ATTAINMENT	% of ATTAINMENT
1	C128.1	55.91	2.00	66.67
2	C128.2	55.91	2.00	66.67
3	C128.3	55.91	2.00	66.67
4	C128.4	55.91	2.00	66.67
5	C128.5	55.91	2.00	66.67

EXTERNAL ATTAINMENT				
S.No.	COURSE OUTCOME	% OF STUDENTS ABOVE AVERAGE	ATTAINMENT	% of Attainment
1	C128.1	60.22	3	100.00
2	C128.2	60.22	3	100.00
3	C128.3	60.22	3	100.00
4	C128.4	60.22	3	100.00
5	C128.5	60.22	3	100.00

DIRECT COURSE OUTCOME ATTAINMENT							
S.No	COURSE OUTCOME	INTERNAL ATTAINMENT	EXTREANAL ATTAINMENT	30% INTERNAL	70% EXTERNA L	TOTAL ATTAINMENT	% of Attainment
1	C128.1	2.00	3.00	0.60	2.10	2.70	90.00
2	C128.2	2.00	3.00	0.60	2.10	2.70	90.00
3	C128.3	2.00	3.00	0.60	2.10	2.70	90.00
4	C128.4	2.00	3.00	0.60	2.10	2.70	90.00
5	C128.5	2.00	3.00	0.60	2.10	2.70	90.00

INDIRECT COURSE OUTCOME ATTAINMENT			
S.No.	COURSE OUTCOME	ATTAINMENT	% of Attainment
1	C128.1	2.42	80.67

2	C128.2	2.45	81.67
3	C128.3	2.43	81.00
4	C128.4	2.46	82.00
5	C128.5	2.49	83.00

A sample sheet for overall attainment of Applied Physics Laboratory is given below:

OVERALL COURSE OUTCOME ATTAINMENT									
S.No	Course Outcome	Direct Attainment	Indirect Attainment	80% of Direct	20% of Indirect	Final Attainment	% of Attainment	Set Target	Attained / Not
1	C128.1	2.70	2.42	2.16	0.48	2.64	88.13	1.80	Attained
2	C128.2	2.70	2.45	2.16	0.49	2.65	88.33	1.80	Attained
3	C128.3	2.70	2.43	2.16	0.49	2.65	88.20	1.80	Attained
4	C128.4	2.70	2.46	2.16	0.49	2.65	88.40	1.80	Attained
5	C128.5	2.70	2.49	2.16	0.50	2.66	88.60	1.80	Attained

PO Attainment for the Course Applied Physics Laboratory**CO-PO-PSO Mapping**

S.No	COURSE OUTCOME	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PS O1	PS O2
1	C128.1	2	2	2	2	1									
2	C128.2	2	2	2	2	1									
3	C128.3	2	2	2	2	1									
4	C128.4	2	2	2	2	1									
5	C128.5	2	2	2	2	1									
AVERAGE		2	2	2	2	1									

Course Articulation Matrix

S.No	COURSE OUTCOME	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
1	C128.1	1.7 6	1.7 6	1.7 6	1.7 6	0.8 8									
2	C128.2	1.7 7	1.7 7	1.7 7	1.7 7	0.8 8									
3	C128.3	1.7 6	1.7 6	1.7 6	1.7 6	0.8 8									
4	C128.4	1.7 7	1.7 7	1.7 7	1.7 7	0.8 8									
5	C128.5	1.7 7	1.7 7	1.7 7	1.7 7	0.8 9									
AVERAGE		1.7 7	1.7 7	1.7 7	1.7 7	0.8 8									

8.4.2 Record the attainment of Course Outcomes of all first-year courses (5/5)

Program shall have set attainment levels for all first year courses.

(The attainment levels shall be set considering average performance levels in the university examination or any higher value set as target for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect the COs of a subject plus the performance in the University examination)

Overall CO Attainments of I B.Tech Ist & IInd Semesters (2022-23 AY) of CSE

S.No	Course Code	Course Name	Course Outcome	Direct Attainment	Indirect Attainment	Overall Attainment (0.8xDirect) + (0.2xIndirect)	Set Target	Attainment Status
1	20A54101	Linear Algebra and Calculus	C111.1	1.24	2.86	1.56	2.00	Partially Attained
			C111.2	1.24	2.93	1.58	2.00	Partially Attained
			C111.3	1.36	2.84	1.66	2.00	Partially Attained
			C111.4	1.36	2.79	1.65	2.00	Partially Attained
			C111.5	1.36	2.76	1.64	2.00	Partially Attained
2	20A51101 T	Chemistry	C112.1	1.36	2.86	1.66	2.00	Partially Attained
			C112.2	1.36	2.78	1.64	2.00	Partially Attained
			C112.3	1.48	2.86	1.76	2.00	Partially Attained

			C112. 4	1.48	2.79	1.74	2.00	Partially Attained
			C112. 5	1.48	2.85	1.75	1.67	Attained
3	20A05201 T	C - Programmin g & Data Structures	C113. 1	1.48	2.38	1.66	1.83	Partially Attained
			C113. 2	1.36	2.30	1.55	1.57	Attained
			C113. 3	1.48	2.25	1.63	1.67	Attained
			C113. 4	1.48	2.25	1.63	2.00	Partially Attained
			C113. 5	1.36	2.33	1.55	1.57	Attained
4	20A02101 T	Basic Electrical & Electronics Engineering	C114. 1	1.24	2.86	1.56	1.67	Partially Attained
			C114. 2	1.12	2.82	1.46	1.67	Partially Attained
			C114. 3	1.36	2.79	1.65	2.00	Partially Attained
			C114. 4	1.60	2.81	1.84	2.00	Partially Attained
			C114. 5	1.36	2.74	1.64	2.00	Partially Attained
5	20A03202	Engineering Workshop	C115. 1	3.00	2.43	2.89	1.67	Attained

			C115. 2	3.00	2.35	2.87	1.67	Attained
			C115. 3	3.00	2.33	2.87	1.67	Attained
			C115. 4	3.00	2.38	2.88	1.33	Attained
			C115. 5	3.00	2.33	2.87	1.67	Attained
6	20A05202	IT Workshop	C116. 1	2.00	2.32	2.06	2.00	Attained
			C116. 2	2.00	2.29	2.06	2.00	Attained
			C116. 3	2.00	2.32	2.06	1.33	Attained
			C116. 4	2.00	2.27	2.05	1.50	Attained
			C116. 5	2.00	2.27	2.05	2.00	Attained
7	20A51101 P	Chemistry Lab	C117. 1	2.70	2.37	2.63	2.50	Attained
			C117. 2	2.70	2.32	2.62	2.50	Attained
			C117. 3	2.70	2.40	2.64	2.50	Attained
			C117. 4	2.70	2.32	2.62	2.50	Attained

			C117. 5	2.70	2.38	2.64	2.50	Attained
8	20A05201 P	C- Programmin g & Data Structures Lab	C118. 1	3.00	2.38	2.88	1.00	Attained
			C118. 2	3.00	2.30	2.86	1.25	Attained
			C118. 3	3.00	2.25	2.85	1.00	Attained
			C118. 4	3.00	2.25	2.85	1.25	Attained
			C118. 5	3.00	2.33	2.87	2.00	Attained
9	20A02101 P	Basic Electrical & Electronics Engineering Lab	C119. 1	1.70	2.86	1.93	1.75	Attained
			C119. 2	1.70	2.94	1.95	1.75	Attained
			C119. 3	1.70	2.79	1.92	1.50	Attained
			C119. 4	1.70	2.82	1.92	2.00	Attained
			C119. 5	1.70	2.79	1.92	2.00	Attained
10	20A54202	Probability & Statistics	C121. 1	1.94	2.51	2.05	2.00	Attained
			C121. 2	1.82	2.51	1.96	2.00	Attained

			C121. 3	1.94	2.52	2.06	2.00	Attained
			C121. 4	1.94	2.58	2.07	2.00	Attained
			C121. 5	2.06	2.57	2.16	2.00	Attained
11	20A56201 T	Applied Physics	C122. 1	2.18	2.76	2.30	2.00	Attained
			C122. 2	1.94	2.69	2.09	2.00	Attained
			C122. 3	2.30	2.75	2.39	2.00	Attained
			C122. 4	2.06	2.65	2.18	2.00	Attained
			C122. 5	2.06	2.72	2.19	2.00	Attained
12	20A52101 T	Communicat ive English	C123. 1	2.06	2.37	2.12	2.00	Attained
			C123. 2	1.94	2.37	2.03	2.00	Attained
			C123. 3	1.94	2.43	2.04	2.00	Attained
			C123. 4	1.94	2.35	2.02	1.50	Attained
			C123. 5	1.94	2.40	2.03	2.00	Attained

13	20A05101 T	Python Programmin g & Data Science	C124. 1	2.06	2.37	2.12	1.00	Attained
			C124. 2	2.18	2.29	2.20	1.25	Attained
			C124. 3	2.06	2.38	2.12	1.00	Attained
			C124. 4	2.18	2.37	2.22	1.25	Attained
			C124. 5	2.18	2.31	2.21	2.00	Attained
14	20A03101 T	Engineering Drawing	C125. 1	1.48	2.57	1.70	2.00	Attained
			C125. 2	1.60	2.43	1.77	2.00	Attained
			C125. 3	1.60	2.43	1.77	2.00	Attained
			C125. 4	1.60	2.35	1.75	2.00	Attained
			C125. 5	1.60	2.35	1.75	2.00	Attained
15	20A03101 P	Engineering Graphics Lab	C126. 1	3.00	2.46	2.89	1.33	Attained
			C126. 2	3.00	2.38	2.88	1.25	Attained
			C126. 3	3.00	2.37	2.87	1.20	Attained

			C126. 4	3.00	2.38	2.88	1.50	Attained
			C126. 5	3.00	2.45	2.89	1.67	Attained
16	20A52101 P	Communicat ive English Lab	C127. 1	2.00	2.94	2.19	2.00	Attained
			C127. 2	2.00	2.96	2.19	2.00	Attained
			C127. 3	2.00	2.85	2.17	2.00	Attained
			C127. 4	2.00	2.86	2.17	2.00	Attained
			C127. 5	2.00	2.76	2.15	2.00	Attained
17	20A56201 P	Applied Physics Lab	C128. 1	2.70	2.42	2.64	1.80	Attained
			C128. 2	2.70	2.45	2.65	1.80	Attained
			C128. 3	2.70	2.43	2.65	1.80	Attained
			C128. 4	2.70	2.46	2.65	1.80	Attained
			C128. 5	2.70	2.49	2.66	1.80	Attained
18	20A05101 P	Python Programmin	C129. 1	2.00	2.75	2.15	1.00	Attained

		g & Data Science Lab	C129. 2	2.00	2.78	2.16	1.25	Attained
			C129. 3	2.00	2.84	2.17	1.00	Attained
			C129. 4	2.00	2.76	2.15	1.25	Attained
			C129. 5	2.00	2.69	2.14	2.00	Attained

**CO Attainment Values from Indirect Assessment (Students' Feedback) of I.
B.Tech Ist & IInd Semesters (2022-23 AY) of CSE**

S.No	Course Code	Course Name	CO 1	CO 2	CO 3	CO 4	CO 5
1	20A54101	Linear Algebra and Calculus	2.5 7	2.4 3	2.4 3	2.3 5	2.3 5
2	20A51101T	Chemistry	2.8 6	2.7 8	2.8 6	2.7 9	2.8 5
3	20A05201T	C-Programming & Data Structures	2.3 8	2.3 0	2.2 5	2.2 5	2.3 3
4	20A02101T	Basic Electrical & Electronics Engineering	2.8 6	2.8 2	2.7 9	2.8 1	2.7 4
5	20A03202	Engineering Workshop	2.4 3	2.3 5	2.3 3	2.3 8	2.3 3
6	20A05202	IT Workshop	2.3	2.2	2.3	2.2	2.2

			2 7	9 2	2 0	7 2	7 8
7	20A51101P	Chemistry Lab	2.3 7	2.3 2	2.4 0	2.3 2	2.3 8
8	20A05201P	C-Programming & Data Structures Lab	2.3 8	2.3 0	2.2 5	2.2 5	2.3 3
9	20A02101P	Basic Electrical & Electronics Engineering Lab	2.8 6	2.9 4	2.7 9	2.8 2	2.7 9
10	20A54202	Probability & Statistics	2.5 1	2.5 1	2.5 2	2.5 8	2.5 7
11	20A56201T	Applied Physics	2.7 6	2.6 9	2.7 5	2.6 5	2.7 2
12	20A52101T	Communicative English	2.9 4	2.9 6	2.8 5	2.8 6	2.7 6
13	20A05101T	Python Programming & Data Science	2.3 7	2.2 9	2.3 8	2.3 7	2.3 1
14	20A03101T	Engineering Drawing	2.5 7	2.4 3	2.4 3	2.3 5	2.3 5
15	20A03101P	Engineering Graphics Lab	2.4 6	2.3 8	2.3 7	2.3 8	2.4 5
16	20A52101P	Communicative English Lab	2.3 7	2.3 7	2.4 3	2.3 5	2.4 0
17	20A56201P	Applied Physics Lab	2.4 2	2.4 5	2.4 3	2.4 6	2.4 9
18	20A05101P	Python Programming & Data Science Lab	2.7 5	2.7 8	2.8 4	2.7 6	2.6 9

**CO Attainment Values from Direct Assessment of I. B.Tech Ist & IInd Semesters
(2022-23 AY) of CSE**

S.No	Course Code	Course Name	CO 1	CO 2	CO 3	CO 4	CO 5
1	20A54101	Linear Algebra and Calculus	1.2 4	1.2 4	1.3 6	1.3 6	1.3 6
2	20A51101T	Chemistry	1.3 6	1.3 6	1.4 8	1.4 8	1.4 8
3	20A05201T	C-Programming & Data Structures	1.4 8	1.3 6	1.4 8	1.4 8	1.3 6
4	20A02101T	Basic Electrical & Electronics Engineering	1.2 4	1.1 2	1.3 6	1.6	1.3 6
5	20A03202	Engineering Workshop	3.0 0	3.0 0	3.0 0	3.0 0	3.0 0
6	20A05202	IT Workshop	2.0 0	2.0 0	2.0 0	2.0 0	2.0 0
7	20A51101P	Chemistry Lab	2.7	2.7	2.7	2.7	2.7
8	20A05201P	C-Programming & Data Structures Lab	3.0 0	3.0 0	3.0 0	3.0 0	3.0 0
9	20A02101P	Basic Electrical & Electronics Engineering Lab	1.7 0	1.7 0	1.7 0	1.7 0	1.7 0
10	20A54202	Probability & Statistics	1.9 4	1.8 2	1.9 4	1.9 4	2.0 6
11	20A56201T	Applied Physics	2.1	1.9	2.3	2.0	2.0

			8	4		6	6
12	20A52101T	Communicative English	2.0 6	1.9 4	1.9 4	1.9 4	1.9 4
13	20A05101T	Python Programming & Data Science	2.0 6	2.1 8	2.0 6	2.1 8	2.1 8
14	20A03101T	Engineering Drawing	1.4 8	1.6	1.6	1.6	1.6
15	20A03101P	Engineering Graphics Lab	3.0 0	3.0 0	3.0 0	3.0 0	3.0 0
16	20A52101P	Communicative English Lab	2.0 0	2.0 0	2.0 0	2.0 0	2.0 0
17	20A56201P	Applied Physics Lab	2.7 0	2.7 0	2.7 0	2.7 0	2.7 0
18	20A05101P	Python Programming & Data Science Lab	2.0 0	2.0 0	2.0 0	2.0 0	2.0 0

8.5 Attainment of Program Outcomes from first year courses (20/20)**8.5.1 Indicate results of evaluation of each relevant PO and/ or PSO, if applicable (15/15)**

(Describe the assessment processes that demonstrate the degree to which the Program Outcomes are attained through first year courses and document the attainment levels. Also include information on assessment processes used to gather the data upon which the evaluation of each Program Outcome is based indicating the frequency with which these processes are carried out)

Course Code	PO1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
20A54101	1.62	0.5 4										
20A51101T	1.71	0.5 7					0.8 7					
20A05201T	1.28	1.0 7	0.9 7	0.5 4	1.0 4	0.5 2				0.54		0.54
20A02101T	1.09	1.0 1	0.5 0									
20A03202	1.72		1.9 2						0.9 6			
20A05202	1.37	1.3 7		1.3 7	0.6 9				0.6 9	0.69		0.91
20A51101P	2.63						1.7 5					
20A05201P	1.53	1.1 4	0.9 5	0.9 5								

20A02101P	1.16	1.29	0.64						1.29	1.28		
20A54202	2.06	0.69										
20A56201T	1.49	1.63	1.08	1.46								
20A52101T								0.68	1.92	2.12		
20A05101T	1.17	0.87	0.72	0.72								
20A03101T	1.75	0.58	1.16									1.16
20A03101P	1.92	1.15	1.28		0.96						1.44	1.15
20A52101P									2.00	3.00		1.00
20A56201P	1.77	1.77	1.77	1.77	0.88							
20A05101P	1.15	0.86	0.72	0.72								

POs Attainment Level:

Course	PO 1	PO2	PO 3	PO 4	PO5	PO6	PO7	PO 8	PO9	PO1 0	PO11	PO12
Direct Attainment	1.59	1.04	1.06	1.08	0.89	0.52	1.31	0.68	1.37	1.53	1.44	0.95

PSOs Attainment:

S.No.	Course Code	Course Name	PSO1	PSO2
1	20A54101	Linear Algebra and Calculus		
2	20A51101T	Chemistry		
3	20A05201T	C-Programming & Data Structures		1.28
4	20A02101T	Basic Electrical & Electronics Engineering	0.96	
5	20A03202	Engineering Workshop		
6	20A05202	IT Workshop	1.37	
7	20A51101P	Chemistry Lab		
8	20A05201P	C-Programming & Data Structures Lab	0.95	1.34
9	20A02101P	Basic Electrical & Electronics Engineering Lab		
10	20A54202	Probability & Statistics		
11	20A56201T	Applied Physics		
12	20A52101T	Communicative English		
13	20A05101T	Python Programming & Data Science	0.71	1.02
14	20A03101T	Engineering Drawing	0.58	
15	20A03101P	Engineering Graphics Lab	1.44	
16	20A52101P	Communicative English Lab		
17	20A56201P	Applied Physics Lab		
18	20A05101P	Python Programming & Data Science Lab	0.72	1.00

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	1.00	1.21

8.5.2 Actions taken based on the results of evaluation of relevant POs (5/5)

Actions taken based on the results of evaluation of relevant POs (5)

(The attainment levels by direct (student performance) are to be presented through Program level Course-PO matrix as indicated)

POs Attainment Levels and Actions for Improvement-(2022-23)

POs	Target Level	Attainment Level	Observations
PO1: Engineering Knowledge			
PO 1	2.22	1.59	<p>The Courses 20A03202, 20A03101P are attained.</p> <p>The Courses 20A51101P, 20A05201P, 20A56201P are partially attained.</p> <p>The courses 20A54101, 20A51101T,20A05201T, 20A02101T, 20A05202, 20A02101P, 20A54202, 20A56201T, 20A05101T, 20A03101T, 20A05101P are not attained.</p>
<p>Action1: Conducted prerequisite courses to enhance their knowledge in the above subjects.</p> <p>Action2: Additional examples taught in tutorial classes of Algebra & Calculus and Chemistry</p> <p>Action 3: Extra classes were conducted to improve students' knowledge in Engineering Graphics Lab.</p>			

PO2: Problem Analysis			
PO 2	1.51	1.04	<p>The Course 20A03101P is attained.</p> <p>The Courses 20A05201P, 20A56201P are partially attained.</p> <p>The courses 20A54101, 20A51101T, 20A05201T, 20A02101T, 20A05202, 20A02101P, 20A05101T, 20A54202, 20A56201T, 20A03101T, 20A05101P are not attained.</p>
<p>Action 1: Additional examples were taught to students in tutorial classes of Linear Algebra & Calculus</p> <p>Action 2: Extra classes were conducted to improve students' knowledge.</p> <p>Action 3: Practice sessions were also organized for solving problems for the partially attained courses.</p>			
PO3: Design/development of Solutions			
PO 3	1.46	1.06	<p>The Courses 20A03202, 20A03101P are attained.</p> <p>The Courses 20A05201P, 20A05101P 20A05101T, 20A56201P are partially attained.</p> <p>The courses 20A05201T, 20A02101T, 20A03101T, 20A02101P, 20A56201T are not attained.</p>
<p>Action 1: More problems are given for courses Problem Solving & Programming.</p> <p>Action 2: Additional labs were conducted for Engineering Graphics Lab.</p> <p>Action 3: Conducted revisions classes for Probability & Statistics.</p>			
PO4: Conduct Investigations of Complex Problems			
PO 4	1.46	1.08	<p>The Courses 20A05201P, 20A05101T, 20A56201P, 20A05101P are partially attained.</p>

			The courses 20A05201T, 20A05202, 20A56201T are not attained.
<p>Action 1: Additional programs were given to students for practice in Problem Solving & Programming.</p> <p>Action 2: Assignments given to students to enhance their skills in problem solving.</p> <p>Action 3: Conducted seminars on applications of Mathematics to Engineering and Science.</p>			
PO5: Modern Tool Usage			
PO 5	1.50	0.89	<p>The course 20A03101P is attained.</p> <p>The Courses 20A05202, 20A56201P are partially attained. The course 20A05201T is not attained.</p>
<p>Action 1: Special Computer sessions and classes were conducted to make the students aware of the modern tools usage for the courses which are not attained.</p> <p>Action 2: New applications explained to enhance their skills in the courses Problem Solving & Programming and Data Structures</p>			
PO6: The Engineer and Society			
PO 6	1.00	0.52	The course 20A05201T is not attained.
<p>Action1: Students were advised to get exposed to real world problems by way of case studies.</p> <p>Action 2: Organize group discussions, conducted quiz programs, cultural activities.</p> <p>Action 3: Conducted fests, seminars and paper presentations on modern engineering and science.</p>			
PO7: Environment and Sustainability			
PO 7	1.75	1.31	<p>The Courses20A51101P is partially attained.</p> <p>The course 20A51101T is not attained.</p>

<p>Action 1: Organized awareness programs on environment.</p> <p>Action 2: Practical approach of protecting the nature: Harvest rain water, increase the plantation.</p>			
PO8: Ethics			
PO 8	1.00	0.68	The course 20A52101T is not attained.
<p>Action 1: More assignments were given for solving and practicing the problem.</p> <p>Action 2: studies were insisted on the importance of personal ethics and its influence on Profession.</p>			
PO9: Individual and Team Work			
PO 9	1.60	1.37	<p>The Course 20A03202 is attained.</p> <p>The Courses 20A05202, 20A52101T, 20A52101P are partially attained.</p> <p>The course 20A02101P is not attained.</p>
<p>Action 1: Organized sports, group discussions, language games and role plays which enhance their team skills.</p> <p>Action 2: Exhibit Scientific and Engineering models in National Science Day.</p>			
PO10: Communication			
PO 10	2.00	1.53	<p>The Course 20A05202 is partially attained.</p> <p>The courses 20A05201T, 20A02101P, 20A52101T, 20A52101P are not attained.</p>
<p>Action 1: Elocution, Essay writing competitions were conducted.</p> <p>Action 2: Conduct women empowerment programs.</p> <p>Action 3: Students were encouraged to participate in more Elocution, Essay writing competitions, seminars and presentations to improve their communication skills.</p>			
PO11: Project Management and Finance			

PO 11	1.50	1.44	The Course 20A03101P is attained.
<p>Action1: College fest budget assigned to them to get practical knowledge.</p> <p>Action 2: Organizing fresher's day and Annual day.</p>			
PO12: Life-long Learning			
PO 12	1.31	0.95	<p>The Course 20A03101P is attained.</p> <p>The Course 20A52101P is partially attained.</p> <p>The courses 20A05201T, 20A05202, 20A03101T are not attained.</p>
<p>Action 1: Students were told about the importance of education and how it would be helpful for them throughout their lives and were also encouraged to learn the content from the courses.</p> <p>Action 2: Seminars were conducted to promote practical knowledge with good practice sessions on designing and development of solutions.</p>			

PSOs Attainment Levels and Actions for Improvement - (2023-24)

PSOs	Target Level	Attainment Level	Observations
<p>PSO1: Apply standard software engineering practices and strategies in real-time software project development using open-source programming environment or commercial environment to deliver quality product for the organization success.</p>			
PSO 1	1.21	1.00	<p>The Courses 20A03202, 20A03101P are attained.</p> <p>The Courses 20A05201P, 20A05101T, 20A05101P are partially attained.</p> <p>The courses 20A05202, 20A03101T</p>

			are not attained.
<p>Action1: Conducted extra labs and classes to enhance their knowledge in the above subjects.</p> <p>Action2: Additional examples taught in tutorial classes of C-programming.</p>			
<p>PSO2: Design and develop computer programs / computer-based systems in the areas related to algorithms, networking, web design, cloud computing, IoT and data analytics of varying complexity.</p>			
PSO 2	1.65	1.21	<p>The Course 20A05201P is partially attained.</p> <p>The courses 20A05201T, 20A05101P,20A05101T are not attained.</p>
<p>Action 1: More questions in Python Programming & Data Science should be given to students to improve the concepts of programming.</p> <p>Action2: Additional practical labs conducted on Programming Lab</p> <p>Action 3: Extra classes were conducted to improve students' knowledge in Python programming.</p>			

Criterion 9	Student Support Systems	50/50
--------------------	--------------------------------	--------------

9.1 Mentoring system to help at the individual level (10/10)

Type of mentoring: Professional guidance/ career advancements/course work specific/ laboratory specific/ all-round development. Number of faculty mentors: Number of students per mentor: Meeting frequency.

9.1.1 Details of the Mentoring system has been developed for the benefit of students for various purposes and also state the efficacy of such system:

Mentoring System

An effective **Student mentoring system** (SMS) has been implemented in our institution.

- ❖ The Students Counseling & Mentoring Cell (SC&MC) aims to offer effective Mentoring and Counseling Support to students in their Course, Personal, Professional & Career Development and Progress for their overall development.
- ❖ The Institute emphasizes towards the enhancement of the institutional ambience and serves better to the needs of an ever-changing and dynamic learning community.
- ❖ To achieve this objective, a 'Mentoring System' has been adapted in the college.
- ❖ Effective mentoring has been developed by the faculty and depends on the healthy relationship between faculty and students.
- ❖ Each faculty will be a mentor of a group of 15-20 students.
- ❖ Mentoring books will be provided to all the mentors of the concerned department.
- ❖ First-year students will have mentors from the Department of Basic Sciences & Humanities, and second, third, and final-year students will have mentors from the parent department.
- ❖ Department faculty will continue to be the mentors for the same group of students till their graduation.

- ❖ The efficacy of such a system will be observed regularly.

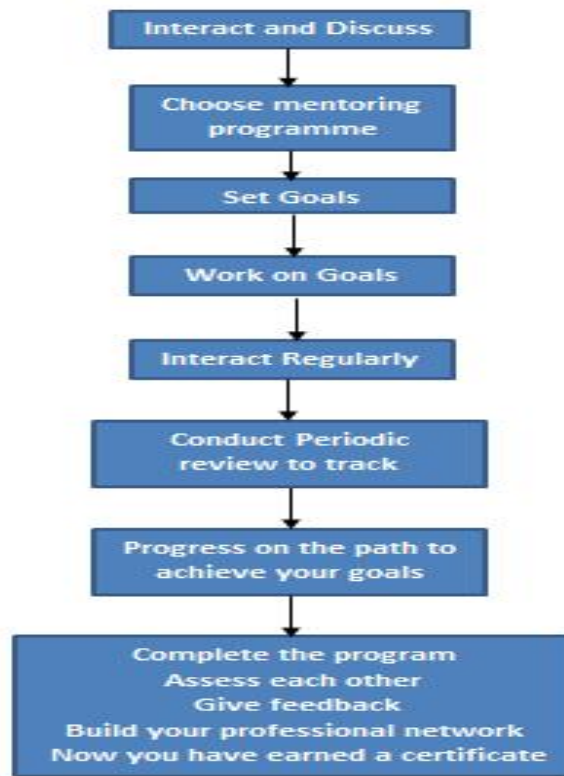


Fig 9.1.1 Mentoring Process

Functions of the cell:

- ❖ To identify specific needs of the student Community-Academic, personal career related and provide Mentoring and Counselling.
- ❖ Assisting students to independently monitor their progress towards achieving their educational and career goals.
- ❖ Guiding students to choose the right career path, job, higher studies, Entrepreneurship, etc....
- ❖ Counseling students for solving their problems and providing confidence to improve their quality of life and thereby improving Teacher & Student Relationship.

Responsibilities:

The mentor will perform the following functions.

- ❖ Meets the group of students once in a fortnight up to the end of the semester.
- ❖ Continuously monitor, counsel, guide, and motivate the students in all academic matters and all activities are discussed and noted in the mentoring book.
- ❖ Advise students regarding the choice of electives, projects, summer training, etc.
- ❖ Mentor the students regarding the coursework and laboratory.
- ❖ Contact parents/guardians, if the situation demands, i.e., Academic irregularities, negative behavioral changes, interpersonal relations, and negative activities, etc.
- ❖ Advise students in their career development/professional guidance.
- ❖ Encourage students to clear backlogs, if any, and also provide assistance in carrying out additional laboratory experiments.
- ❖ Keep in touch with the students even after their graduation.
- ❖ Intimate HOD and suggest, if any administrative action is called for.
- ❖ Maintain a detailed progressive record of the student.
- ❖ Maintain a brief and clear record of all discussions with students.
- ❖ HOD: The HOD will,
- ❖ Meet all mentors of his/her department to review the proper implementation of the system.
- ❖ Instruct mentors wherever and whenever necessary.
- ❖ Initiate an administrative action on a student when necessary.
- ❖ Keep the head of the institute being informed.

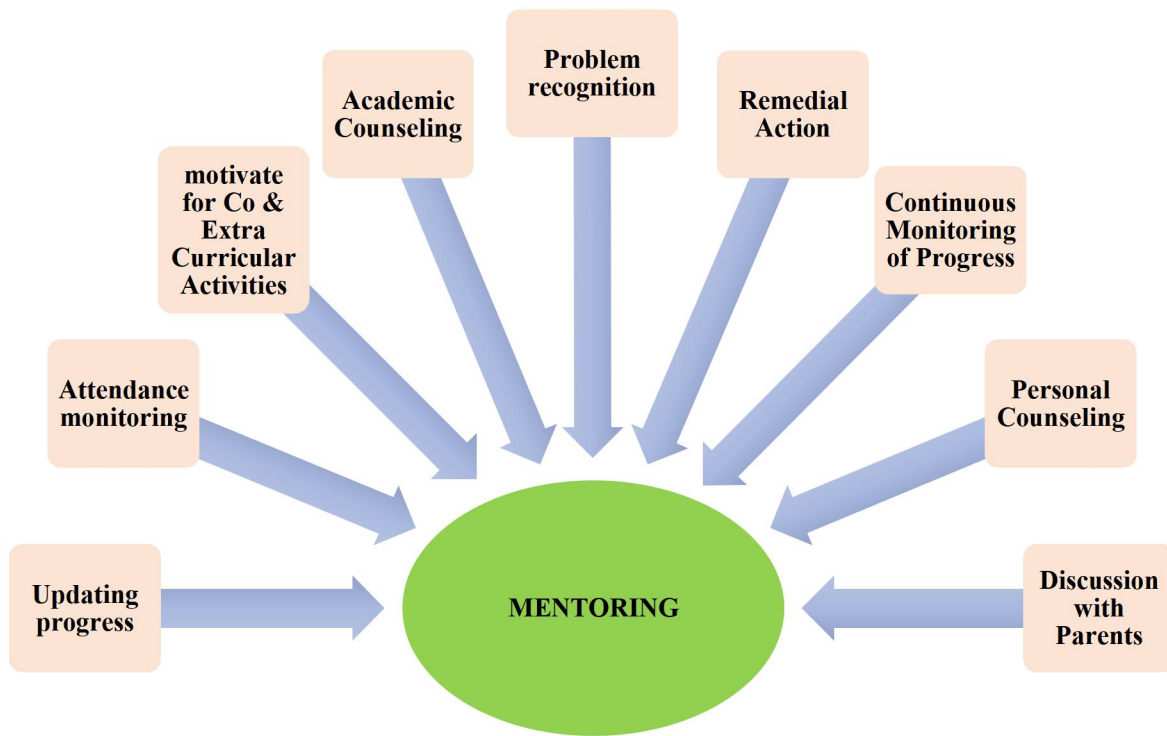


Fig.9.1.2 Roles of a mentor

Facilities of the cell:

- Student counselling & mentoring cell in the institution with an objective to reach the students in all aspects.
- To achieve this objective the institution formulated an organized mechanism, by linking faculty members, and administrative bodies to resolve the issues on a top-priority basis.
- Printing mentor-wise records (Mentoring Records) for the allotted mentees
- SMS package for communication
- Creation of WhatsApp Groups of Mentees & their Parents/Guardians

Members of the Cell

S. No.	Name of the Faculty	Position
1	Dr. D. Ramana Reddy	Principal

2	Dr. B. D. Venkataramana Reddy	Dean
3	Dr. D. Sai Lakshmi	Coordinator
4	Dr. R. Vasanth selva Kumar	HOD -CSE
6	Dr. C. H. Kalyani	HOD - H&S
7	T. Rama Krishna	Faculty- ECE
8	Dr. B. Reddi Ramu	Faculty -MBA
9	Senior Students one from each Dept/Branch	6 Members

Mentors Department Wise

S. No	Name of the Department	Name of the Mentor	Phone Number
1	CSE	Dr. V. Hemasree	7993501197
2	ECE	J. Maheswar Reddy	9398684173
3	H&S	Dr. K. Krishnaveni	6301688949
4	MEC	Mr. S. B. Anjappa	9900461878
6	AIDS	Mr. G. Pratap	9440883245

7	EEE	G. M. Anasuya	9618248646
8	CE	R. Raj Kumar	7305585427

Student Members in The Cell

S. No	Roll Number	Name of the Student	Dept
1	21W51A0540	K. Sana Anjum	CSE
2	21W51A0456	R. Sruthi	ECE
3	23W51A03013	M. Gayathri	AIDS
4	22W55A0101	A. Pavan Kumar	CIVIL
5	23W55A0209	M MANASA	EEE
6	23W51E0009	A. Mounika	MBA
7	22W55A0302	P. Hareesh	ME

Roles & responsibilities of cell coordinator/HODs

- Allotment of the students of 1st Semester to VIII Semester to mentor/Counselor in the range of 15 to 20 students/mentor who maintains the entire student information.
- Provision & Maintenance of a separate mentoring and counseling hour for each class as part of their timetable and the respective mentor meets the students in the said hour.

- Monitoring the preparation of monthly attendance of every student from every section and passing the information to the parents through proper channels.
- A mentoring record will be prepared and developed to check the counselling process.
- Holding periodic meetings with HODs in the presence of the principal to review the punctuality, regularity, and progress of the students towards academic performance, & may suggest/advise if observes any deviations.
- Meetings will be conducted once a month to know the students under various categories like weak/slow learners, rural background, less communication skills, and more backlogs which may lead to detained, and to solve students' problems with proper necessary suitable suggestions keeping in view the overall development of the student.

Mentor/Faculty Member

- To extend counseling support to students, the mentor performs the following functions:
- Track academic performance and advise on improvement
- Gather specific information on problems related to specific courses.
- Resolve difficulties faced by students in the usage of college facilities.
- Help out when personal issues interfere with academic performance.
- Extend support to students having acclimatization issues at college etc...
- Identify various career options and guide to choose the appropriate career path.
- Parents/ Guardians of poor attendance/performance students are called to meet the mentors and corrective measures are implemented for further improvement with knowledge of the HOD of the concerned department.

All Faculty Mentor - Activity

- Maintain the Mentor Record of each student in the standard format provided.

- Have a formal meeting with the assigned mentee at least twice a semester. He /she should make efforts to meet more often, particularly in the case of those students where he feels necessary.
- Monitor academic performance and attendance of the students.
- Send letters/e-mail/SMS regarding performance and attendance to parents, if necessary, and maintain the record.
- Make efforts to encourage students to improve their performance.
- Note the change of address or phone numbers in each meeting.
- Maintain a record of efforts taken for the improvement of students.
- Sign the report and submit it to the H.O.D. at the end of every semester for verification and further necessary actions.

STUDENT MEMBER

Senior students as the representatives of the cell in touch with the juniors with a friendly approach till they adjust to the atmosphere and provide information regarding counseling.

Guides the juniors in the subjects, referring books, and processors and in conducting the events.

Takes care of them in finding hostels/accommodation at competitive prices close to the college.

Acts as big brother & presents as & when problems arise.

Mentoring / Counseling Process

At the first-year level, each class is divided into batches of 20 students, and each batch is assigned to a faculty member of the Department of Sciences and Humanities, to act as a Counselor, also referred to as a Mentor.

- A Mentor Record is maintained for each student with his/her details along with
 - Performance at SSC and Intermediate level

- Future goals
- Strengths/ Weaknesses
- Family background
- The Mentor / Student counselor meets the batch of students initially and students are introduced to the process of mentoring/counseling existing in the institute. They are given confidence that any problem can be shared confidentially with the mentor who would support and help to get over it.
- The mentor tries to address any specific problems related to the transition to professional college education, as well as college facilities related to office, library, sports, and canteen or ragging.
- From the second year onwards, this mentorship will be transferred to a new faculty belonging to their branch of specialization. Lateral entry students joining in the second year are also attached to the mentors of the class. Students will be normally with the same mentor till they go out of college.
- The files contain information on
 - Academic performance during various semesters
 - Accomplishments/Failures academically or otherwise
- The mentors also have informal chats with students as part of counseling. As the same mentor is continued from II year onwards, the associated students develop a close relationship with the faculty member who helps them to share their problems freely or seek advice or guidance on various academic, co-curricular issues, and higher studies or professions.
- Mentoring is done during slots of students' separate mentoring and counseling hours for each class as part of their timetable and the respective mentor meets the students in the said hour. It may be done over and above as required.

Mentor & Mentee allotment:**Mentor: D. SANJEEVA REDDY****YEAR: III****BRANCH: CSE-A**

S. No	Name of the student	Roll. no	Phone number
1	E. Varun	21W51A052 1	7674996884
2	G. Farnaz	21W51A052 3	9398671747
3	G. Adarsh Kumar Reddy	21W51A052 4	8374658234
4	G. Ravi teja	21W51A052 5	9550663626
5	G. Dora babu Naidu	21W51A052 8	7995802986
6	G. Pravardhan	21W51A052 9	9701427382
7	G. Karthik	21W51A053 0	7815916478
8	G. Reddy Rakesh	21W51A053 2	9494024336
9	G. Teja	21W51A053 3	8688465932
10	J. Greeshma Gayathri	21W51A053 4	8106656166


11	K. Thameem Khan	21W51A053 6	8297810533
12	K. Charitha	21W51A053 7	9036449540
13	K. Pujitha	21W51A053 8	8790616640
14	K. Reddy Bhavana	21W51A053 9	9100807281
15	K. Sana Anjum	21W51A054 0	6300404671

Mentor: K. Vijaya Lakshmi**YEAR: III****BRANCH:****CSE-B**

S. No	Name of the student	Roll. no	Phone number
1	S. Sana kousar	21W51A059 8	9908705542
2	S. Zuber	21W51A059 9	9848475046
3	T. S. Suhana Begum	21W51A05A 1	9642288524
4	U. Pushpa Teja	21W51A05A 2	9496663926
5	V. Chiranjeevi	21W51A05A 3	9704573915

6	V. Yaswanth	21W51A05A 4	8790909960
7	V. Smitha Anjali	21W51A05A 5	9000436360
8	V. Brunda kiran mai	21W51A05A 6	9440870526
9	V. Sai Bhargavi	21W51A05A 7	8074991755
10	V. Sai Sudheer Reddy	21W51A05A 8	8106045438
11	V. Jaswanth Reddy	21W51A05A 9	7702467824
12	V. Reddy Shekar	21W51A05B 0	9618273521
13	Y. Surendra	21W51A05B 1	7989400578
14	Y. Deepika	21W51A05B 2	7702784936
15	Y. Lokesh Reddy	21W51A05B 3	9000434229

Viswam Engineering College
 Approved by AICTE, New Delhi & Affiliated To JNTUA, Ananthapuramu
 An ISO 9001:2015 Certified Institution
 Angallu, Madanapalle-517325, Annamayya Dist., AP.



MENTOR DIARY

Name	: B Mohan kumar
Branch	: CSE
Section	: CSE - Ramana
Roll No	: RA051A0508
Year of Admission	: 2022-23

Phone No : 9505021077, 9505021075
 Website: www.viswamengg.com

Viswam Engineering College
 Approved by AICTE, New Delhi & Affiliated To JNTUA, Ananthapuram
 An ISO 9001:2015 Certified Institution
 Angallu, Madanapalle-517325, Annamayya Dist., AP.

MENTOR DIARY

Name : B Mohan kumar
Roll No: RA051A0508 Branch: CSE
Year & Semester: 1 st 1-2 Section: CSE-E
Academic Year : 2022-2023



Day Scholar / Hostler: <small>(Tick Appropriately)</small>	Contact Numbers :
Local Address : Mubatala chavali	1. Personal: 9505761886
Permanent Address	2. Father's: 9505645888
Same as above	3. Mother's: 9505627464
	4. Local Guardian :



VISWAM ENGINEERING COLLEGE
 Madanapalle - 517 325

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
TIME TABLE SCHEDULE
 ACADEMIC YEAR 2023-24 (EVEN SEMESTER)

SEMESTER : II - II
 CLASS & SECTION : II Year A-Section
 CLASS CO-ORDINATOR : Mrs. I. Deepika

BATCH : 2022 - 2026
 Hall NO : B-104
 W.E.F : 27.12.2023

Day/Time	9:20-10:10	10:10-11:00	11:10-12:00	12:00-12:50	1:40-2:35	2:35-3:30	3:30-4:25
Mon	Room No:B104 SE Mr. A. Srinivasan	Room No:B104 OS Mr. G. Prathap	Room No:B104 DTI Dr. R. Vasanthsevakumar	Room No:B104 DBMS Mrs. I. Deepika	Room No:B104 OB Dr. M.Reddi Ramu	Room No:B104 D&SSM Mr. V. Vijaykumar	Room No:B104 MENTORING Mrs. I. Deepika
Tue	Room No:B104 OS Mr. G. Prathap	Room No:B108,110 SE LAB Mr. A. Srinivasan	Room No: B108,110 SE LAB Mr. A. Srinivasan		Room No:B104 SE Mr. A. Srinivasan	Room No:B104 D&SSM Mr. V. Vijaykumar	Room No:B104 OB Dr. M.Reddi Ramu
Wed	Room No:B104 OB Dr. M.Reddi Ramu	Room No: B108,110 DBMS LAB Mrs. I. Deepika	Room No: B108,110 DBMS LAB Mrs. I. Deepika		Room No:B104 OS Mr. G. Prathap	Room No:B104 DBMS Mrs. I. Deepika	Room No:B104 D&SSM Mr. V. Vijaykumar
Thu	Room No:B104 DBMS Mrs. I. Deepika	Room No: B108,110 OS LAB Mr. G. Prathap	Room No: B108,110 OS LAB Mr. G. Prathap		Room No:B104 OS Mr. G. Prathap	Room No:B104 SE Mr. A. Srinivasan	Room No:B104 MENTORING Mr. A. Srinivasan
Fri	Room No:B104 DTI Dr. R. Vasanthsevakumar	Room No: B108,110 EDA with R Mrs. K. Vijayalakshmi	Room No: B108,110 EDA with R Mrs. K. Vijayalakshmi		Room No:B104 SE Mr. A. Srinivasan	Room No:B104 OB Dr. M.Reddi Ramu	Room No:B104 DBMS Mrs. I. Deepika
Sat	Room No:B104 OB Dr. M.Reddi Ramu	Room No:B104 D&SSM Mr. V. Vijaykumar	Room No:B104 OS Mr. G. Prathap	Room No: B104 DBMS Mrs. I. Deepika	Room No:B104 SE Mr. A. Srinivasan	Room No:B104 D&SSM Mr. V. Vijaykumar	Room No:B104 NSS

ACRONOMY	SUB.CODE	SUBJECT NAME	NAME OF THE FACULTY	DESIGNATION	ALMANAC
D&SSM	20A54404	Deterministic & Stochastic Statistical Methods	Mr. V. Vijay Kumar	Associate Professor	Commencement of Class Work : 27-12-2023
DBMS	20A05401 T	Database Management Systems	Mrs. I. Deepika	Assistant Professor	Mid- I Examination Date : 19-02-2024
OS	20A05402 T	Operating Systems	Mr. G. Prathap	Associate Professor	Mid- II Examination Date : 18-04-2024
SE	20A05403 T	Software Engineering	Mr. A. Srinivasan	Associate Professor	Internal Lab Examination Date : 22-04-2024
OB	20A52302	Organizational Behaviour	Dr. M. Reddi Ramu	Associate Professor	External Lab Examination Date : 25-04-2024
DTI	20A99401	Design Thinking for Innovation	Dr. R. Vasanthsevakumar	Associate Professor	
LABS :					
DBMS LAB	20A05401 P	Database Management Systems Lab	Mrs. I. Deepika Ms. B. Monika	Assistant Professor	Commencement of End Semester Examination : 29-04-2024
OS LAB	20A05402 P	Operating Systems Lab	Mr. G. Prathap Mrs. P. Viswanatha Reddy	Associate Professor	Community Service Project : 13-05-2024 to 06-07-2024
SE LAB	20A05403 P	Software Engineering Lab	Mr. A. Srinivasan Dr. R. Vasanthsevakumar	Associate Professor	
EDA with R	20A05404	Exploratory Data Analysis with R	Mrs. K. Vijayalakshmi Dr. V. Hemasree	Assistant Professor Associate Professor	
NSS	20A99301	NSS			
MENTORING		Mr. A. Srinivasan Mrs. I. Deepika			

V. H. H.
TABLE INCHARGE

P. Hemant
HOD

S. Anand
PRINCIPAL

ACADEMIC PROFILE

Marks obtained in each Subject (1 year 1 Semester):

S.NO	NAME OF THE SUBJECT	MID-1			MID-2			AVG	Internal MARKS	EXTERNAL EXAMS		
		D	O	T	D	O	T			MARKS	PASS	FAIL
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
TOTAL MARKS / PERCENTAGE												

NOTE: D=Descriptive, O=Objective, T=Total

Supplementary Exams:

S.NO	NAME OF THE SUBJECT	1 ST ATTEMPT		2 ND ATTEMPT		3 RD ATTEMPT		4 TH ATTEMPT	
		Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail
1									
2									
3									
4									
5									
6									

SUMMARY OF PASSED SUBJECTS:

S.No	No of subjects passed in as on			
	1 st attempt	2 nd attempt	3 rd attempt	4 th attempt

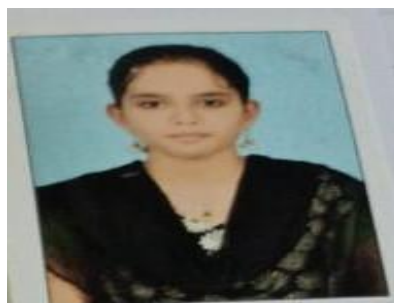
SUMMARY OF BACKLOGS:

S.NO	NO. of Subjects	As on
1		
2		
3		
4		
5		
6		
7		
8		

Impact analysis:

Description:

Ms. G. Nowreen Student of the CSE Branch continuously mentored by Mr. P. Viswanatha Reddy-Faculty Mentor, his observations revealed the impact of the Mentoring System in helping the Mentees to aware of their potential at maximum extent for achieving their goals to be successful in the life.



NAME OF THE MENTEE	ROLL NO	BRANCH	PHONE NO. & MAIL ID
G. Nowreen	19W51A0528	CSE	9542570500 gnowreeng9@gmail.com

Semester Wise Academic performance (FROM BE 1ST SEM TO VIII SEM)



Efficacy of Mentoring System

1. Does Mentoring help first-generation professional students in the families having uneducated parents with rural background?

Ans: Yes, mentoring has helped students to come out successful even without any background.

Ms. G. Nowreen (19W51A0528)

- Her father has no formal education.
- With a strong desire to come up in her life despite difficulties she concentrated on her studies
- With the help of Mentor who inspired him in all the ways, she succeeded in her

every attempt which leads her to be the topper.

Education Level	Percentage of Marks
SSC	9.29
Intermediate	87.46
B. Tech- i semester	8.44
B. Tech ii semester	8.14
B. Tech -iii semester	8.34
B. Tech -iv semester	8
B. Tech- v semester	8
B. Tech vi semester	8.79
B. Tech -vii semester	8.65
B. Tech -viii semester	9.76

Ms. S. Pavithra (19W51A0578)

- All his family members (both the parents) are agricultural labor without any formal education, possessing 5 acres of land based on Rains in a rural area with communication difficulties.
- With a strong desire to come up in his life in spite of difficulties, he concentrated on her studies.
- With the help of Mentor who inspired him in all the ways, he succeeded in his every attempt, which leads him to be the topper.

Education Level	Percentage of Marks
SSC	7.8
Intermediate	9.3
B. Tech- i semester	8.39
B. Tech ii semester	7.39
B. Tech -iii semester	7.58
B. Tech -iv semester	7
B. Tech- v semester	7.81
B. Tech vi semester	6.05
B. Tech -vii semester	8.05
B. Tech -viii semester	9.04

2.Does the mentoring system has a structured mentoring process?

Ans: Yes, a well-defined process for the mentoring has been devised & successfully implemented

9.2 Feedback analysis and reward /corrective measures taken, if any. (10/10)

(Feedback collected for all courses: YES/NO; Specify the feedback collection process; Average percentage of students, who participate, specify the feedback analysis process; Basis of Reward/ Corrective measures, if any; Indices used for measuring quality of Teaching & Learning and summary of the index values for all the courses/ teachers; Number of corrective actions taken)

- ❖ Feedback collected for all courses (YES/NO): **YES**
- ❖ Feedback collection Process: **Offline/Online mode**
- ❖ Percentage of students Participating: Above **85%**

Feedback Collection Process: The feedback on teaching and learning is taken online, twice in a semester, generally the Second week after the commencement of classwork and final week before the end of semester. The dynamic online feedback software is developed by faculty of CSE dept. The link of feedback (<https://forms.gle/UkyeABspLxeKMn1n6>) to be given by the students will be sent through their mobile and their mail id by mentioning the random password generated for each student. They can give feedback on their mobile, computer laboratories or on the website.

The students require to login by giving his/her credentials, the blank format for inputting in the scale of 1 to 5 for each faculty, subject wise appears for 20 parameters. The software is designed in such a way that at least 75% of the class strength gives the feedback in a given slot of 15 to 20 days otherwise it will be extended. The methodology adopted here is very transparent.

A. Methodology followed for analysis of Feedback and its effectiveness:

- The Institute regularly collects the feedback on all the Courses in order to analyze the performance of faculty in every semester.
- The feedback from students will be taken twice in a semester to evaluate the

faculty performance in class room teaching on different parameters on a 5-point scale through offline/online.

- The feedback is analyzed and evaluated on the score of 5 and every faculty is provided with a copy of feedback for making necessary corrections.



VISWAM ENGINEERING COLLEGE

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu.)
 An ISO 9001 : 2015 Certified Institution
 Madanapalle - 517 325, Annamayya Dist., A.P
 www.viswamengg.in

STUDENTS FEEDBACK FORM

Year & Sem: 1/1

· To be filled by the students for teachers’ evaluation. This will help teachers to improve his/her skills

· Rate each item by points according to your assessment of teacher’s performance on the five-point scale given below

· **Excellent- 05, Very Good-04, Good-03, Fair-02, Poor-01**

1. Preparation:

Parameters	CE	CH	LA	BC&	IP	CE	C	C	
	23A5	E	&C	ME	23	LA	H	P	
	2201	23	23	23A0	A0	B	E	L	EW
	T	A5	A5	1201	51	23A	L	A	S
		12	41	T	01	522	A	B	23
		02	01		T	01P	B	2	A0
		T					2	3	32
							3	A	01
							A	0	
							5	5	

							1 2 0 2 P	1 0 1 P	
a. Teacher comes to class in time	4.25	4.8 6	3.8 5	3.28	3.2 9	4.2 8	4. 27	4. 89	4.2 8
b. Teaching is well planned	4.56	4.3 8	3.2 6	3.29	3.2 7	4.2 8	4. 38	4. 58	4.2 8
c. Aims/objectives made clear	4.86	4.2 8	3.8 6	3.27	3.2 8	4.2 9	4. 27	4. 57	4.2 3
d. Subject matter organized in logical sequence	4.12	4.2 9	3.2 7	3.28	3.4 7	4.3 8	4. 38	4. 57	4.2 1
e. Teacher comes well prepared in the subject	4.15	4.2 7	3.2 4	3.27	4.2 8	4.3 7	4. 27	4. 56	4.2 8
TOTAL	4.38	4.4 1	3.4 9	3.27	3.5 1	4.3 2	4. 31	4. 63	4.2 5

2. Presentation & Communication:

Parameters	CE 23A5 2201 T	CH E 23 A5 12 02 T	LA &C 23 A5 41 01	BC& ME 23A0 1201 T	IP 23 A0 51 01 T	CE LA B 23A 522 01P	C H E L A B 2 3 A 5 1 2 0 2 P	C P L A B 2 3 A 0 5 1 0 1 P	EW S 23 A0 32 01
a. Teacher speaks clearly & audibly	4.86	4.38	3.26	3.29	3.27	4.78	4.38	3.19	3.27
b. Teaching writes & draws legibly	4.16	4.68	3.76	3.27	3.78	4.19	4.47	3.67	3.28
c. Teachers provide examples of concepts / principles	4.12	4.39	3.77	3.28	3.97	4.78	4.38	3.88	3.77
d. Teacher's pace & level of instructions suitable	4.85	4.87	3.24	3.97	4.28	4.37	4.17	3.57	4.28
e. Teachers offers assistance & counseling	4.25	4.76	3.75	3.78	3.39	4.38	4.27	3.98	3.29

to the ready students									
TOTAL	4.44	4.6 1	3.5 5	3.51	3.7 3	4.5 0	4. 33	3. 65	3.5 7

3.Student's participation:

Parameters	CE 23A5 2201 T	CH E 23 A5 12 02 T	LA &C 23 A5 41 01	BC& ME 23A0 1201 T	IP 23 A0 51 01 T	CE LA B 23A 522 01P	C H E L A B 2 3 A 5 1 2 0 2 P	C P L A B 2 3 A 0 5 1 0 1 P	EW S 23 A0 32 01
a. Teacher asks questions to promote interaction & reflective thinking	4.47	3.6 7	3.2 8	3.29	3.2 7	4.7 8	4. 38	3. 19	3.2 7

b. Teacher encourages questioning / raising doubts by the students & answers them well	3.67	3.2 8	3.2 7	3.27	3.7 8	4.1 9	4. 47	3. 67	3.2 8
c. Teachers ensures learner activity and problem-solving activity displayed by the students	3.88	3.4 7	3.2 8	3.28	3.9 7	4.7 8	4. 38	3. 88	3.4 7
d. Teacher encourages compliments & praises originality and creativity displayed by the students	3.57	4.2 8	3.2 7	3.97	4.2 8	4.3 7	4. 17	3. 57	4.2 8
e. Teacher is courteous & impartial in dealing with the students	3.98	3.2 9	3.2 8	3.78	3.3 9	4.3 8	4. 27	3. 98	3.2 9
TOTAL	3.91	3.5 9	3.2 7	3.51	3.7 3	4.5 0	4. 33	3. 65	3.5 1

4. Class Management /

Assessment of Students:

Parameters	CE 23A5	CH E	LA &C	BC& ME	IP 23	CE LA	C H	C P	EW S
------------	------------	---------	----------	-----------	----------	----------	--------	--------	---------

	2201 T	23 A5 12 02 T	23 A5 41 01	23A0 1201 T	A0 51 01 T	B 23A 522 01P	E L A B 2 3 A 5 1 2 0 2 P	L A B 2 3 A 0 5 1 0 1 P	23 A0 32 01
a. Teacher engages classes regularly & maintains discipline	4.47	3.6 7	3.2 8	4.47	3.6 7	3.2 8	3. 28	3. 27	3.1 7
b. Teaching covers the syllabus & at appropriate pace	4.57	3.2 7	3.8 8	4.97	3.4 7	3.2 7	3. 47	3. 28	3.2 8
c. Teacher holds tests regularly which are helpful to students in building up confidence in their & application of knowledge	4.17	3.9 7	3.2 8	4.07	3.6 7	3.2 8	4. 28	3. 27	3.9 7
d. Teachers marking of answer scripts is fair &	4.78	4.3 8	3.9 8	3.47	3.2 8	4.7 8	4. 38	3. 88	3.4 7

impartial									
e. Teacher is prompt in valuating & returning the answer scripts & providing feedback on performance	4.37	4.1 7	3.5 7	4.28	3.2 7	4.3 7	4. 17	3. 57	4.2 8
TOTAL	4.47	3.8 9	3.5 9	4.25	3.4 7	3.7 9	3. 91	3. 45	3.6 3

Total Score (Out of 100)	4.3	4.1	3.4	3.63	3.6 1	4.2 2	4. 22	3. 85	3.7 4
---------------------------------	-----	-----	-----	------	----------	----------	----------	----------	----------

Fig.9.2.1(A) Proforma for Student Feedback



Viswam Engineering College

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu
Accredited by NAAC with A Grade
Recognized under 2(f) UGC ACT- An ISO 9001:2015 Certified Institution
Angallu, Madanapalle-517325, Annamayya Dist., A. P

DEPARTMENT OF CSE-A

STUDENTS FEEDBACK FORM

Year & Sem I & I

- To be filled by the students for teaching evaluation by the students. This will help teachers to improve his/her skills
- Rate each item by points according to your assessment of teachers performance on the five point scale given below
- Excellent-05 , Very Good-04, Good-03, Fair-02, Poor-01

1.Preparation:

Parameters	CE	CHE	LA&C	BC&ME	IP	CE Lab	CHE Lab	CP Lab	EWS
a. Teacher comes to class in time	05	05	05	05	05	05	05	05	05
b. Teaching is well planned	05	05	05	05	05	05	05	05	05
c. Aims/objectives made clear	05	05	05	05	05	05	05	05	05
d. Subject matter organized in logical sequence	05	04	05	04	04	05	05	05	05
e. Teacher comes well prepared in the subject	05	05	05	04	04	05	05	04	05
TOTAL	25	24	25	23	23	25	25	24	25

2. Presentation & Communication :

Parameters	CE	CHE	LA&C	BC&ME	IP	CE Lab	CHE Lab	CP Lab	EWS
a. Teacher speaks clearly & audibly	05	05	05	05	04	05	05	05	05
b. Teaching writes & draws legibly	05	05	05	05	05	05	05	05	05
c. Teachers provide examples of concepts / princ.	04	04	05	05	04	05	04	04	05
d. Teacher's pace & level of instructions suitable	05	05	05	05	05	05	05	05	05
e. Teacher offers assistance & counseling to the ready students	05	05	05	05	04	05	05	05	05
TOTAL	24	24	25	25	22	25	24	24	25

3.Student's participation :

Parameters	CE	CHE	LA&C	BC&ME	IP	CE Lab	CHE Lab	CP Lab	EWS
a. Teacher asks questions to promote interaction & reflective thinking	05	05	05	05	05	05	05	05	05
b. Teacher encourages questioning / raising doubts by the students & answers them well	05	05	05	05	05	05	05	05	05
c. Teachers ensures learner activity and problem solving activity displayed by the students	04	04	04	03	03	04	04	04	04
d. Teacher encourages compliments & praises originality and creativity displayed by the students	05	05	05	05	05	05	05	05	05
e. Teacher is courteous & impartial in dealing with the students	05	05	05	05	05	05	05	05	05
TOTAL	24	24	24	23	23	24	24	24	24

4.Class Management / Assessment of Students:

Parameters	CE	CHE	LA&C	BC&ME	IP	CE Lab	CHE Lab	CP Lab	EWS
a. Teacher engages classes regularly & maintains discipline	05	05	05	05	04	05	05	05	05
b. Teaching covers the syllabus & at appropriate pace	05	05	05	04	04	05	05	05	05
c. Teacher holds tests regularly which are helpful to students in building up confidence in their & application of knowledge	05	05	05	05	05	05	05	05	05
d. Teachers marking of answer scripts is fair & impartial	05	04	05	05	05	05	05	05	05
e. Teacher is prompt in valuating & returning the answer scripts & providing feedback on performance	05	05	05	05	05	05	05	05	05
TOTAL	25	24	25	24	23	25	25	25	25

Total Score (Out of 100)	298	96	99	95	91	99	98	97	99
Comments on HOD	She maintains very disciplinarily and strictly it was good								
Comments on Principal	he supports to students very good								
suggestions/ inputs to improve the campus	If you see to all in dress code then select								

Following is the rubric for corrective measures:

Average feedback range	Action
Less than 3.0	Explanation is sought and advised to improve
Between 3.1 to 4.5	No action, advised to improve in specified weak parameters

B. Record of Corrective Measures Taken:

Feedback Corrective Measures are being followed:

- HOD speaks to the concerned faculty to appreciate or suggest necessary improvements in teaching.
- The staff members who got above 90% are appreciated for their excellent efforts.
- The staff members who got above 70 % to 89% are appreciated for their good efforts.
- Staff members who get average feedback below 60% are identified.
- Those staff members are given orientation lectures and special inputs by the Head of the department and are also sent to attend FDP or workshops on teaching methodologies or technical concepts.
- The following are the number of corrective actions taken on the faculty over the past 3 years.

Table 9.2.1 Corrective Measures Taken on Faculty

Academic year	No. of Corrective Actions taken
2021-22	3
2020-21	1
2019-20	4

Basis of reward/Corrective measures:

- If the average feedback is between 3.1 to 4.5, HODs will inform the faculty about the weak parameters for improvement.

3/13/2021

B Jyothsna .png



3/13/2021

B Jyothsna .png



hos://mail.google.com/...

search/online+iot7or...



B.M.S COLLEGE FOR WOMEN

NAAC ACCREDITED 'A' GRADE COLLEGE, Affiliated to Bengaluru Central University
 Basavanagudi, Bengaluru - 04



**NATIONAL LEVEL
 FACULTY DEVELOPMENT PROGRAMME
 ON
 PHP and MySQL**

CERTIFICATE OF PARTICIPATION

This is to certify that **Mr. P.VISWANATHA REDDY** of Sir Vishwaraiah Institute of Science & Technology, has actively participated in Five Day National Level Online Faculty Development Programme(OFPD) on PHP and MySQL held from June 17 - June 21, 2020 organised by Department of Computer Science, B.M.S College for Women in association with Spoken Tutorial, HT Bombay [NMEICT, MHRD, Govt. of India].

Priyanka Shroff
Ms. Priyanka Shroff
 HTB-ST Training Manager

Natani J.
Mrs. Natani J.
 Convener & HOD

Bhavana Ashok
Mrs. Bhavana Ashok
 Coordinator

N. Nanda
Dr. N Nanda
 Principal



9.3 Feedback on facilities (5/5)

Assessment is based on student feedback collection, analysis, and corrective action taken.

A. Feedback Collection Process:

- The institute regularly collects feedback on the various facilities offered to the students.
- Feedback is also collected from employers, parents, alumni, faculty, and hostlers and the analysis of the feedback is done to carry out any corrective measures.
- The feedback is collected through a well-defined feedback form from different stakeholders of the college.
- The following is the format through which feedback is collected about the facilities of the college.



Viswam Engineering College

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu
Accredited by NAAC with A-Grade
An ISO 9001:2015 Certified Institution
Angallu, Madanapalle-517325, Annamayya Dist., A. P

Department of computer science & engineering

FEEDBACK-STUDENTS

A) Please provide your comments on the following

1. college infrastructure : Excellent Very Good Good
 Average
2. Departmental Resources : Excellent Very Good Good
 Average
3. Faculty helpfulness : Excellent Very Good Good
Good Average
4. Library facilities : Excellent Very Good Good
Good Average
5. computing and internet facilities : Excellent Very Good Good
 Average
6. Sports, Extra-Curricular facilities : Excellent Very Good Good
 Average
7. Personality/ Communication Skills : Excellent Very Good Good
 Average
8. Placement training : Excellent Very Good Good
 Average
9. Transport Facilities : Excellent Very Good Good
Good Average

10. Mess/Canteen Facilities : Excellent Very Good Good
 Average

11. Discipline Standards in the college : Excellent Very Good Good
 Average

12. overall rating of the college : Excellent Very Good Good
 Average

B) your positive/negative comments:

c) Your suggestions for the improvement of the institution:

HOD



Viswam Engineering College

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu
 Accredited by NAAC with A Grade
 An ISO 9001:2015 Certified Institution
 Angallo, Madanapalle-517325, Annamayya Dist., A. P

Department of computer science & engineering

FEEDBACK-STUDENTS

A) Please provide your comments on the following

1.college infrastructure	:	Excellent	Very Good	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Average
2.Departmental Resources	:	Excellent	Very Good	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Average
3.Faculty helpfulness	:	Excellent	<input checked="" type="checkbox"/> Very Good	<input type="checkbox"/> Good	<input type="checkbox"/> Average
4.Library facilities	:	Excellent	<input checked="" type="checkbox"/> Very Good	<input type="checkbox"/> Good	<input type="checkbox"/> Average
5.computing and internet facilities	:	Excellent	Very Good	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Average
6.Sports, Extra Curricular facilities	:	Excellent	Very Good	<input type="checkbox"/> Good	<input checked="" type="checkbox"/> Average
7.Personality/ Communication Skills	:	Excellent	Very Good	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Average
8.Placement training	:	Excellent	Very Good	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Average
9.Transport Facilities	:	Excellent	<input checked="" type="checkbox"/> Very Good	<input type="checkbox"/> Good	<input type="checkbox"/> Average
10.Mess/Canteen Facilities	:	<input checked="" type="checkbox"/> Excellent	<input type="checkbox"/> Very Good	<input type="checkbox"/> Good	<input type="checkbox"/> Average
11.Discipline Standards in the college	:	Excellent	Very Good	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Average
12.overall rating of the college	:	Excellent	<input type="checkbox"/> Very Good	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Average

B) your positive/negative comments:

* well infrastrucure
 * transport facilities

c) Your suggestions for the improvement of the institution:

* provide sports facility
 * department wise suggestion boxes provide

[Signature]
 HOD

Fig.9.3.1(A) Proforma for Student Feedback on Facilities



Viswam Engineering College

Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuram
Accredited by NAAC with A Grade
An ISO 9001:2015 Certified Institution
Angalla, Madanapalle 517325, Annamayya Dist., A. P

Department of computer science & engineering

FEEDBACK-STUDENTS

A) Please provide your comments on the following

1.college infrastructure	:	✓Excellent	Very Good	Good	Average
2.Departmental Resources	:	Excellent	✓Very Good	Good	Average
3.Faculty helpfulness	:	Excellent	Very Good	✓Good	Average
4.Library facilities	:	Excellent	Very Good	✓Good	Average
5.computing and internet facilities	:	Excellent	Very Good	✓Good	Average
6.Sports, Extra Curricular facilities	:	Excellent	Very Good	✓Good	Average
7.Personality/ Communication Skills	:	Excellent	✓Very Good	Good	Average
8.Placement training	:	Excellent	✓Very Good	Good	Average
9.Transport Facilities	:	Excellent	✓Very Good	Good	Average
10.Mess/Canteen Facilities	:	Excellent	Very Good	✓Good	Average
11.Discipline Standards in the college	:	Excellent	✓Very Good	Good	Average
12.overall rating of the college	:	Excellent	✓Very Good	Good	Average

B) your positive/negative comments:

conducting sports nicely weekly once.

c) Your suggestions for the improvement of the institution:

[Signature]
HOD

Fig.9.3.1 (B) Proforma for Student Feedback on Facilities



Department of computer science & engineering

FEEDBACK-STUDENTS

A) Please provide your comments on the following

1.college infrastructure	:	Excellent	✓Very Good	Good	Average
2.Departmental Resources	:	Excellent	Very Good	✓Good	Average
3.Faculty helpfulness	:	Excellent	Very Good	✓Good	Average
4.Library facilities	:	Excellent	Very Good	Good	✓Average
5.computing and internet facilities	:	Excellent	✓Very Good	Good	Average
6.Sports, Extra Curricular facilities	:	Excellent	Very Good	✓Good	Average
7.Personality/ Communication Skills	:	Excellent	✓Very Good	Good	Average
8.Placement training	:	Excellent	Very Good	✓Good	Average
9.Transport Facilities	:	Excellent	Very Good	✓Good	Average
10.Mess/Canteen Facilities	:	Excellent	Very Good	Good	✓Average
11.Discipline Standards in the college	:	Excellent	✓Very Good	Good	Average
12.overall rating of the college	:	Excellent	Very Good	✓Good	Average

B) your positive/negative comments:

canteen food needs to improve.

c) Your suggestions for the improvement of the institution:

R. Kumar
HOD

Fig.9.3.1 (C) Proforma for Student Feedback on Facilities



Department of computer science & engineering

FEEDBACK-STUDENTS

A) Please provide your comments on the following

1.college infrastructure	:	Excellent	✓ Very Good	Good	Average
2.Departmental Resources	:	Excellent	Very Good	✓ Good	Average
3.Faculty helpfulness	:	Excellent	Very Good	✓ Good	Average
4.Library facilities	:	Excellent	Very Good	✓ Good	Average
5.computing and internet facilities	:	Excellent	Very Good	✓ Good	Average
6.Sports, Extra Curricular facilities	:	Excellent	Very Good	✓ Good	Average
7.Personality/ Communication Skills	:	Excellent	✓ Very Good	Good	Average
8.Placement training	:	Excellent	Very Good	✓ Good	Average
9.Transport Facilities	:	Excellent	✓ Very Good	Good	Average
10.Mess/Canteen Facilities	:	Excellent	Very Good	✓ Good	Average
11.Discipline Standards in the college	:	Excellent	✓ Very Good	Good	Average
12.overall rating of the college	:	Excellent	✓ Very Good	Good	Average

B) your positive/negative comments:

Canteen food is good, compared to previous months

c) Your suggestions for the improvement of the institution:

P. Senthil
HOD

Fig.9.3.1 (D) Proforma for Student Feedback on Facilities

Feedback Analysis and Action Taken:

- Based on the suggestions and feedback given by the stakeholders, the Head of Department summarizes the feedback and submits a consolidated report to the principal who in turn discusses with the Management to solve the problems.
- Then the principal sends the feedback to necessary committees to take necessary actions to solve the problems addressed by the students.

Action Taken based on the three assessment years:

- Two RO water plants are installed
- The gym facility is upgraded
- Basketball court developed
- Air conditioners are installed in all computer laboratories.
- A qualified Physical Director is appointed
- Tech fests/College Day celebrations are organized regularly
- Students are nominated to various committees at the college level Student developments are organized regularly.

9.4 Self-Learning (5/5)

The institution needs to specify the facilities, materials, and scope for self-learning/ learning beyond the syllabus, Webinars, Podcast, MOOCs, etc. and evaluate their effectiveness.

A. Scope for Self-Learning:

- The Institute strongly believes in providing various self-learning facilities to the student community, through which the subject can be induced in a better manner. The following are the various facilities offered by the institute for self-learning

1. Tutorial Classes.
2. Department library.
3. Computer center.
4. Department Technical Associations.
5. Digital Library consisting of Various E-journals including IEEE Journals.
6. Internal Seminars.

7. NPTEL video courses (National Programme Technical Enhanced Learning).

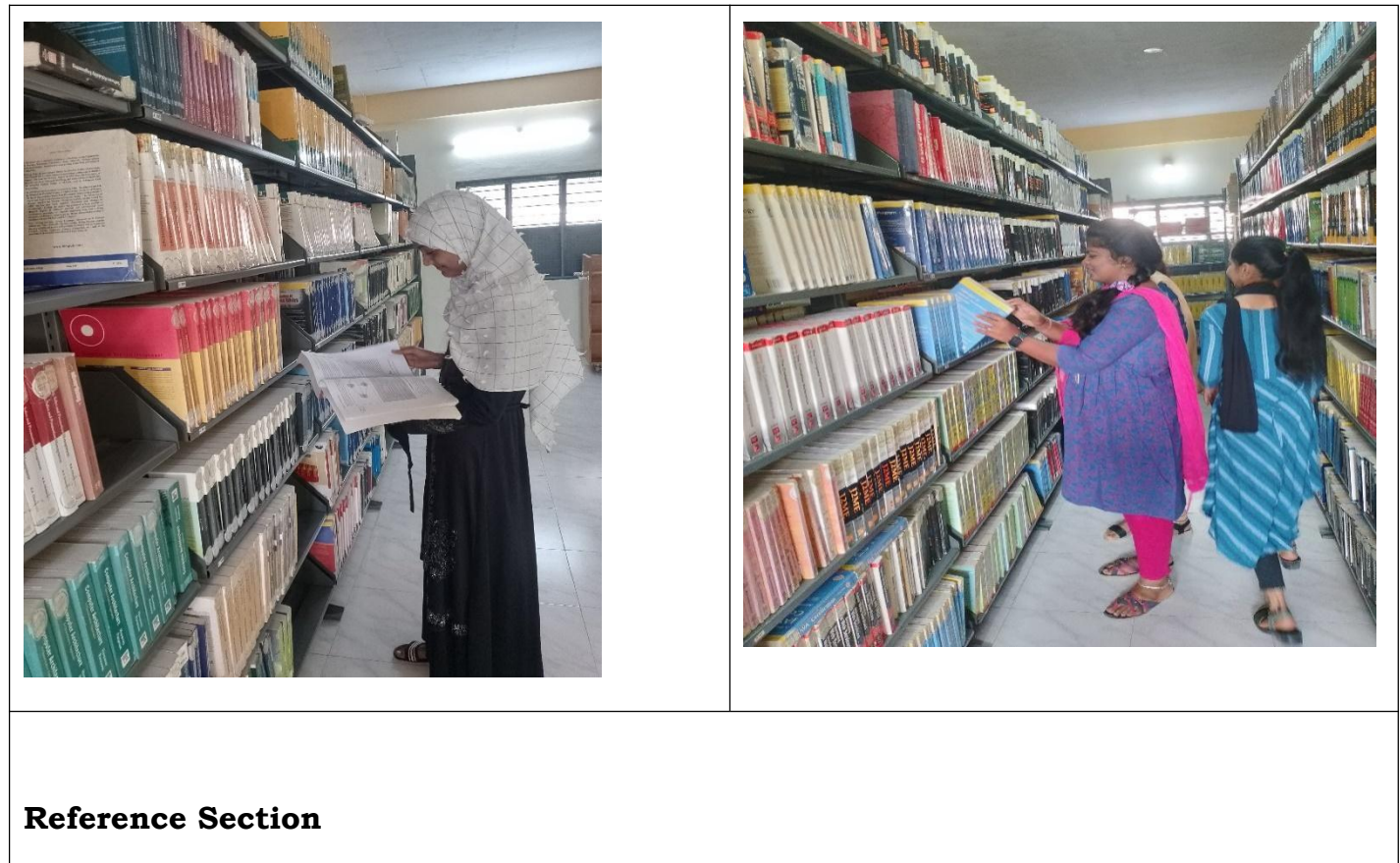
B. Effective Utilization of Self Learning facilities:

- The library is accessible to students from 9:00 A.M to 6:00 P.M for use. The collection comprises textbooks, general reference material, etc.
- Department library with a sufficient number of volumes on core and application areas, technical journals are available during college hours.
- Computer Lab with well-equipped and internet facility is open for students up to 6.00 pm.
- The entire College is provided with Wi-Fi facility, so that the students can access the internet at all points of the college.
- The students are also encouraged to participate in internal seminars organized by the department.
- Communication skills classes are being arranged every week and students are motivated to take active participation in Group discussions, debate and similar language activities.
- NPTEL videos are also regularly used in classes, in order to upgrade their technical knowledge on various courses.

Library facilities	
Carpet area of library	205 Sq. m
Reading space	100 Sq. m
Area of stack	105 Sq. m
Digital library	20.2 Sq. m

Reference section	30.20
Discussion room	10.2 Sq. m
No. of seats in reading space	90
No. of users (issue books)	150
No. of users (reading space)	120
Timings:	9.10am-4.30pm
No. of library staff	2

Fig: 9.4.1 E-Learning

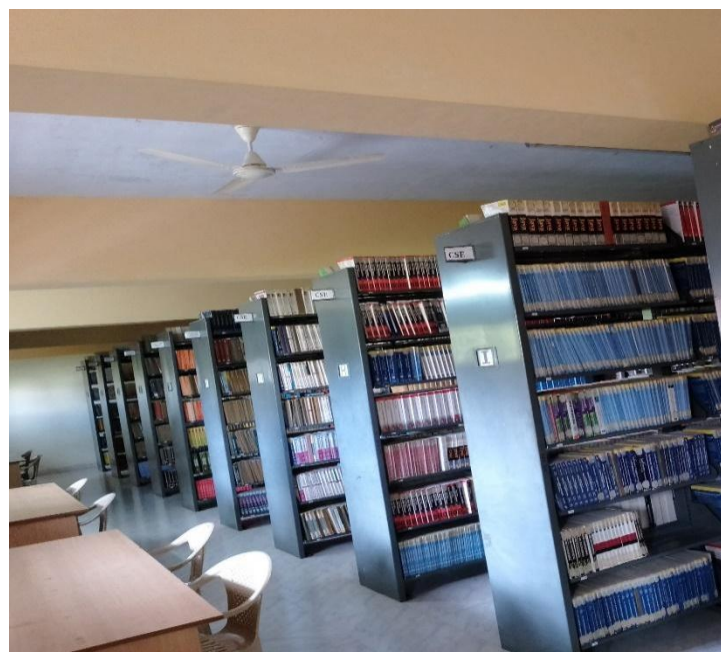




Stack Area



Reading Section



Periodical section



Journal Section

	
Circulation Section	Digital Library

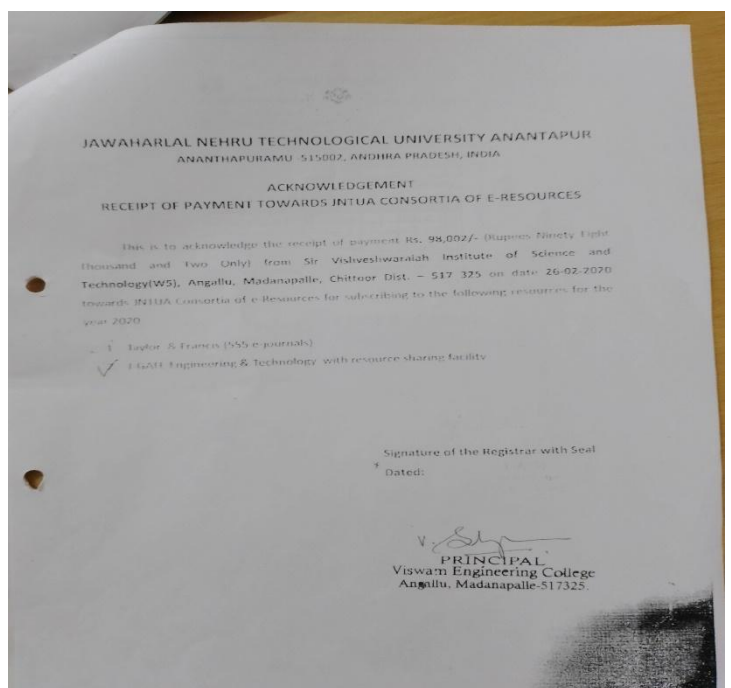
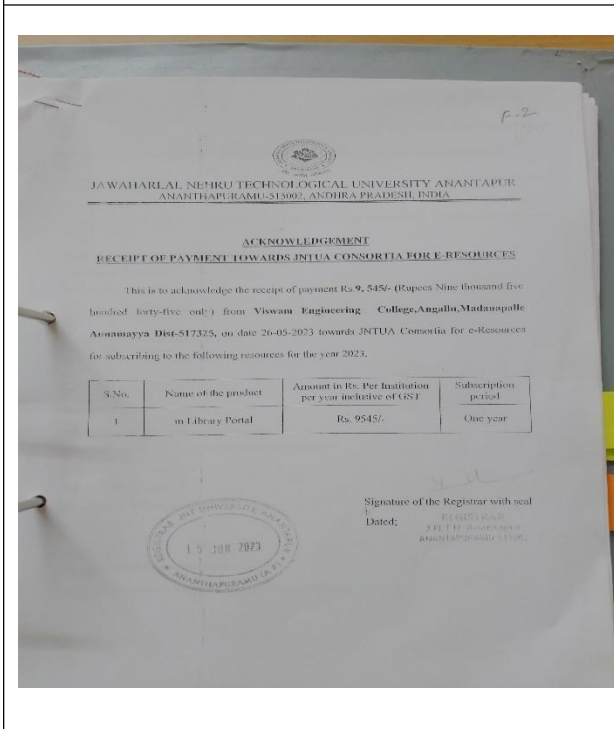
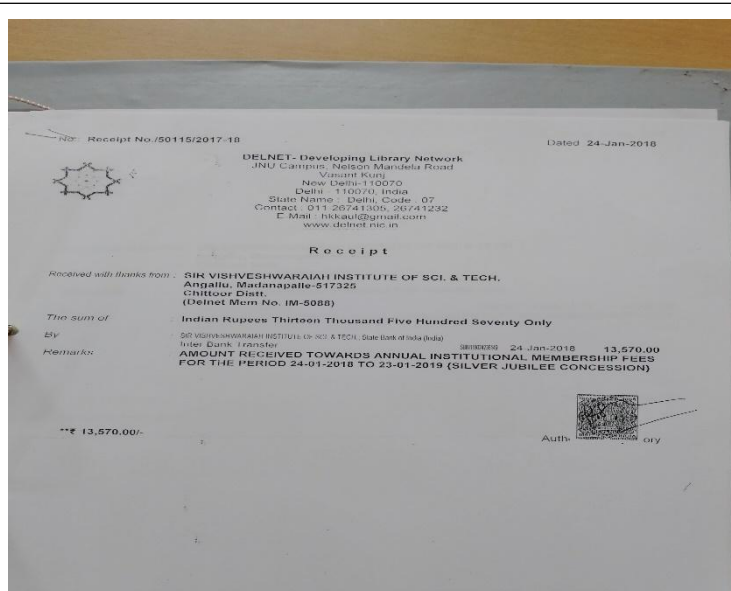
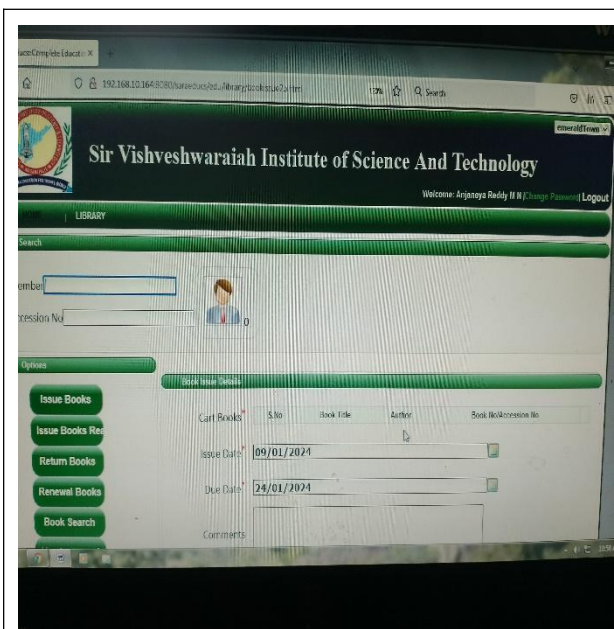
Scope of self-learning:

- Library facility
- Digital library with internet facility
- E- Learning: e- Resources
- Web based learning i. e (NPTEL, SWAYAM etc.)
- Professional bodies
- Seminars, workshops and hackathon
- Industrial visits
- Assignment

II. Detailed list of Self – Learning facilities:		
s. no	Self-learning process	Description
1	Library Facility	The college library is enriched with vast collection of books, journals, periodicals, and research articles. College is having automated library management system to take care about book issue and return process (SARA). Library is also equipped with rare books, manuscripts, Project reports and back volumes etc.
2	Digital Library with internet facility	College is providing students a digital library equipped with 20 systems and also provided with internet facility.
3.	E-learning: e-resources	E-resources allow learners to enjoy a self-paced learning. They can study according to their own time, being easier to incorporate learning. College is providing faculty and students to have access to the following e-resources i. e. DELNET, J-GATE.

4	Web based learning	The internet is an open information system in which various sources of information, media and materials such as texts, images, video sequences can be linked together in diverse ways to form so-called self-learning environment.
5	Professional bodies	Joining a professional association will be one of the most important activities in a student's career. To increase knowledge in their own fields, expand networking possibilities or jump-start to job hunt, a professional association membership is an option, which is worth exploring.
6	Seminars, workshops and hackathon	A seminar is group meeting led by an expert that focuses on specific topic or discipline such as emerging technologies, job searches or a literature-based field. Benefits to a student like improving communication skills, gaining expert knowledge, networking with others and renewing motivation and confidence.

7	Industrial visits	<ul style="list-style-type: none">• Industrial visit is a part of college curriculum during which students visit companies and get insight regarding the internal working environment of a company.• It helps students to gain first-hand information regarding functioning of the industry.• It provides an opportunity to plan, organize and engage in active learning experiences both inside and outside classroom.• Provides an awareness and importance of industry in the real working world.
---	-------------------	---





VISWAM ENGINEERING COLLEGE

(Formerly Sir Vishveshwaraiah Institute of Science & Technology)

Madanapalle – 517 325

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NPTEL COURSE ACADEMIC YEAR 2022-23

S. No	NAME OF THE STUDENT	NAME OF THE COURSE	DURATION
1	CHALLA HEMA	FOUNDATION OF CLOUD IOT EDGE ML	8 WEEKS
2	K PALLAVI	FOUNDATION OF CL LOUD IOT EDGE ML	8 WEEKS
3	R ANITHA	FOUNDATION OF CLOUD IOT EDGE ML	8 WEEKS
4	CHERUVU AYESHA	DATA BASE MANAGEMENT SYSTEM	8 WEEKS
5	YALAMAKURU VENKATA CHARAN	PYTHON FOR DATA SCIENCE	4 WEEKS
6	TARIGONDA SHAIK SANIYA	CLOUD COMPUTING AND DISTRIBUTED SYSTEMS	8 WEEKS
7	KUTAGOLLA MEHATAJ	CLOUD COMPUTING AND DISTRIBUTED SYSTEMS	8 WEEKS

8	C ASMA	PYTHON FOR DATA SCIENCE	4 WEEKS
9	G MADHUMATHI	PYTHON FOR DATA SCIENCE	4 WEEKS
10	V KALPANA	PYTHON FOR DATA SCIENCE	4 WEEKS
11	T SUSMITHA	PYTHON FOR DATA SCIENCE	4 WEEKS
12	CHETHANA	FOUNDATION OF CLOUD IOT EDGE ML	8 WEEKS
13	BONALA SHABREEN TAJ	PYTHON FOR DATA SCIENCE	4 WEEKS
14	MURIKINATI VEENA	PYTHON FOR DATA SCIENCE	4 WEEKS
15	SHAIK SONY	PYTHON FOR DATA SCIENCE	4 WEEKS
16	BANDEVANDLA TARUN	PYTHON FOR DATA SCIENCE	4 WEEKS
17	HASANAPURAM FAREEHA	PYTHON FOR DATA SCIENCE	4 WEEKS
18	ROYELPET SHABRIN	SOFTWARE TESTING	4 WEEKS
19	PANDILLAPALLI NARENDRA	SOFTWARE TESTING	4 WEEKS

20	SHAIK MEHATAJ	PYTHON FOR DATA SCIENCE	4 WEEKS
21	NADIMPALLI BHARGAV	PROGRAMMING IN JAVA	12 WEEKS

HOD-CSE

Utilization and its effectiveness:

- The overall aim of this review is to evaluate the effectiveness of self-directed learning on the professional development of students.
- Students are motivated to improve their motivation in reaching their goals through self-learning, not depending on the traditional method of teaching.
- Students are encouraged to learn by themselves to meet the needs of fast-growing world.
- Students are able to do better in competitive exams and get placed in suitable companies

9.5 Career Guidance, Training, Placement (10/10)

The institution may specify the facility, its management and its effectiveness for career guidance including counseling for higher studies, campus placement support, industry interaction for training/ internship/ placement etc.

Training, Placements & Career Guidance Cell:**Vision**

1. To develop national and international links with the business organizations to be able to create meaningful relationship & opportunities for the placement of the students in the global job markets.
2. To develop students who are globally employable & ready hands to the industry.

Mission

To provide effective training to enhance our student's technical, problem solving and inter-personal skills and to provide them 100% placement through dedication, enthusiasm, commitment and complete involvement.

Functions of the Cell:

F01: To **develop** the employability skills of the students through skill training Student Development Programs

F02: To **motivate** the students to actively participate in all skill development training programs and also to attend campus recruitment drives

F03: To **organize** campus recruitment drives by inviting the companies as per their requirements and eligibility criteria of the students

F04: To **make** a platform for the students to explore various campus recruitment opportunities through Assessment portals

F05: To **create** awareness among students about the requirements for foreign education.

Functions – PO Mapping

P/F	PO6	PO7	PO8	PO9	PO10	PO11	PO12
F01	3	2	3	3	3	2	2
F02	3	2	3	3	3	2	2
F03	3	2	3	3	3		2
F04	1	2	1	2	2	1	1
F05	-	-	-	-	2	1	1

Facilities of the Cell:

- ✓ Training & Placement Dept Room (10 x 15) located at ground floor.
- ✓ Basic furniture: System Table, locker, Chair, Visitors chairs
- ✓ Desktop PC with Printer
- ✓ Internet (mbps: 87.2/ 92.85)

A. Committee Composition

The Cell is chaired by the Principal, Dean, and Coordinator along with nominated faculty members and students from all programs offered by the college.

B. Committee Members: The college has constituted the following committee to assist the Training & Placement cell (TPC) for the smooth conduct of Training & Placement activities.

S.no	Role	Name	Department
1	Chairperson	1 Dr. D. Ramana Reddy	Principal
1.	Coordinator	1. Mr. K. Kedar. Gawrav	TPO
2.	Member	Dr. R. Vasanth Selva Kumar	CSE
3.	Member	Dr. B. D. Venkataramana Reddy	Dean
4.	Faculty Member	1. Mrs. Y. Jyothsna	CSE
		2. Mr. R. Raj Kumar	CE
		3. Mr. J. Maheswara Reddy	ECE
		4. Mr. S. Anil	ME
		5 Mr. G. Anasuya	EEE
		6. Mrs. Vijayalakshmi	MBA
5.	Student Members	1. 20W51A0305 - SHAIK ADIL	ME
		2. 20W51A0101-C. Shakheer Ahamed	CE
		3. 20W51A0489-SAI NISHWANTH	ECE
		4. 20W55A0203 - P. MOHAMMAD THAREK	EEE
		5. 20W51A0590- S SRAVANTH	CSE

		6.	22W51E0016 BHANUPRASAD	- B MBA

Roles & Responsibilities of the Committee Members:

A. Role of the Coordinator:

1. Identify the companies, which can come to Viswam Engineering College campus for freshers hiring as per the available Branches in the college.
2. Discuss with respective companies regarding conducting the recruitment event in the college, get their approval and schedule the event at a mutually convenient data/ time.
3. Do the planning for the event management, budget & infrastructure requirements, and take the approvals from relevant authorities.
4. Do the inter-departmental communication through the Placement Coordinators & Student coordinators about all the training & placements activities.
5. Serve as a spokesperson for the committee in all purposes.
6. Represent the committee and the college in matters involving the relevant Association.
7. To perform any other related duty assigned by the principal of the institution.

B. Role of the Faculty Member:

1. Act as the Placement coordinator of the respective branch.
2. Will serve as the SPOC of the said department for Training ang Program cell.

3. Will communicate all necessary information from TPC about its events/ activities to the said department and its students.
4. Will provide required data from the department he/she is representing.
5. Will help the Training and Placement cell in conducting and implementing various Training & Placement activities
6. Will maintain relevant department records & data as per the activities of the Cell.

C. Role of the Student Member:

1. He/She will be the Student Representative from the respective Branch.
2. Act as a Student Coordinator from his/ her Branch for TPC.
3. Will interact with students of his/ her class and serve as a communication link between TPC and the said Branch.
4. Will coordinate with the Faculty Member of his/ her department on a regular basis about the events & activities of the TPC.
5. Will act as a volunteer and help the TPC in organizing various events/ activities.

D. Availability of Career Guidance Facilities:

- A full-fledged state of the art Training and Placement cell actively works and arranges on-campus placements and training to the students.
- The Training and Placement cell of the Institute imparts the requirements of the industry along with their curriculum through programs on preparation of resume, soft skills, communication skills, interview skills, and adapting to the corporate life.
- The Training and Placement cell also helps for students in choosing their Career by organizing various Career Guidance Programs.

- The Training and Placement Cell is headed by full-fledged Training and Placement Officer, Mr. K. Kedar Gawrav, who continuously takes care of all the training activities to be provided to the students.

E. Counseling for Higher Studies (Competitive exams / CIVIL Services, Opportunities in Abroad, etc.):

- The TPC organized various programs related to
 - Providing awareness on higher education as well as research programs.
 - Conducting awareness programs on Civil services and Competitive exams.
 - Providing information about notifications of admissions for higher studies at various Universities/ Institutions at India as well as abroad.
- The following are the various activities conducted by the Training and Placement cell for the benefit of students.

Table.9.5.2 List of Career Guidance Programs Organized

S. No.	Event Name	Resource Person	Targeted Audience	Date
2022-23				
1.	How to prepare for Civils	Mr. Jagadeesh	Final year students	15-09-2022
2.	Carrier opportunities for B. Tech Students	Mr. B.Raja	Final year students	09-11-2022
3.	Civil Services Examinations	Mr. M. Satish	III, IV Year & MBA Students	30-11-2022

4.	Orientation Program on Competitive exams	Mr. Munikumar	B. Tech & MBA Students	26-12-2022
5.	Career opportunities in Abroad	Mrs. Lavanya	B. Tech & MBA Students	27-02-2023
6.	Opportunities for B. Tech Students in Management Sector	Mr. Karthik	B. Tech & MBA Students	19-03-2023
2021-2022				
9.	Technical-Interviews	Mrs. Pratushya	B. Tech & MBA Students	10-09-2021
10.	CAT (Common Aptitude Test)	Mr. Haswanth	B. Tech & MBA Students	20-11-2021
11.	Accounting Package for Engineering graduates	Mr. Balaji	B. Tech & MBA Students	15-12-2021
12.	Opportunities for B. Tech graduates in management sector	Mr. Krishna	B. Tech & MBA Students	02-01-2022

13.	Career opportunities in Abroad	Mr.Vinay	B. Tech & MBA Students	12-03-2022
14.	Role of Body Language in Interviews	Mrs.Sofia	B. Tech & MBA Students	25-05-2022
2020-2021				
16.	Career Counselling in IT Industry	Mr. Sandeep	B. Tech & MBA Students	20-08-2020
17.	Career Readiness program	Mr. Rajesh	B. Tech & MBA Students	10-09-2020
18.	Career opportunities	Mr. Tulasiram	B. Tech & MBA Students	21-11-2020
19.	Civil Service Examination	Mr. Manjunath	B. Tech & MBA Students	08-10-2020
20.	Career opportunities for Physics Graduates	Mrs. Lavanya	B. Tech & MBA Students	09-03-2021
21	CAT (common aptitude test) exam	Mr. Manoj	B. Tech & MBA Students	21-02-2021



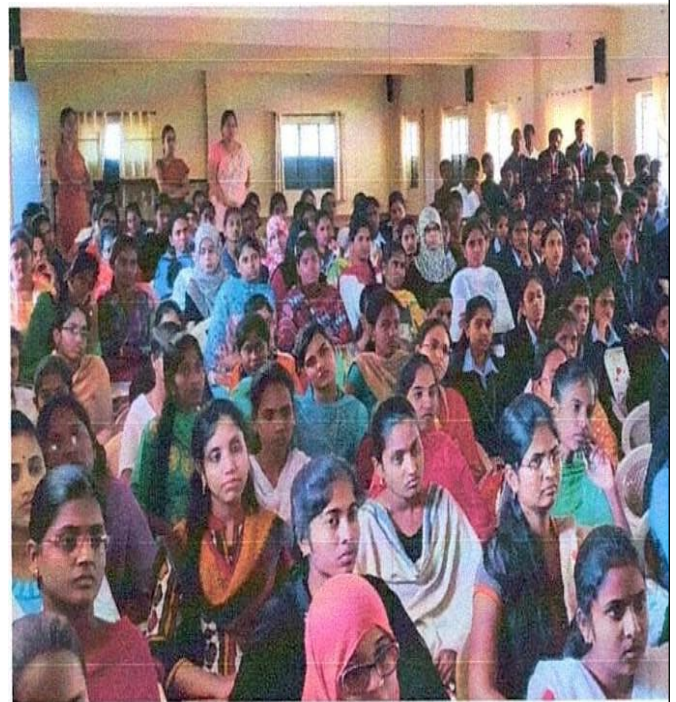
How to prepare for CIVILS



Civil Service Examination



Career Counseling in IT Industry



Career Readiness Program

Pre-Placement Training:**Table 9.5.3 List of Placement Training Organized**

S. No.	Name of the Resource Person	Date	Skills
2022-2023			
1.	Ms. Sofia	07-08-2022 To 07-08-2022	Awareness Program on how to face an interview
2.	Mr. Manoj Kumar	28-01-2023 To 28-01-2023	Career Counselling in the IT Industry
3.	Ms. Ramesh	09-02-2023 To 09-02-2023	Career Readiness Program
4.	Mr. Prabhakaran	23-04-2023 To 23-04-2023	Awareness Program on Reasoning Preparation to clear written tests on campus drives
2021-2022			
5	Mr. Jagadeesh	26-09-2021 To 26-09-2021	Guest Lecture on Facing interviews to clear Campus Drives
6	Mr. Vamsi Krishna	01-04-2022 To 01-04-	Awareness program on How to

		2022	face HR Interview
7	Mr. Balaji	20-04-2022 To 20-04-2022	Awareness program on Reasoning preparation to clear Written Tests in Campus Drives
8	Mr. Niteesh	01-05-2022 To 01-05-2022	How to face an HR Interview
2020-2021			
9	Mr. Vinod	24-12-2020 To 24-12-2020	career opportunity for commerce graduates
10	Mr. Manohar	17-01-2021 To 17-01-2021	Awareness program on Aptitude Role to clear Written Tests in interviews
11	Mr. Vijay Kumar	18-02-2021 To 18-02-2021	Guest Lecture on LIC Jobs for graduates
12	Mr. Mansoor Alam	25-07-2020 To 25-07-2020	Communication crack interviews



Guest Lecture on LIC Jobs for Graduates



How to Face HR Interview



Career Counselling in the IT Industry



Communication crack interviews

F. Placement Process and Support:

- Final year eligible students will register for training with the Training and Placement cell.
- Training is provided for all eligible students.
- The students are provided with training like aptitude, group discussion, body language skills and interview skills.
- These activities are organized by the Training and Placement Cell with the help of Internal Faculty and External Training Experts.
- All registered students are advised to attend on and off-campus drives arranged by the T&P cell.
- The T&P cell also focuses on conducting mock interviews, group discussions, mock assessment tests, coding competitions, and arranging company-based orientation and interaction programs.

Table 9.5.4 Number of students placed in the past three years

S. No	Name of the Programme	2020-21	2021-22	2022-23
1	CSE	64	65	49
2	ECE	38	51	55
3	EEE	19	27	23
4	CIVIL	25	16	16
5	ME	27	17	16
6	MBA	48	82	38
Total		221	258	197

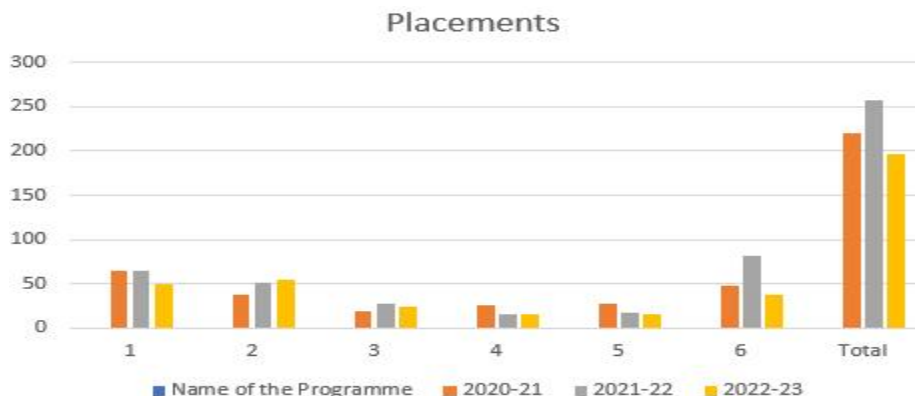
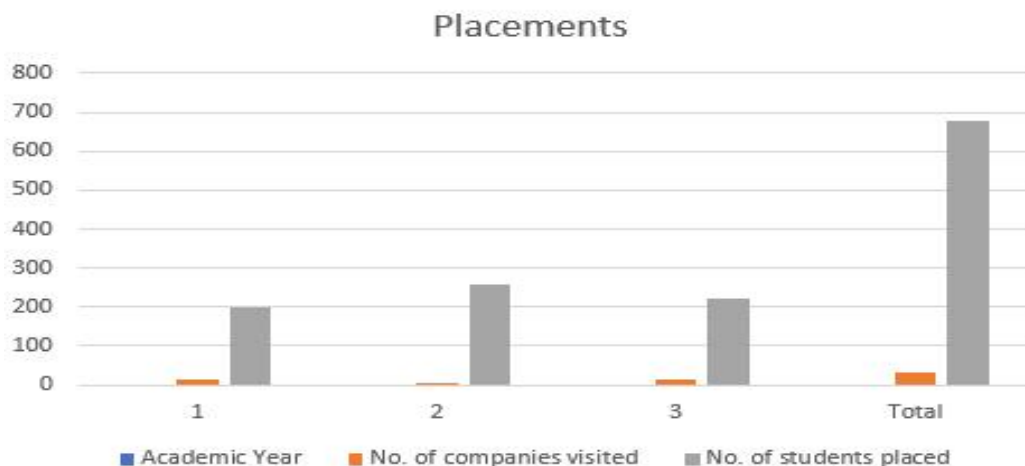


Table 9.5.5 Number of companies visited and No. of students placed for past three years

S.No	Academic Year	No. of companies visited	No. of students placed
1	2022-23	12	197
2	2021-22	07	258
3	2020-21	12	221
Total		31	676



9.6 Entrepreneurship cell (5/5)

The Institution may describe the facility, its management and its effectiveness by encouraging entrepreneurship and incubation, Success stories for each of the assessment years have to be mentioned.

Vision:

“Our vision is to develop, enhance, and carve out the inner innovative and entrepreneurial potentials of the students by providing them an opportunity to present their views in front of EDC.

Mission:

“EDC aims to convert feasible ideas into absolute business propositions, which will not only add value to an individual but will also benefit the nation as a whole.”

Objectives of the cell

- To create an environment for self-employment and entrepreneurship development through formal and non-formal programs.
- To introduce the concept of entrepreneurship in curricula at diploma and degree levels.
- To develop management personnel at appropriate levels for the non-corporate and unorganized sectors like education, rural development, small- scale industry etc.
- To utilize the infrastructure facilities and technically trained manpower for the development of non-corporate and unorganized sectors.
- To promote employment opportunities.

Functions

F1: To promote the Entrepreneurship culture by organizing Entrepreneurship Awareness Campus, Entrepreneurship Development Programmes, Faculty Development Programmes and Skill Development Programmes in the institution.

F2: To initiate innovative student projects each year for new innovative product development.

F3: To guide and assist prospective entrepreneurs on various aspects such as preparing project reports, obtaining project approvals, loans and facilities from agencies of support systems, information on technologies, etc. by creating a bridge between industries and the academic institution.

F4: To arrange interaction with entrepreneurs and create a mentorship scheme for student entrepreneurs to be a successful firm.

F5: To facilitate the creation of entrepreneur's clubs in each department to foster a culture of entrepreneurship amongst students.

F6: To encourage filing of patents among students and faculties.

Mapping of Functions (F) with Pos:

po /f	p o 1	p o 2	p o 3	p o 4	p o 5	p o 6	p o 7	p o 8	p o 9	po 10	po 11	po 12
F 1	2	2	3	3	2	-	-	-	2	2	3	1
F 2	2	3	3	3	2	-	-	-	2	2	3	1
F 3	2	2	2	3	3	-	-	-	3	2	3	-
F	1	2	2	3	3	-	-	-	2	2	3	1

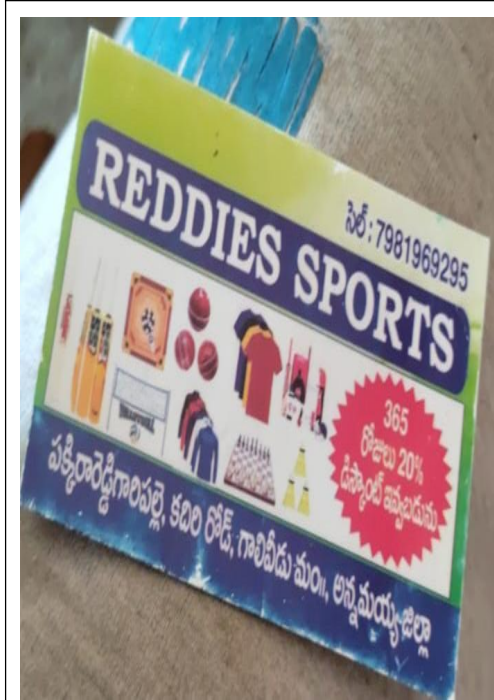
4												
F 5	2	2	2	2	3	2	-	-	3	2	3	1
F 6	3	2	3	3	2	1	-	-		2	3	1
F	2. 0	2. 3	2. 5	2. 8	2. 5	2. 0	-	-	2. 3	2.0	3.0	1.0

Entrepreneurship Initiatives:

- The Institute strongly believes that original and innovative ideas are born in the minds of young people.
- The Entrepreneurship Development Cell (EDC) at Viswam Engineering College has been established to develop entrepreneurial spirit among the students and help them to realize their dreams.
- An effort is made to inculcate these skills from student days and to provide a holistic education, which includes this kind of orientation.
- In order to fulfill self-awareness EDC cell has been formed in the College with the following objectives
- To conduct various entrepreneurship programmes like Training programmes,
- Seminars and awareness camps have to be conducted in order to promote entrepreneurship skills among the students.
- To create awareness of entrepreneurship among the students.
- To motivate and develop entrepreneurship abilities among the students.

- To create awareness regarding the sources of help and support available to potential entrepreneurs.

s.no	Name of the student	Roll no	branch	Passed out year	Name of the firm	Place of the firm
1	T. PRAGATHI	19W51A0519	CSE	2023	Fashion Designer	Hyderabad
2	P.Rammohan Reddy	17W51A0551	CSE	2021	Reddies Sports	Galiveedu
3	M Manikanta	19W51A0547	CSE	2023	Email Marketing Executive	Bangalore



P. Rammohan Reddy
17W51A0551

T. Srinath 18W51A0330



Email Marketing Executive
M Manikanta

T.Pragathi Fashion Designer
19W51A0519

19W51A0547	
------------	--

9.7 Co-curricular and extra-curricular Activities (10/10)

(The institution may specify the co-curricular and extra-curricular activities)
(Quantify activities such as NCC, NSS etc.)

Extra-curricular activities:

A.National Service Scheme (NSS)

The **National Service Scheme** (NSS) is an Indian government-sponsored public service program conducted by the Department of Youth Affairs and Sports of the Government of India. Popularly known as NSS, the scheme was launched in Gandhiji's Centenary year, 1969. Aimed at developing student's personality through community service, NSS is a voluntary association of young people in Colleges, Universities and at +2 level working for a campus-community linkage. The cardinal principle of the NSS programme is that it is organized by the students themselves, and both students and teachers through their combined participation in community service, get a sense of involvement in the tasks of nation building.

FUNCTIONS:

All round Personality Development of students through community service.

1. Create awareness about the community in which they work
2. Develop a sense of social and civic responsibility.
3. Identify the needs and problems of the community and involve them in problem solving process.
4. Utilize their knowledge in finding practical solution to individual and community problems.
5. Practice national integration and social harmony.

6. Acquire leadership qualities and democratic attitude.

Motto:

The Motto of NSS "**Not Me but You**", reflects the essence of democratic living and upholds the need for self-less service. NSS helps the students develop appreciation to other person's point of view and also show consideration to other living beings. The philosophy of the NSS is well doctrine in this motto, which underlines on the belief that the welfare. of an individual is ultimately dependent on the welfare of the society on the whole and therefore, the NSS volunteers shall strive for the well-being of the society.

PO/ FO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2
F01	-	-	-	-	-	3	3	2	3	2	-	-
F02						3	1	1	1	1	-	-
F03	-	-	-	-	-	3	1	1	1	1	-	-
F04	-	-	-	-	-	3	2	2	2	2	-	-
F05	-	-	-	-	-	1	-	-	-	-	-	3
F06	-	-	-	-	-	1	-	1	3	2	-	-

Facilities for NSS at VISM

The management of VISM provided many facilities to promote NSS events in and outside the college campus.

1. Special room for NSS cell.

2. Computer with LAN.
3. Xerox.
4. DSLR Camera.
5. Handy Cam.
6. Conveyance for events outside.
7. Seminar hall for events.
8. Mementos and Certificates.
9. Banners and flexis
10. Stationary

NSS COMMITTEE

NSS Cell consists of one coordinator with one faculty member from each department and one student from each class.

CO-ORDINATOR/PROGRAMME OFFICER

S.NO	NAME	DESIGNATION	DEPARTMENT	PHONE NO
1	Mr. S. Arshad Ali	Asst. Professor	H&S	8555089502

FACULTY MEMBERS

S.NO	NAME	DESIGNATION	DEPARTMENT	PHONE NO
1	Mr. A. Srinivasan	Assistant professor	CSE	8489698104

2	Mr. N. Nagendra	Assistant professor	ECE	9573013478
3	Mr. R. Raj Kumar	Assistant professor	CE	7305585427
4	Dr. B. Reddi Ramu	Assistant professor	MBA	8897892659
5	Mr. G. Pratap	Assistant professor	AIDS	9440883245
6	Mr. S. Anil	Assistant professor	ME	9885777956
7	Mr. G. Anasuya	Assistant professor	EEE	9618248646

STUDENTS MEMBERS

S.NO	NAME	YEAR	DEPARTMENT	ROLL NUMBER
1	M. Kalyani	III	ECE	21W51A0439
2	N. Nandini	III	ECE	21W51A0444
3	R. Nagamani	III	ECE	21W51A0453
4	T. Someswari	III	ECE	21W51A0461
5	V. Himaja	III	ECE	21W51A0463
6	V. Manjunath	III	ECE	21W51A0465

7	Y. Narasimhulu	III	ECE	21W51A0468
8	Y. Reddybabu	III	ECE	21W51A0471
9	Y. Chaitanya Kumar	III	ECE	22W55A0410
10	H. Fareeha	IV	CSE	20W51A0522
11	J. Mounika	IV	CSE	20W51A0524
12	K. Naveen	IV	CSE	20W51A0527
13	K. Srinath Reddy	IV	CSE	20W51A0529
14	K. Bunny	IV	CSE	20W51A0531
15	G. Dora babu Naidu	III	CSE	21W51A0528
16	G. Ravi Teja	III	CSE	21W51A0525
17	G. Farnaz	III	CSE	21W51A0523
18	E. Varun	III	CSE	21W51A0521
19	G. Reddy Prakash	III	CSE	21W51A0532
20	A. Pawan Kumar	III	CE	22W55A0101
21	G. Balaji	III	CE	22W55A0104

ROLES & RESPONSIBILITIES OF COMMITTEE MEMBERS

Role of the Coordinator

The Programme Coordinator is responsible for the success of NSS activities at the college level. He is most important person in the college level who will be the medium between the students, Faculty members and society. The attitude of Programme Officer should be positive to implement the NSS activities. The Programme officer makes the coordination between the students and the society.

The Programme Officers is to motivate student youth to understand the moral and ethical values of NSS. The overall function of Programme Officer is to help the students to plan, implement, and evaluate the activities of NSS and give proper guidance and directions to the student volunteers. The Programme Officer plays prominent role for the success of NSS activities like Coordinator, Educator, Administrator, Supervisor, Organizer and as a Public Relations Officer.

Role of Member

The role of a committee member is to participate at committee meetings and extends his support to any task. He has to attend committee meetings and carry out agreed actions set by the coordinator. Communicating with the volunteers when events are organized. Enrolling the students as NSS volunteer by motivation. To make decisions as a collective group and hold joint responsibility for decisions and actions taken by the committee, even in their absence. They are responsible for ensuring that all decisions are taken in the best interests of the committee and that their role is carried out effectively.

Role of NSS volunteers

An NSS Volunteer is a student, enrolled his name in the National Service Scheme. The roles of the NSS volunteers are very important according to the National Service Scheme. The NSS volunteers must actively participate in the NSS activities. The volunteer's coordination is important to the advisory committee for the smooth execution of the NSS activities.

S. No	Occasion	Date & Month
1	National Youth Day & Week	12 th to 19 th January
2	National Voters Day	12 th January
3	Republic Day	26 th January
4	World Cancer Day	4 th February
5	National Science Day	28 th February
6	Water Awareness Day	1 st to 7 th March
7	International Women's Day	8 th March
8	Worlds Handicapped Day	15 th March
9	World Disabled Day	19 th March
10	World Forrest Day	20 th March
11	World Health Day	7 th April
12	Fire Prevention Day	14 th April
13	Swachh Bharath Pakhwada	1 st to 15 th May
14	Nutrition Day	1 st to 7 th May
15	World Mother's Day	10 st May
16	Anti-Terrorism Day	21 st May
17	World Tobacco Day	31 st May

18	World Environment Day	5 th June
19	World Against Child Labor Day	12 th May
20	World Blood Donors Day	14 th June
21	International Day of Yoga	21 st June
22	Vana Mahotsav Week	1 st to 7 th July
23	World Population Day	11 TH July
24	Campaign Against nuclear weapons	6 th August
25	Independence Day	15 th August
26	Women's Equality Day	26 th August
27	Teacher's Day	5 th September
28	International Literacy Day-Week	8 th to 14 th Sep
29	N.S.S. Foundation Day	24 th September
30	Celebrations of Gandhi Jayanthi as promotion of Kadhi Day/ International Day of Non-Violence and Peace/Swachh Bharat	2 nd October
31	World Eye Sight Day	12 th October
32	World Food Day	16 st October
33	International Coastal Cleanup Day	21 st October
34	Rastriya Ekta Diwas (National Unity Day/Saving Day/National Integration Day)	31 st October

35	Mother's Day	19 th November
36	Worlds AIDS Day	1 st December
37	International Volunteers Day	5 th December
38	Human Rights Day	10 th December

The NSS volunteers are performing the role of mediator between the education system and the community which is helpful for the nation building.

YEAR PLANNER List of International and National Days/Weeks to be observed by NSS Unit

Appreciations for the Events Conducted

AY	2022-23	2021-22	2020-21
No. of Awards and Appreciations Received	4	5	4

S. No.	AY	Name of the Award and Appreciation	Awarding agency	Date of receipt of the award
1	2022-	Clean and green	Tettu Grama	01.03.2023

	2023	environment	panchayat office	
2	2022-2023	Distributing stationary to the students	sri Goodwill Computers	02.02.2023
3	2022-2023	Awareness among the students on dental and eye care	Rotary Club Madanapalle	11.11.2022
4	2022-2023	Swachha Bharat	Tettu Grama panchayat office	12-10-2022
5	2021-2022	Blood Donation Camp	Lions Club Madanapalle	16-03-2022
6	2021-2022	Massive Tree Plantation Day	Tettu Grama panchayat office	05-02-2022
7	2021-2022	Promotions of the clean and green Environment programme	Helping minds Society	06-11-2021
8	2021-2022	Free Medical Camp	Rotary Club Madanapalle	5-10-2021
9	2021-2022	Computer Learning and Small Savings	Sri Goodwill Computers	24-09-2021
10	2020-2021	Adult Education and Drill-Yoga	Rotary club Madanapalle	05-03-2021

11	2020-2021	Tree Plantation Programme	Tettu grama panchayat office	05-08-2020
12	2020-2021	Awareness Rally on Corona Virus	Tettu grama panchayat office	15-07-2020
13	2020-2021	Awareness Programme on World Cancer Day	Helping Minds Society	04-06-2020

<p style="text-align: center;">TETTU GRAMA PANCHAYAT OFFICE (Sachivalayam) Tettu, Kurabalakota Mandal.</p> <hr/> <p>Subject: Appreciation Letter to Viswam Engineering College, Angalla – For the "Massive Tree Plantation Day".</p> <p>Respected Sir,</p> <p style="text-align: center;"><u>Letter of Appreciation</u></p> <p>This is to appreciate the efforts of NSS volunteers of your 'Viswam Engineering college' for participating in the "Massive Tree Plantation Day" in Tettu Grama Panchayat area, Kurabalakota Mandal on 05-06-2022. We hope to do more green activities with the support of your NSS volunteer team in future too.</p> <p>Thanking you,</p> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;">  SARPANCH Stamp & Signature (Sarpanch) </div> <div style="text-align: center;">  Panchayath Secretary Tettu Gram Panchayath Stamp & Signature (Panchayat Secretary) </div> </div> <div style="text-align: center; margin-top: 20px;">  </div>	<p style="text-align: right;">Regd. No.215/2014</p> <div style="text-align: center;">  Helping Minds Society being human... respect humanity... </div> <p style="text-align: right;">Date : 16-11-2021</p> <p>Shaik Abubakar Siddiq Founder + 91 950 246 1515</p> <p>Subject: Appreciation Letter to Viswam Engineering College, Angalla, for the "Promotions of Clean & Green Environment"</p> <p>Respected Sir,</p> <p style="text-align: center;"><u>Letter of Appreciation</u></p> <p>This is to appreciate the efforts of NSS volunteers of your 'Viswam Engineering college' for participating in the "Promotions of Clean & Green Environment Programme" in Tettu Grama Panchayat area, Kurabalakota Mandal on 16-11-2021. The Programme was highly successful as the people of our area expressed their gratitude as they came to know the importance of Clean & Green Environment and the wonderful benefits of it. And they expect such programmes need to be conducted now and then. Hence, we appreciate your efforts for your active participation and the valuable time you spent to enlighten the people about the importance of Clean & Green Environment.</p> <p>Thanking you,</p> <div style="text-align: right; margin-top: 20px;">   </div> <hr/> <p style="font-size: small; text-align: center;"># 4-2-16, Krishna Nagar, MADANAPALLE - 517 325, Chittoor Dist., A.P. e-mail : helpingmindssociety.mpl@gmail.com Cell : 950246 1515, 8099 513 517</p>
---	---

 <p>ROTARY CLUB, MADANAPALLE Rotary Children's Library, Baby Welcome Home MADANAPALLE - 517 325, Annamayya Dist., A.P. email - rotarympk@gmail.com</p> <p>To: 05.10.2021 The Principal Viswam Engineering College, Madanapalle -517325</p> <p>Dear Sir</p> <p>Sub: Appreciation letter for conducting a Health awareness camp in your college campus in connection with National Health Protection Initiative – Regarding</p> <p>Ref: Our request to NSS Officer to conduct this program on 05.10.2021.</p> <p>We thank all the participants in the above program conducted by our Rotary club, Madanapalle to create awareness among the students about the dental and eye care in your college campus on 05.10.2021. We appreciate all the heads of department of the college to encourage the students to participate in this program.</p> <p>We appreciate the efforts of Dr. Anil Kumar Reddy, BDS and Dr. Vamsidhar Reddy, Ophthalmist for participating and making the students to know the ways and means to keep good health of their teeth and eyes.</p> <p>We also thank the NSS Officer for his support and appreciate the management for their support for all Rotary initiated programs for the benefit of the students.</p> <p>Thanking you</p> <p> (P.V.Prasad) President, Rotary Club, Madanapalle</p>	<p>An ISO : 9801:2015 DIRECTLY AUTHORIZED BY Tally EDUCATION PVT. LTD. BENGALURU</p>  <p>SRI GOODWILL COMPUTERS The Institute of Computers and Accounts</p>  <p>C. Ajay Kumar, M.Com., PGDCA Managing Director</p> <p>Subject: Appreciation Letter to Sir Vishveshwaraiah Institute of Science & Technology – Angalla – for the “Distributing Stationery to The Students on Special Camp”</p> <p>Respected Sir,</p> <p>Letter of Appreciation</p> <p>This is to appreciate the efforts of NSS Unit of your Sir Vishveshwaraiah Institute of Science & Technology for participating in the “Distributing Stationery to The Students on Special Camp” in Tetta Grama Panchayat area, Kurahalakota Mandal on 05-09-2017. The Programme was highly successful as the people of our area expressed their gratitude for the NSS Unit distributed stationery to all the students on Special Camp on behalf of Sri Goodwill Computers. And we sincerely welcome you to conduct such important programmes often.</p> <p>Thanking you,</p> <p> MANAGING DIRECTOR SRI GOODWILL COMPUTERS Educational Welfare Society MADANAPALLE - 517 325</p> 

A. Availability of sports and cultural Facilities:

- Sport is an integral part of the curriculum. Various sports facilities are provided to the students within the campus.
- The college is committed to create a balanced atmosphere of academic, cultural, and sports activities for the overall personality development of its students.
- Various sports competitions such as Inter-departmental, intercollegiate, Inter-University, etc. help in developing team spirit in students.
- Their interpersonal relationship is enhanced in a very healthy manner. Students are provided with honors like medals, trophies, and certificates.
- The college has a separate hall for conducting and practicing indoor games and with necessary sports materials like Caroms, chess, and table tennis.
- The college has well-established and separate courts for outdoor games like basketball, volleyball, shuttle, tennikoit, throwball, cricket, etc.
- All these sports and games are conducted and organized by a qualified

Physical Director.

Table.9.7.1 Details of Sports Facilities available

S. No	Name of the Area	Open Ground/ Plinth Area in Sq. Mtrs.
1	Basketball	423.52
2	Volley ball	201.72
3	Throw ball	213.26
4	Tennikoit	155.33
5	Shuttle badminton	292.00
6	Cricket	2910.00

B.Broad activities of the department:

- Preparation of Play fields for the use of players from time to time.
- Conduct selection trials to pick-up talented players for participation in Inter-collegiate tournaments, practice matches, and invitation tournaments of students and staff.
- Providing coaching to the participating teams.
- Providing games and sports material for regular practice.
- Inviting quotations for the purchase of quality sports material.
- Organizing practice matches for different events from time to time.
- Guiding students/players towards academic accomplishments.
- Providing sports uniforms for the students for participation in tournaments.

- Conducting intramural games and sports competitions for men and women students separately in volleyball, cricket, football, table tennis, badminton, throwball, tennikoit, athletic events, etc.
- Presenting meritorious certificates and mementos to the winners and runners in intramural competitions for students and staff on college annual sports day celebrations
- Providing T.A., D.A., and sports Uniforms to the college team players for participation in inter-collegiate and other recognized tournaments.
- Grant of attendance to the participating students in the competitions.

A. NSS Cell:

- The institute has an active NSS Cell, which facilitates in organizing various programs like Swachh Bharath, Blood donation camps etc.
- Every year students enroll for the NSS work and participate in the activities as per the academic Convenience.
- College organized many blood donation camps, medical camps, and health awareness camps, as part of the social responsibility under National Service Schemes.

Table 9.7.1 List of NSS activities organized

S. No	Name of the programme	Name of the organization	Date
2022-23			
1.	Awareness program on the Disha App	Viswam Engineering College	13.09.2022

2.	Computer learning and small savings	Viswam Engineering College	24.09.2022
3.	Free Medical Camp	Viswam Engineering College	05.10.2022
4.	Promotions of clean & green environment	Viswam Engineering College	16.11.2022
5.	Awareness of World AIDS Day	Viswam Engineering College	01.12.2022
6.	Awareness on Covid-19	Viswam Engineering College	20.02.2023
7.	Adult education & Drill Yoga	Viswam Engineering College	06.01.2023
2021-22			
1.	Awareness program on Yoga Day	Viswam Engineering College	17.10.2021
2.	Special camp	Viswam Engineering College	07.02.2022
3.	Adult education & Drill Yoga	Viswam Engineering College	05.03.2022
4.	Free mega medical	Viswam Engineering College	12.03.2022
5.	Blood group special camp	Viswam Engineering College	08.04.2022
2020-21			

1.	Road safety week	Viswam Engineering College	15.11.2020
2.	Awareness rally on corona virus	Viswam Engineering College	15.02.2021
3.	Special camp	Viswam Engineering College	08.03.2021
4.	Blood group special camp	Viswam Engineering College	08.04.2021

Table.9.7.2 List of NSS activities organized

	
<p>Awareness program on World Cancer Day</p>	<p>Donation for Medical Expenses for School Kid Suffering from Dengue</p>



Awareness Program on Yoga Day



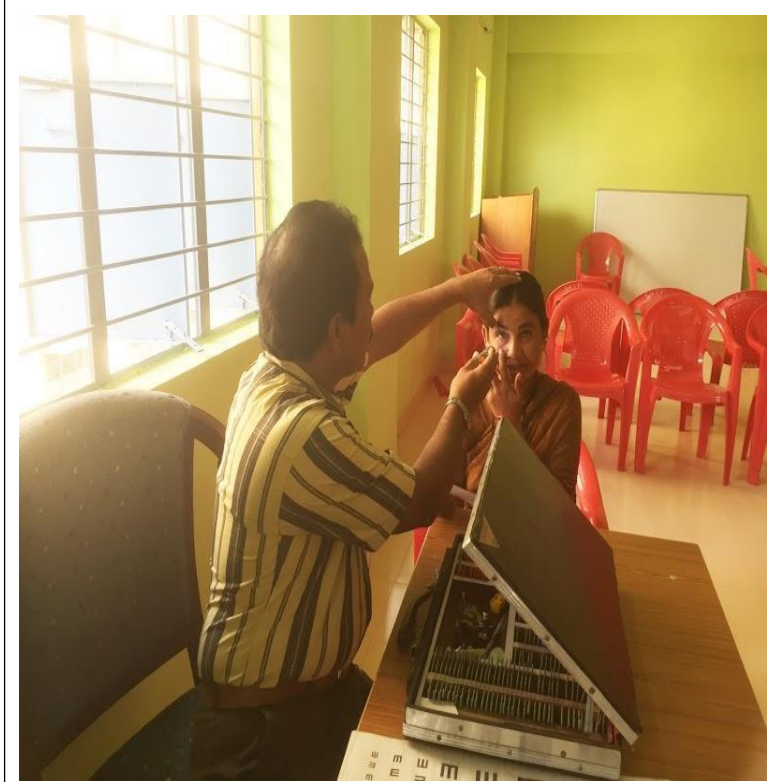
Awareness Rally on Corona Virus



Clean and Green Program on Plant Power Day



Road safety week (Special Camp)



One Day Medical Camp



Blood Donation Camp



National Voters Day



Adult Education & Drill-Yoga



Tree Plantation on NSS Day



Road safety

(Tank Bund Cleaning)



Special camp




Meditation class



Plantation day

B. Annual day students activities:

- Viswam Engineering College gives much importance to activities apart from curriculum through structured Co-curricular and Extra-curricular activities.
- These activities are integrated and spread over the entire academic year, as they have profound impact in shaping up the overall personality of a student.
- All activities are pre-planned and included in the college curricular calendar.
- All activities are well planned and executed by the students with the support of faculty when it is needed.
- **Orientation Day** (for I-B. Tech students and their parents), **Traditional Day** (UDHBAV-2K22), **TECHNOPHILIA-2K23** (the tech fest) and **AAGAMANA** (the College Day) are the major annual attractions.
- Students actively participate in programs conducted on important days like Republic Day, Independence Day, Engineers Day etc.
- They also participate in sports and cultural activities every year.



 DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

I B. Tech Time Table for Induction Program (2023-27 Batch)
 Academic Year 2023-24 (ZERO SEMESTER)
BRANCH: COMMON TO ALL I B. Tech.

Day\Date\Time	9:20 to 11:00	11:10 to 12:50	1:40 to 4:20
ORIENTATION DAY FUNCTION			
04-09-2023 Day-1 (Monday)	Human Values & Professional Ethics Mr. RamaKrishna Sir, MBA, VISM		Communication Skills (English Faculty) & Teacher's Day Celebration
05-09-2023 Day-2 (Tuesday)	Quiz (BS&H Faculty)	Motivational Speech by Mr. Ramakrishna Sir, MBA, VISM	Physical Activities-Sports
06-09-2023 Day-3 (Wednesday)	General Activities (English Faculty)	Physical Activities-Yoga & Meditation (Dr. Paul Brahma Kumar)	Physical Activities-Sports
07-09-2023 Day-4 (Thursday)	PICNIC to Horsley Hills		
08-09-2023 Day-5 (Friday)	Second Saturday is Holiday		
09-09-2023	Sunday is Holiday		
10-09-2023	Monday is Holiday due to Bundh		
11-09-2023	Career Counselling by Ms. Prathyusha Manubolu ServiceNow Developer / Administration HCL, Bangalore		
12-09-2023 Day-6 (Tuesday)			General Activities (BS&H Faculty)
13-09-2023 Day-7 (Wednesday)	Aptitude (Dr. K. Krishnaveni)	Awareness about Bank account openings, Study Loans at Abroad by Mr. R. Srinivasulu Reddy, Fincare Small Finance Bank, Madanapalle Branch	Awareness about Importance of Communication & Soft Skills by Mr. Thati Srinivasulu Reddy JNTUH, School of Information Technology, Hyderabad
14-09-2023 Day-8 (Thursday)	Motivational Speech by Mr. Hareesh Reddy Young India, IMPACT, Hyderabad		
15-09-2023 Day-9 (Friday)	Awareness about Pranic Healing by Ms. Madhavi, Yoga Trainer	Soft Skills by Dr. G.L. Meena Dept. of MBA, VISM	Awareness about Placements by Mr. K. Kedar Gaurav Training & Placement Officer
16-09-2023 Day-10 (Saturday)	Orientation on Admitted Branch-Creer Options, Tools, etc by Dept. HODS & Senior faculty	Orientation on Admitted Branch corresponding Labs, Tools and platforms by Dept. Senior faculty	Remedial Training in Foundation Courses by Dept. Senior faculty



AAGAMANA



ADVITIYA



UDBHAV-2K22



TECHNOPHILIA



Orientation Day



C. CULTURAL COMMITTEE

The cultural committee is one of the crucial Committees of the college as far as the co-curricular and extra-curricular activities are concerned. Colleges believe in all round personality development of the students as a goal of education. It aims to provide rich cultural experiences and innovations so that student appreciates the multi-cultural diversity of the society. The committee is responsible for organizing any kind of cultural activity in and outside of the campus. committee members comprising of both staff and students, meet together at regular intervals to initiate, formulate, and plan the co-curricular activities and cultural programs besides their academic activities. The committee takes initiative to find out and include new talents of the students in extra-curricular disciplines, as well as prepare and provide a platform for the students to project their talents through various cultural programs.

Functions of the Committee

- FO1 To encourage the students to participate in Youth Fests and intercollegiate events
- FO2 To motivate and involve the students in co-curricular activities for their holistic development as a human being.
- FO3 To plan and schedule cultural events for the academic year.
- FO4 To create opportunities for students where they can portray their talents besides the academic activities
- FO5 Supervise the cultural growth in student community in terms of the practice of innovative co-curricular activity.
- FO6 To enhance the campus life experience of every student through cultural and extracurricular activities
- FO7 To have student clubs, and /communities in all areas of importance for student development.

Cultural Committee Members 2022-23

S. No.	Name of the Member	Designation	Committee Designation
1	Mrs. B. Jyothsna	Associate professor	Coordinator
2	Mrs. K. R. Gayathri	Assistant Professor	Faculty Member
3	Mrs. W. J. Himabindu	Assistant Professor	Faculty Member
4	Mrs. K. Haritha	Assistant Professor	Faculty Member
5	Mrs . G. M. Anasuya	Assistant Professor	Faculty Member
6	Mr. E. Varun	III Yr CSE	Student Member
7	Mr. G. Reddy Prakash	III Yr CSE	Student Member

Roles and Responsibilities of the Committee

- The Committee is responsible to design and finalize the list of cultural events, participants related to the specific cultural programme.
- The Committee is responsible to do all preparations like sending information to the people, gathering of students-parents, making arrangements for the functions or programmes, dealing with event managers.
- Coordinator and assistant coordinator chalk out the cultural activities and arrange for rehearsals
- Students' in-charges shall inspect the rehearsals and make it a place for all the people willing to perform/participate
- Monitoring the discipline during cultural activities.

Roles and Responsibilities of Coordinator.

- To plan and schedule cultural events for the academic year. (Tentative dates to be included in the academic calendar of the institute.)
- To obtain formal permission from the College authorities to arrange the program
- To prepare a budget for all cultural events and take necessary steps for its approval.
- To invite the Chief Guest and other dignitaries
- Conduct meetings of the committee to discuss and delegate tasks.

Roles and Responsibilities of Faculty Member

- One cultural in-charge and faculty member from each department schedules the cultural events at different times throughout the year.
- To arrange the venue and logistics (audio/video system, dais, podium, etc.)
- To arrange mementos for guests and gifts/certificates for the participants
- Ensuring student and volunteer participation for making the events/fests

successful.

- External artist and supporting staff-related issues will be addressed by faculty members from each department and cultural in-charge.

Roles and Responsibilities of Student Members

- Members from the student community will be giving continuous support to the teachers as well as the students to keep them informed about the upcoming cultural activities.
- To display on the Notice Board/Website information about festivals to be celebrated
- To ensure adequate PR and Publicity of the event(s)

Events/ Activities of the cell

Singing (Solo)

Singing (Group)

Instrumental Music

Dance(solo) Dance (Group). Mehandi

Rangoli

Utti Striking

Drawing

List of events organized in 2022-2023

Si.No	Date	Occasion	Event/Description	Participants
1	21 st June 2022	Yoga Day	Yoga Asanas	VISM faculty members participated
2	19 th July 2022	Orientation Day	Welcoming First Year Students.	All B. Tech First Year VISM Students participated
3	05 th September 2022	Teacher's Day	Felicitation to Teachers by Students.	All the students of B. Tech and MBA of VISM participated in the event
4	15 th September 2022	Engineer's Day	1. Poster presentation 2. Mini projects	All the students of B. Tech II nd , III rd , IV th year of VISM participated in the event
5	22 nd September 2022	Fresher's Day	1. Mr. and Miss Fresher	All MBA First Year and Second Year VISM Students participated
6	29 th September 2022	Graduation day	Issuing Graduation Certificate to passed out Students	All the VISM 2018 passed out batch students attended the event.

7	09 TH JANUARY 2023	SANKRANTHI SAMBARALU	Mehandi Competition Rangoli Competition	All the students of B. Tech II nd , III rd , IV th year and MBA of MCET participated in the event
8	09 th FEB 2023	Traditional Day	1.Mr. And Miss Traditional Rangoli Competition 3. Mehandi Competition 4.Utti Striking	All the students of B. Tech and MBA of VISM participated in the event
9	25 TH MARCH 2023	National Science Day	1.Essay Writing 2. Elocution 3. Poster Presentation	All the students of B. Tech 1st year participated in the event.
10	29 TH JANUARY 2022	Fresher's Day	Mr & Miss Fresher	All B. Tech First Year and Second Year VISM Students
11	MAR 17 TH 2022	Traditional Day	Rangoli Competition Mehandi Competition .Utti Striking	All the students of B. Tech and MBA of VISM participated in the event

List of events organized in 2021-2022

S. No	Date	Occasion	Event/Description	Participants
1	21 st June 2021	Yoga Day	Yoga Asanas & Surya Namaskars	All VISM faculty members participated
2	22 nd July 2021	Orientation Day	Welcoming the First Years	All B. Tech First Year VISM Students participated
3	05 th September 2021	Teacher's Day	Felicitation to Teachers students.	All the students of B. Tech and MBA of VISM participated in the event
4	15 th OCTOBER 2021	Engineer's Day	1. Poster presentation 2. Mini projects	All the students of B. Tech II nd , III rd , IV th year of VISM participated in the event
5	20 TH NOVEMBER 2021	Bathukamma Celebration	1. Mehendi Competition 2. Rangoli Competition	All the students of B. Tech II nd , III rd , IV th year and MBA of VISM participated in the event
6	30 th September 2021	Fresher's Day	1. Mr. and Miss Fresher	All B. Tech First Year and Second Year VISM Students

				participated
7	05 th JANUARY 2022	Traditional Day	1.Mr. And Miss Traditional Rangoli Competition Mehandi Competition 4.Utti Striking	All the students of B. Tech and MBA of VISM participated in the event
8	28 th February 2022	National Science Day	1. Essay Writing 2. Elocution 3. Poster Presentation	All the VISM and Stanley College of Engineering and Technology students participated

List of events organized in 2020-2021

S.No	Date	Occasion	Event/Description	Participants
1	30 th July 2020	Oriental Day	Welcoming the First years Students .	All B. Tech First Year VISM Students participated
2	05 th September 2020	Teacher's Day	Felicitation to Teachers by students.	All the students of B. Tech and MBA of VISM participated in the event
3	17 TH September 2020	Engineer's Day	1.Elocution 2.Essay Writing	All the students of B. Tech II nd , III rd , IV th year VISM participated in the event
4	15 th October 2020	Traditional Day	1. Mr. And Miss Traditional 2. Rangoli Competition 3. Mehendi Competition 4. Utti Striking	All the students of B. Tech and MBA of VISM participated in the event

5	12 th November 2020	Bathukamma Celebration	1. Mehandi Competition Rangoli Competition	All the students of B. Tech II nd , III rd , IV th year and MBA of VISM participated in the event
6.	03 rd December 2020	Fresher's Day	1.Mr. and Miss Fresher	All B. Tech First Year and Second Year VISM Students participated
7.	28 th February 2021	National Science day	1.Essay Writing 2. Quiz 3.Elocution 4.Poster Making	All B. Tech 1 st year students.
8	11 th March 2021	Annual Day- Methric Utsav	Solo Singing Group Dance Painting	All the students of B. Tech and MBA of VISM participated in the event

AY	2022-23	2021-22	2020-21
Total No. regional festivals celebrated	11	08	08





D. Sports and Games Cell:

Sports and Games Cell is basically constituted to improve, develop and create awareness of sports and games for an individual. As the saying goes “Health is Wealth”, we strive to inculcate the habit of exercising and keeping good health. All sports and games help in achieving the best physical fitness and good health

Functions of the Cell

F01	To develop the spirit of sportsmanship & leadership qualities among the students in college.
F02	To create an environment this encourages the students to actively participate in various sports and games competitions outside the college.
F03	To create awareness about the benefits of physical exercises to maintain a good physical and mental health among students.
F04	To evaluate fair results of the games conducted
F05	To schedule and apply the events/planner for the academic year in consultation with the student’s representative and management.

Roles & Responsibilities of Sports Cell**Role of the Coordinator**

1. Ensure all necessary tasks for day to day running of the game and sports activities of the college are carried out.
2. To Chair Committee Meetings ensuring that they are running efficiently and effectively
3. To represent the committee and the college involving all sports matters.
4. Submit an annual report to the college management.
5. Ensure transparency in the related activities

Role of the Faculty Member

1. Maintain records of the Committee and ensure effective management of committee's records.
2. Formulate and update the yearly calendar of events under the observation of coordinator of the committee.
3. Communicate with respective Head of the Department regarding the activities of the cell.
4. Identify the students who have leadership quality and propose their name to the coordinator as student representative.
5. Report all the related day to day activities to the coordinator of the committee.

Role of the Student Member

1. To communicate to the fellow students about the scheduled games and sports in/out side campus.
2. To follow up and implement the instructions periodically given by Co-Ordinator and Faculty members of the committee.
3. To help members in organizing sports & games in/out side campus events under the guidance of the faculty member.

Role of the Physical Director:

1. To maintain a stock ledger of all available items and equipment related to the cell.
2. To ensure the purchase and service of any item or equipment related to the cell.
3. To maintain and upkeep the sports facilities of the college including the ground.
4. To provide First Aid facility during the sports and games activities.

Facilities of the Cell

Outdoor Facilities

Sl. No	Name of the Facility	Quantity	Dimension	Occupancy
1	Shuttle Badminton Court	1	13.4m x 6.1m	4
2	Volleyball	2	18m x 9m	24
3	Throw Ball Court	2	18.30m x 12.20m	18

Indoor Facilities

Sl. No	Name of the Facility	Quantity	Dimension
1	Table tennis board	1	2.74m x 1.525m x 15.25cm(net)
2	Carom Board	2	Standard
3	Chess	7	Standard

Faculty Committee:

Co-Ordinator: P. Bhaskar

S. No	Name of the Faculty	Department
1	Mrs. B. Keerthi	ECE
2	Mrs. G. M. Anasuya	EEE
3	Mr. S. Anil	MECH
4	Mr. R. Raj kumar	CE
5	Mr. A. Srinivasan	CSE
6	Mr. S. Jaya praksah	H&S
7	Mr. V. R. Rama krishna	MBA

Student Committee:

S. No	Name	Roll No	Department
1	Y. Reddy babu	21W51A0471	ECE
2	Y. Chaitanya Kumar	22W55A0410	ECE
3	H. Fareeha	20W51A0522	CSE
4	J. Mounika	20W51A0524	CSE
5	K. Naveen	20W51A0527	CSE
6	K. Srinath Reddy	20W51A0529	CSE
7	A. Pavan Kumar	22W55A0101	CE
8	M MANASA	23W55A0209	EEE
9	P. Hareesh	23W55A0302	ME



VISWAM ENGINEERING COLLEGE

(Formerly Sir Vishveshwaraiah Institute of Science & Technology)

Madanapalle – 517 325

Summary – Sports events conducted

AY	2022-23	2021-22	2020-21
Total No. events conducted	15	17	14

S. No.	AY	Name of the Event	Date of Event
1	2022-23	Leg To Leg	31/8/2023
2		Kabaddi	2/3/2023
3		Tennikoit	18/4/2023
4		Badminton	13/4/2023
5		Carrom Board	3/4/2023
6		Chess	27/3/2023
7		Disc Throw	8/3/2023
8		Chess	10/11/2022
9		Throw Ball	10/3/2023
10		Cricket Tournament	20/3/2023
11		Leg To Leg	15/10/2022
12		Badminton	16/09/2022

13		Hockey	2/6/2022
14		Cricket Tournament	6/7/2022
15		Essay Writing	8/8/2022
S. No.	AY	Name of the Event	Date of Event
1	2021-22	Cricket Tournament	20/3/2022
2		Kho Kho	1/2/2022
3		Kabaddi	15/02/2022
4		Running	21/7/2022
5		Long Jump	28/2/2022
6		High Jump	20/3/2022
7		Shotput	15/03/2022
8		Volley Ball	18/04/2022
9		Basket Ball	18/04/2022
10		Tennikoit	15/03/2022
11		Volley Ball	21/7/2022
12		Running	15/02/2022
13		Kabaddi	21/7/2022
14		Leg To Leg	20/3/2022
15		Badminton	14/04/2022

16		Hockey	16/04/2022
17		Lemon Spoon	18/04/2022
S. No.	AY	Name of the Event	Date of Event
1	2020-21	Essay Writing	27/2/2021
2		High Jump	16/04/2021
3		Shotput	14/03/2021
4		Volley Ball	21/7/2021
5		Basket Ball	15/02/2021
6		Tennikoit	21/7/2021
7		Volley Ball	26/2/2021
8		Running	27/2/2021
9		Kabaddi	19/3/2022
10		Leg To Leg	13/04/2021
11		Badminton	15/04/2021
12		Hockey	16/04/2021
13		Cricket Tournament	14/04/2021

Student Clubs**Department of Computer Science and Engineering****Tech Titans Club**

“The tech titans club encourages the regional technology community to collaborate, share and inspire creative thinking that fuels tomorrow’s innovations”. The Name “Techno Titan” comes from two parent words, “Technology” and “Titans”. As the club will be a technical one so, we will try to keep ourselves closest to the latest technologies.

The word Titan means “A person of exceptional importance and reputation” and it reminds us of the Titans of Rome, big and powerful. So just like them, we will try to be big and powerful by improving ourselves till we reach perfection. Besides the name, the logo has a punch line, i.e. Explore yourself. We shall be providing the students of our college with the same opportunity.

We are known as TECH TITANS as our students/members are encouraged to complement their academic pursuits with involvement in extracurricular activities. One of the best avenues for involvement is participation in every contest. Through such participation, students achieve:

- (1) A strong social network
- (2) Leadership qualities
- (3) Appreciation for Snow College and the process of higher education, and
- (4) A perspective on values that help prepare them for an active and rewarding life.

ACTIVITIES:

Tech Titans must support the College Mission Statement. Tech Titans clubs will never be self-serving, but instead must aim to serve others. Club aims to benefit those within our club but also outside the club itself

Objectives of the Club:

- To organize at least one event every month that may help the participants in various ways.
- To improve students' technical as well as communication skills.
- To make students more placements oriented.
- To try and make the students self-dependent.
- To grow awareness among the students about the current affairs around the world.
- To boost up the confidence of the students.
- To find the hidden qualities of the students and allow them to explore themselves.
- To indulge in things that are not studies but still very useful in one's career.
- To try and provide a platform to the members for being an all-rounder in real life.
- To provide the college authorities with as many innovative ideas as possible.
- To increase the level of intimacy among the juniors and the seniors.
- To enlighten the students on various benefits of teamwork and co-operation.
- To act as a guide in giving the right direction and to provide a conducive environment to make sure that every student accomplishes his/her goals.
- We have adept counseling and meeting cells to monitor the progress, this cell is ever ready to share and sort out any kind of problems suffered by students.

Faculty Coordinators:

- 1) Dr. V. Hema Sree
- 2) Mrs. Y. Basanthi

Student Members:

1. 20W51A0543 M. Mythri
2. 20W51A0532 K. Pallavi
3. 20W51A0531 K. Bunny

Criterion 10	Governance, Institutional Support and Financial Resources	120/120
---------------------	--	----------------

10.1 Organization, Governance and Transparency (40/40)

10.1.1 State the Vision and Mission of the Institute (5/5)

Vision of Viswam Engineering College Madanapalle

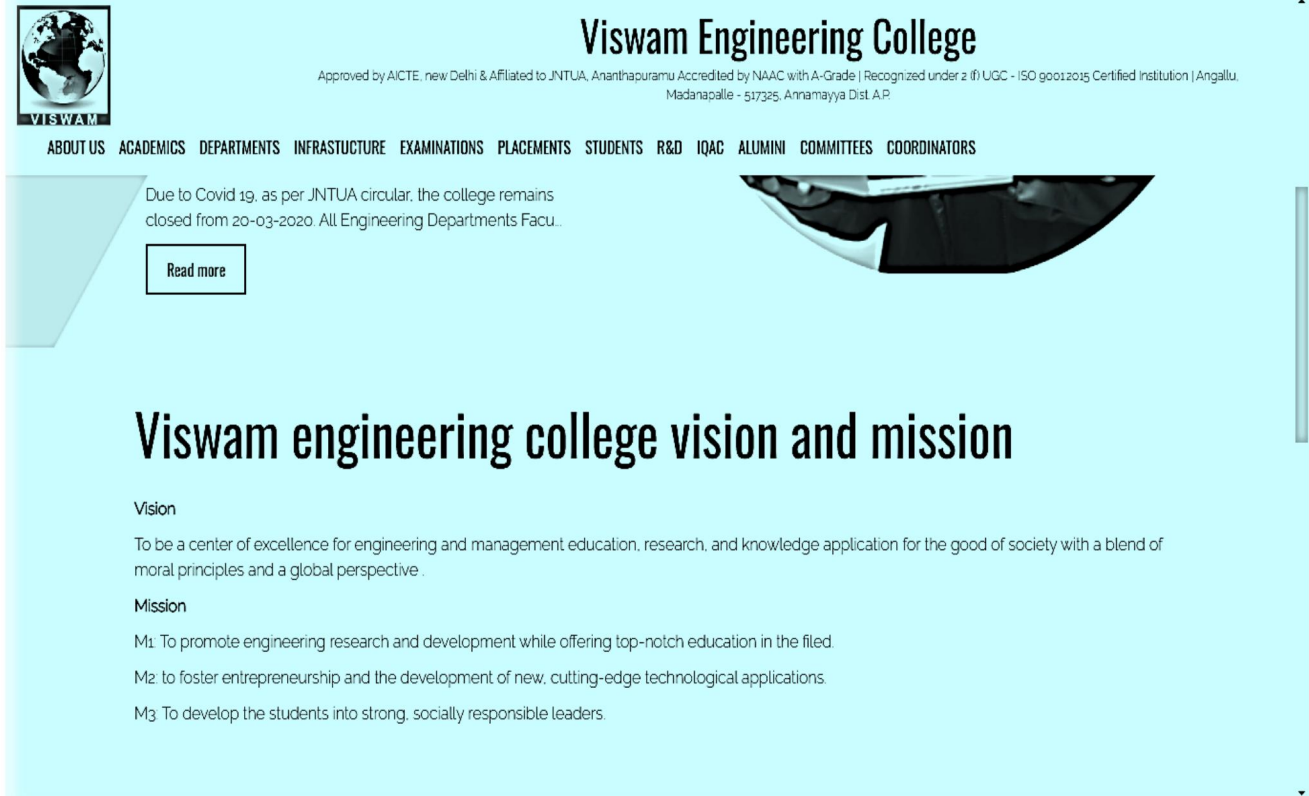
Vision

To be a center of excellence for engineering and management education, research, and knowledge application for the good of society with a blend of moral principles and a global perspective.

Mission of Viswam Engineering College Madanapalle

Mission

- M1 To promote engineering research and development while offering top-notch education in the field.
- M2 To foster entrepreneurship and the development of new, cutting-edge technological applications.
- M3 To develop the students into strong, socially responsible leaders



Viswam Engineering College
Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu Accredited by NAAC with A-Grade | Recognized under 2 (f) UGC - ISO 9001:2015 Certified Institution | Angallu, Madanapalle - 517325, Annamayya Dist. A.P.

ABOUT US | ACADEMICS | DEPARTMENTS | INFRASTRUCTURE | EXAMINATIONS | PLACEMENTS | STUDENTS | R&D | IQAC | ALUMINI | COMMITTEES | COORDINATORS

Due to Covid 19, as per JNTUA circular, the college remains closed from 20-03-2020. All Engineering Departments Facu.

[Read more](#)

Viswam engineering college vision and mission

Vision
To be a center of excellence for engineering and management education, research, and knowledge application for the good of society with a blend of moral principles and a global perspective.

Mission
M1: To promote engineering research and development while offering top-notch education in the field.
M2: to foster entrepreneurship and the development of new, cutting-edge technological applications.
M3: To develop the students into strong, socially responsible leaders.

Figure 10.1.1 the Institute Vision and Mission



Figure 10.1.2 the Institute Vision and Mission

Mapping of Vision and Mission

Viswam Engineering College's Vision and Mission		PEOs			
		1	2	3	
Vision		To be a center of excellence for engineering and management education, research, and knowledge application for the good of society with a blend of moral principles and a global perspective.			
Mission	M1	To promote engineering research and development while offering top-notch education in the field			
	M2	To foster entrepreneurship and the development of new, cutting-edge technological applications.			
	M3	To develop the students into strong, socially responsible leaders			

Vision and Mission of the Department		PEOs			
		1	2	3	
Vision		To envision a computer science and engineering department that cultivates a culture of curiosity, creativity, and excellence, where students and faculty thrive in an inclusive and supportive environment. We are committed to fostering a deep understanding of core principles and social ethics while embracing emerging trends and technologies			
Mission	M1	Provide the environment to become industry ready Professionals, Scientists and Industrialists by offering courses on leading edge technology and innovative laboratory courses for the students			

CRITERION -10		CSE- SAR			
	M2	Impart high quality experiential learning to get expertise in modern software tools and to cater to the real time requirements of the industry.			
	M3	Inculcate problem solving and team building skills and promote lifelong learning with a sense of societal and ethical responsibilities.			

Department of Computer Science and Engineering

Justification of Department Vision in correlation with Institute Vision

Vision of the Department	Vision of the Institute	Justification
To envision a computer science and engineering department that cultivates a culture of curiosity, creativity, and excellence, where students and faculty thrive in an inclusive and supportive environment. We are committed to fostering a deep understanding of core principles and social ethics while embracing emerging trends and technologies	To be a center of excellence for engineering and management education, research, and knowledge application for the good of society with a blend of moral principles and a global perspective.	The Computer Science and Engineering department strongly follows the mission and vision of the department with globally recognized outstanding education and research in collaboration with industry related development to meet the challenges.

Department Mission in Correlation with Institute Mission

Computer Science and Engineering				
Mission of Department	Mission Statements	Mission of the Institute		
		M1	M2	M3
		To promote engineering research and development while offering top-notch education in the field	To foster entrepreneurs hip and the development of new, cutting-edge technological applications.	To develop the students into strong, socially responsible leaders
Department Mission 1 (DM1)	Provide the environment to become industry ready Professionals, Scientists and Industrialists by offering courses on leading edge technology and innovative laboratory courses for the students	3	3	2
Department Mission 2	Impart high quality experiential	3	3	2

(DM2)	learning to get expertise in modern software tools and to cater to the real time requirements of the industry.			
Department Mission3 (DM3)	Inculcate problem solving and team building skills and promote lifelong learning with a sense of societal and ethical responsibilities.	2	2	3

Note :- Correlation levels : 1- Average ,2- Medium, 3 -Strong

Computer Science and Engineering			
Justification of department mission in correlation with Institute Mission			
Department Mission	Institute Mission	Justification	
Department Mission 1 (DM1)	Institute Mission 1 (IM1)	The department Mission1 is highly correlated with institute mission1 as the institute mission depicts the research and development process, whereas the dept mission depicts the leading edge technology and inventive laboratories.	By providing resources and opportunities for faculty and students to engage in research initiatives, institutions contribute the expansion of knowledge in engineering. This results in significant development of new technologies and solutions, positioning graduates at the forefront of the rapidly evolving engineering landscape.
	Institute Mission 2 (IM2)	The department mission 1 is highly correlated with the institute mission 2 because of both are correlated with the development of new edge cutting technologies and real time requirements of the software industries	By offering courses on cutting-edge technologies will equip them with the latest skills and knowledge demanded by industries. Incorporating innovative laboratory courses allows students to apply theoretical concepts in practical scenarios, fostering a deeper understanding and honing their problem-solving abilities.
	Institute Mission 3 (IM3)	The institute mission 3 is moderately correlated with department mission 1	Encouraging community engagement, emphasizing ethical decision-making and promoting empathy and inclusivity within the

		due to students can apply theoretical concepts in real-world scenarios, enhancing their problem-solving abilities and adaptability. This makes the students as a strongly social responsible leader.	curriculum helps students understand the broader implications of their actions. Developing these traits in students ensures that they not only excel in their professional roles but also contribute positively to society, driving change and making ethical decisions that have a broader positive impact
Department Mission2 (DM2)	Institute Mission 1 (IM1)	Institute mission 2 highly correlated with department mission 1 because both missions focused on implementation of new things through the research, innovation and leading edge technologies tools	Theoretical knowledge alone often falls short in preparing individuals for the intricacies of real-world applications. By engaging in experiential learning methods, such as hands-on projects, simulations, and interactive experiences, individuals can gain practical expertise.
	Institute Mission 2 (IM2)	The institute mission 2 is highly correlated with the department mission 2 as they both spots the modern software tools and edge technologies through the experiential learning	By immersing oneself in practical applications, individuals not only grasp the functionalities of software tools but also cultivate problem-solving skills, adaptability, and a deep understanding how to leverage these tools in diverse scenarios. This approach ensures a workforce that meets the ever-evolving demands of the industry, making it a crucial aspect of professional

			development.
	Institute Mission 3 (IM3)	Institute mission 3 is moderated correlated with department mission 2 due to the institute mission spotlight the social responsibilities of the students	Beyond academic achievements, nurturing qualities of leadership and social responsibility cultivates individuals who can positively impact society. Our college's holistic approach not only produces great professionals, but also responsible global citizens who promote positive change.
Department Mission 3 (DM3)	Institute Mission 1 (IM1)	Institute mission 2 is moderately correlated with Department mission 1 as the department mission3 states the social and ethical responsibilities of the students while institute mission in states the research and technological aspects of the student growth	An institution committed to fostering holistic growth integrates problem-solving and team-building skills into its curriculum, cultivating a mindset of perpetual learning alongside a strong sense of societal and ethical duties
	Institute Mission 2 (IM2)	Institute mission 2 is moderately correlated with department Mission2 as department mission 2 articulates the experts in modern software tools.	By emphasizing the problem-solving abilities, teamwork, and fostering lifelong learning, individuals not only adapt to evolving challenges but also contribute positively to their communities.

	Institute Mission 3 (IM3)	Institute mission 2 is highly correlated with department mission3 because both mission related with social ethics and responsibility of the citizen	Our college makes attention on skills and values that equips students to excel in a rapidly changing world while remaining committed to social responsibility and ethical leadership.
--	---------------------------	---	---

10.1.2 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10/10)

a) Governing body:

Viswam Engineering College has well established organizational structure to execute out smooth functioning of administrative and academic processes. Various bodies are formulated which constitutes the organization chart. The governing body is the highest decision-making body constituting members of the management, Principal and nominated faculty members. College Development Committee includes representatives of members of society, Principal, three members elected from teaching faculty and one member of non-teaching staff. The constituents of the organization structure are as follows: Every department has Department Advisory committee to direct policies to excel students in academics and in work environments. It comprises one member each from industry, research establishment, and academic institute of repute, alumni, student, and parents and from management. Principal, Heads of the Departments, sectional heads and co-coordinators of various committees have adequate participation in making decisions in academic and administrative processes under their preview. Members of Governing body, College development committee, Internal quality assurance cell and institute level committees are shown in the tables below:

Members of the Governing Body:

Governing Body of Institute	
Chairman	To be nominated by the society
Member	Two to five members (Industrialist / Technologist / Educationalist) to be nominated by Society
Member	Nominee of the affiliating university
Member	Nominee of AICTE (Ex – Officio)
Member	Nominee of State Government
Member	Industrialist / Technologist / Educationalist from the Region to be nominated by the society
Member Secretary	Principal of the college.
Member	Two faculty members to be nominated from the regular staff, one at the level of professor and one at the level of Assistant Professor.

Table No. 10.1.1 Constitution of Governing Body

S. No.	Name	Designation
1	Sri.M.Prabhakar Reddy	Chairman (Society)
2	Mrs.M.Amaravathamma	Member (Society)

3	Mr.M.Krishna Reddy	Member (Society)
4	DTE Nominee	Nominee
5	AICTE Nominee	Nominee
6	Dr. S Krishnaiah	University Nominee
7	Dr.G L Samuel	Academician
8	Dr.K Venkatramana	Industry
9	Dr. D Ramana Reddy	Member Secretary
10	Dr. B D Venkatramana Reddy	Member
11	Dr.D Sai Lakshmi	Member

Table No. 10.1.2 List of Governing Body Members for the year 2022-23

S.No.	Academic Year	Number of Meetings
1	2023-24	02
2	2022-23	02
3	2021-22	02

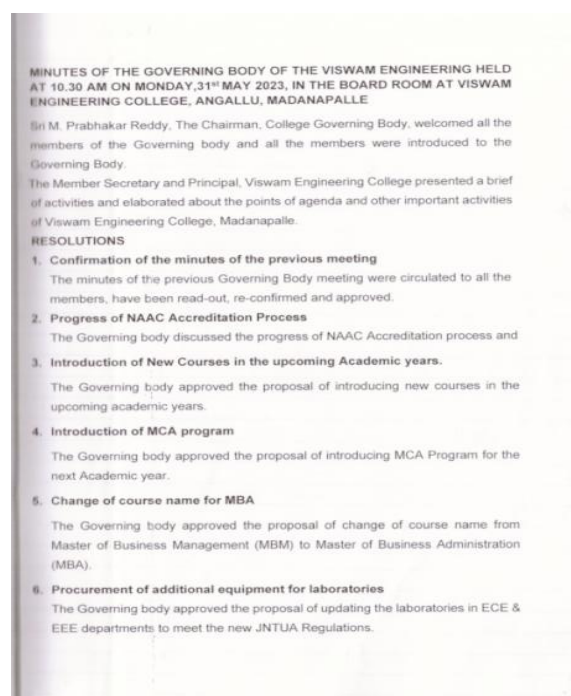
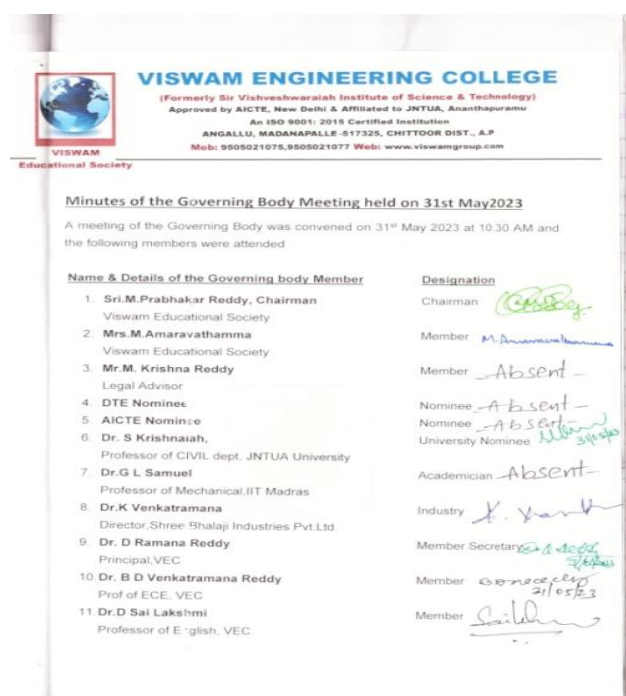
Table No. 10.1.3 Number of meetings of Governing Body

Functions and Responsibilities of the Governing Body:

1. Formulate academic aims and objectives of the institution.
2. Prepare strategic plans for financial, infrastructural and staffing areas
3. Examine the recommendations of College Academic Advisory committee and prepare a road map for achieving the goals of the institution.
4. To monitor the academic and other related activities of the college


- 5.To consider the recommendations of the staff selection committee.
- 6.To consider the important communications, policy decisions received from the University, Government, AICTE etc.
- 7.To monitor the student and faculty development programs.
- 8.To consider the recommendations of the College Academic Committee of the college for implementation
- 9.Examine the budget proposals and accord approval.
- 10.To pass the annual budget of the college.
11. To check the audited income and expenditure accounts and approve the same for the college annually.

Minutes of Meeting of Governing Body



7. **Appointment of Faculty members**
The Governing Body approved the proposal of faculty recruitment for the academic year 2022-23 in various departments.
8. **Introduction of Centre of Excellence**
The Governing body approved the proposal of Introduction of Centre of Excellence in Association with industry partners.
Proposed COE's are Machine Learning, IOT, robotics, SCADA, AI Application with EE& APEC.
9. **Proposal for Continuous training process**
Governing body accepted the proposal to conduct continuous training class for first year to final year students.
10. **Proposal for introducing National & International certificate courses**
The Governing body approved the proposal of introducing National & International certificate courses.
11. **Proposal for development of Virtual labs for enhanced learning**
The Governing body approved the proposal of development of Virtual labs for enhanced learning
12. **More emphasis on Guest lecturers, Technology conclaves**
The Governing body approved the proposal of More emphasis on Guest lecturers, Technology conclaves
13. **Proposal to more focus on student Internships and advanced project works.**
Governing body accepted the proposal to more focus on student Internships and advanced project works.
14. **Establishment of Character lab & Career Guidance Cell**
Governing body accepted the proposal of Establishment of Character lab & Career Guidance Cell
15. **Proposal to more focus on Faculty development**
Governing body accepted the proposal of more focus on Faculty development in terms of Continuing education, Paper Publications, text book writings & patent filings.

16. **Proposal to introduce Institute specific R&D Policy**
The Governing body approved the proposal of Institute specific R&D policy to promote Research oriented programs like writing Research proposals in collaboration with industries or any other autonomous Institutions.
Principal Dr. D Ramana Reddy proposed vote of thanks and the Governing Body Meeting ended by 12.00 PM on 31.05.2023.


 Dr. D Ramana Reddy
 Principal

Copy to:

1. All the Members of Governing Body.
2. Copy to Chairman, Viswam Group of Institutions.
3. Office File

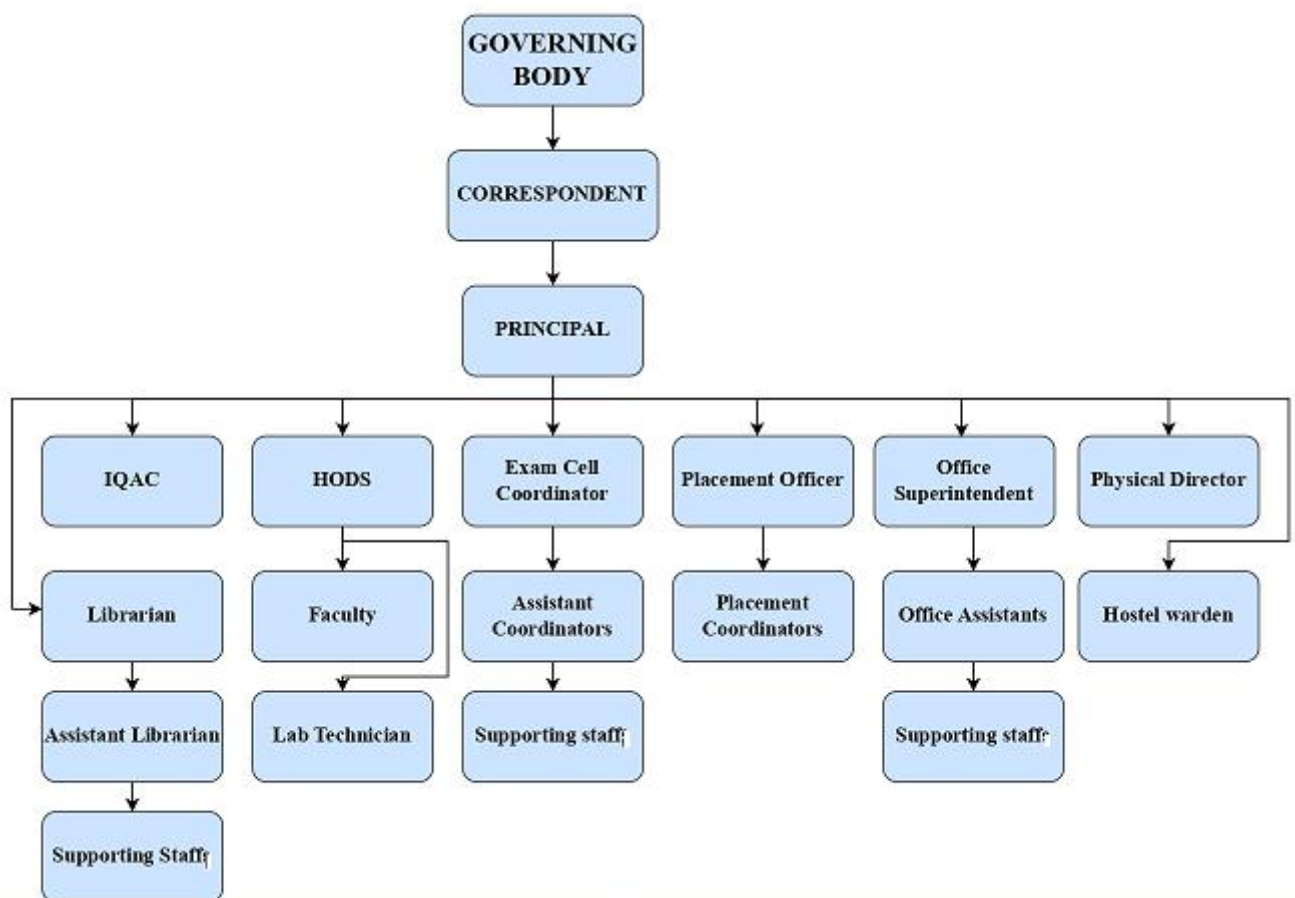
b). Administrative set up

Viswam Engineering College believes in a perfect decentralization of activities and delegation of authorities, which is the proven key concept in the success achieved by the institute on different counts. The Institute is student centric and the whole system is built around this fundamental concept of making best students. Involvement of each and everyone in the decision-making at their respective levels is ensured through decentralization and delegation of powers. Hence there are various institutional committees consisting of faculty staff members and students. Transparency associated therein also forms an important feature of the work culture.

The Principal, Head of the Departments and various committees participate in

decision making which create an organizational democracy. Powers and responsibilities are delegated to faculty on the basis of their competence, commitment and their ability to meet the institutional objectives , All academic and administrative activities are decentralized and decisions are taken based on discussion and deliberations in departmental meetings, monthly faculty meetings and HOD's meeting with Principal taking into consideration the student feedback wherever necessary

Organizational Structure



1. Governing Body is the Apex body of the institution. It mainly looks after overall growth of institution.
2. The Principal is the head of the institution and an associate between the Management, Staff & Students.
3. The Principal has equitable autonomy to take financial decisions in consultation with the management, related to procurement of lab equipment, funding seminars, workshops, Departmental expenditure etc.
4. HOD is responsible for the functioning of the respective Department as per

the policies of the college.

5. The office superintendent looks after the day-to-day administration of the college office and helps the Principal in complying with the regulatory bodies.
6. Committees formed will have a coordinator and members of the committee are faculty members drawn from all the departments. The coordinator ensures that the committee meet its responsibilities.
7. The committees formed at departmental level report to their respective Head of the Departments who in turn will report the findings of the committee to the Principal for further necessary action.
8. To effectively plan and implement various academic matters relating to the welfare of the students, decentralization is the method used. Allotment of course work, monitoring of syllabus coverage, planning and organizing seminars, guest lectures, workshops, industrial tours, student development programs, staff orientation programs, remedial sessions, Personality development programs, project works etc are taken care by various committees (of faculty members) formed by the head of the Department.

c).Functions of Key Administrative/ Academic Committees

Committee	Functions
Academic Advisory Body	✓ Attend bi-annual/need based meetings and review agenda and supporting documents before attending meeting.
	✓ Provide support in planning program and identifying resource persons for meeting the identified gaps in the curriculum/ industry requirements and also assist in identifying the resources for funding R & D Projects/ seminar grant / student innovative projects.
College Academic Committee	✓ To review the academic, students, faculty development programs and other related activities of the college.

	<ul style="list-style-type: none"> ✓ To visualize and formulate perspective plans, Master Plan for the development and growth of the college.
	<ul style="list-style-type: none"> ✓ To formulate and plan for resource mobilization through industry interaction, consultancy and extra-mural funding.
	<ul style="list-style-type: none"> ✓ To promote research and extension activities, teaching innovations and student placement programs in the college campus.
	<ul style="list-style-type: none"> ✓ To plan for sustaining the quality of education, quality improvement and accreditation of the college.
	<ul style="list-style-type: none"> ✓ To recommend schemes to promote participation of academic departments in community development activities in the region.
	<ul style="list-style-type: none"> ✓ To consider such other activities for furtherance of academic excellence
<p>Public relations, press and Media Publication, Newsletter coordination committee</p>	<ul style="list-style-type: none"> ✓ Development of rapport, goodwill, understanding and acceptance as the chief end result sought by public relations activities.
	<ul style="list-style-type: none"> ✓ Public Relations are for establishing the relationship among the two groups (organization and public).
	<ul style="list-style-type: none"> ✓ Conducting Press - Meets, Clarifications & Press releases, media alerts, and press conferences – For timely/breaking news by making suitable programs.

	<ul style="list-style-type: none"> ✓ Printing the News Letter with a view to disseminate the Vision and Mission of the department as well as the institute
Purchase/stores Committee	<ul style="list-style-type: none"> ✓ To allot the yearly budget department wise by discussing with the Principal/Management.
	<ul style="list-style-type: none"> ✓ Prioritizing requirements by discussing with corresponding department purchase committee
R&D and Consultancy Committee	<ul style="list-style-type: none"> ✓ To identify thrust areas of research and encourage the faculty to carry out research.
	<ul style="list-style-type: none"> ✓ To identify the budgetary requirements and resources for funding the research and periodically reviewing the progress of research.
Training & Placements and Career Guidance Cell Committee	<ul style="list-style-type: none"> ✓ Identifying training needs and facilitating career guidance to students
	<ul style="list-style-type: none"> ✓ Assessing training requirements of faculty as per the recommendations of department heads
	<ul style="list-style-type: none"> ✓ Evaluating the participation and learning process during the programs
Hostel Committee	<ul style="list-style-type: none"> ✓ To create an atmosphere of harmony and co-operation amongst the boarders of hostel and provide the boarders a peaceful and congenial environment to enable them to excel in their studies and personality development
Canteen / House Keeping/	<ul style="list-style-type: none"> ✓ To establish and Implement the canteen

Hygiene/ Sanitation Committee	policy and to monitor the discipline in canteen.
	✓ To provide quality food at reasonable / subsidized prices.
NSS Committee	✓ To encourage the students to participate and utilize their knowledge in finding practical solution to individual and community problems.
	✓ To motivate the students to actively participate in various NSS activities inside and outside the college campus.
	✓ To make the students aware about the NSS schemes in India.
	✓ To sort out any NSS related issues.
	✓ To schedule events/planner for the academic year in consultation with the Student's representative and management
	✓ Develop capacity to meet emergencies and natural disasters.
	✓ To inculcate the value of keeping Environment Clean and Green by participating in lectures / seminars related to NSS.
Social Welfare(BC/SC/ST) Committee	✓ Maintain database of students who belongs to BC/ SC/ST community.
	✓ To Make the students aware of the various schemes/Assistances/Scholarships available for students.

	<ul style="list-style-type: none"> ✓ Committee continuously monitors the effective implementation of the social welfare Policies intended for BC/SC/STs Welfare by the Govt. of Andhra Pradesh.
Sports & Games Committee	<ul style="list-style-type: none"> ✓ To device and implement a mechanism for sports activities including students coaching, ground preparation, procurement of sports material and scheduling of the games.
	<ul style="list-style-type: none"> ✓ To device and implement a mechanism for publicizing and motivating the students for participation in games and sports activities and organize inter-departmental sports and games events.
	<ul style="list-style-type: none"> ✓ To coordinate with the university sports division and arrange for the, participation in regional/state/national level sports events.
	<ul style="list-style-type: none"> ✓ To device and implement a mechanism for liaison with the government agencies for grants in sports/gymnasium etc.
	<ul style="list-style-type: none"> ✓ To work out and execute any other activity related with the sports & games. The ultimate objective shall be to provide an environment that enhances the student's personality keeping them fit & healthy.
	<ul style="list-style-type: none"> ✓ To develop team work, management and leadership skills in the students which helps them to keep their

	positive attitude and be disciplined and confident in their future endeavors.
Transport Committee	✓ To allocate bus routes for the students and staff and allot busses for Industrial visits/ Placement and Training activities/ Co-curricular activities.
	✓ To monitor over all maintenance of the transport.
General Maintenance Committee	✓ Reviewing proposed resolutions by the governing body.
	✓ Facilitating the dissemination of information in the institute.
	✓ To look after the general maintenance of the buildings, generators etc
Cultural Committee	✓ To promote the awareness regarding the Arts and Culture.
	✓ To conduct various events like Traditional Day, Rangoli competition, Dance, Singing competitions etc.
Department Associations Committee	✓ To promote synergy among the students by promoting interactions and exchange of ideas and co-ordinate the non-academic functions like organizing Group Discussions, debates & quiz, preparation for campus interviews and Seminars by eminent personalities from the various industries/fields, within the departments
Examination Committee	✓ To conduct examinations as per the rules and regulations of the university

	<ul style="list-style-type: none"> ✓ Finalizing the internal marks and attendance and forwarding the attendance to university including condonation and detention lists.
Time Table Committee	<ul style="list-style-type: none"> ✓ To consolidate the roll list as per the university guide lines.
	<ul style="list-style-type: none"> ✓ Maintaining of university curriculum course wise and branch wise by preparing the academic calendar day wise.
Library Committee	<ul style="list-style-type: none"> ✓ Serve as an interpreter of the requirements of the library and recommend for funds needed.
	<ul style="list-style-type: none"> ✓ Provide support to the librarian in taking important decisions having implications for the users.
Industry Institute Interaction Cell Committee	<ul style="list-style-type: none"> ✓ To create awareness on industry systems quality, safety and other working standards of the industry by conducting seminars and guest lectures.
	<ul style="list-style-type: none"> ✓ To facilitate the process of identifying the internship opportunities for the desired students.
Entrepreneurship Development Cell (EDC) Committee	<ul style="list-style-type: none"> ✓ To develop and introduce curriculum on Entrepreneurship Development at various levels including degree/diploma courses of the parent institution and conduct skill development training programs leading to self/wage employment
Website/ICT/Internet Committee	<ul style="list-style-type: none"> ✓ To design and maintain college website

	with up to date information.
	✓ To recommend, design and deploy new ICT tools & policies when required and review, monitor the existing ICT plans of the college.
	✓ To procure and install industry specific software when and where required
Alumni Coordination Committee	✓ To conduct Alumni meet once in a year and collect feedback from alumni in order to contribute to the quality policies of the institute.
	✓ To coordinate the different departments and maintain the alumni data.
Internal Quality Assurance Cell Committee	✓ Development and application of quality benchmarks/parameters for the various academic and administrative activities of the institution.
	✓ Dissemination of information on the various quality parameters of higher education.
	✓ Acting as a nodal agency of the institution for quality-related activities
Women Welfare/ Sexual Harassment Eradication Cell Committee	✓ Women's Empowerment through Education.
	✓ Creating awareness and preventive steps towards protection of women staff / female students from sexual harassment in the college.
Student Counselling	✓ To improve the quality of counseling and

Committee	conduct awareness program on counseling process.
Professional Societies Activities Committee	✓ Conduct awareness programs on recent trends in Engineering and Technology and organize national and international seminars
Electrical / Computer Network Maintenance Committee	✓ Develop, implement, and maintain policies, procedures, and associated training plans for network resource administration and appropriate use.
	✓ Negotiate with vendors, outsourcers, and contractors to secure network products and services
Students, Faculty/Staff Grievance Cell Committee	✓ To solve student's grievances, relate to Assessment/ Victimization/Attendance/Harassment by other students or the teachers etc.
	✓ To solve faculty issues arising from their employment/in-disciplinary action among staff members/termination/ allegations
Anti-Ragging Committee	✓ The Institution follows the policy of zero tolerance to ragging.
	✓ The main function of the cell is to keep vigilance and avoid ragging among students
Right to Information Cell Committee	✓ To receive the application regarding seeking of information from the person approached in proper format along with application fee

	✓ To provide assistance in filling the application in case of language barrier of the applicant
	✓ To check whether the information sought or part thereof is exempted from disclosure under section 8 or 9 of the act.
	✓ To accept or reject the application, if rejected has to be conveyed to the applicant with the reason of rejection
	✓ If accepted to make necessary arrangements for the collection of data.
Medical Cell Committee	✓ To provide the medical facility in the case of emergency

Table No. 10.1.4 Functions Administrative/ Academic Committees

Service rules, Procedures, Recruitment and Promotional policies

Service Conditions

- a) A person shall be deemed to have been appointed to a post at **Viswam Engineering College** provided the post is in accordance with the existing AICTE / Government of Andhra Pradesh norms, but shall exclude staff appointed on deputation/ adhoc / on contract or temporarily.
- b) Every person appointed shall be certified to be of sound mental health and physically sound for service by medical authority as specified from time to time.
- c) The pay scales of teaching faculty shall be fixed by the Selection Committee as per the scales promulgated by the AICTE from time to time. Currently, the following are the scales as per the Sixth Pay commission prescribed by the AICTE.

CATEGORY	BASIC PAY BAND	GRADE PAY
Assistant Professor	Rs.15600–39100	Rs. 6000
Assistant Professor (Senior Scale)	Rs.15600–39100	Rs. 7000
Associate Professor	Rs.15600-39100	Rs. 8000
Associate Professor (Senior Scale)	Rs.37400-67000	Rs. 9000
Professor	Rs.37400-67000	Rs. 10000
Professor (Senior Scale)	Rs.37400-67000	Rs. 12000

Annual Increment

1. 3% of the Basic Salary (Basic Pay+ Grade Pay) with compounding effect
2. 4% of the Basic Salary (Basic Pay+ Grade Pay) with compounding effect for 2 years for a select few 25% in the Pay Band Rs. 15600-39100 on the basis of better teaching and research performance. Fresh appraisals are to be made after two years.

Stagnation Removals

- An incumbent after reaching the top of the scale in the pay band shall move to the next pay band without any change in the grade pay.
- Pay of non-teaching staff shall be as fixed by the Selection Committee.

Probation

- (a) All appointments of candidates selected will be temporary and deemed to be on probation for a period of 18 months. After the completion of the period, the services of the employee shall be

reviewed and if found satisfactory, his / her services will be confirmed. His / her service conditions will be governed by the rules and regulations of **Viswam Engineering College** in force.

- (b) In the case of tenure or contractual assignments, employees would be deemed to be on probation for a period of 12 months and this period could be extended.
- (c) If candidates are appointed purely on temporary basis in any vacancy, they have no right or lien to claim a permanent post. However such candidates may apply for such posts in a regular procedure as for open competition.
- (d) If a person initially appointed on a temporary vacancy is subsequently appointed to a regular position, he/she Shall commence probation from the date fixed for appointment on probation.

Increments

- a. Increments will be sanctioned only on satisfactory performance review.

In Teaching Staff, the increment is sanctioned based on the

(a1) Annual Appraisal Report of the employee by:

- (i) Feedback from Students
- (ii) HOD concerned
- (iii) Principal
- (iv) Management

(a2) Course Files maintained by the faculty

(a3) Academic results

(a4) Academic and Administrative Task/Actives delegated by the superiors to complete within the date on day-to-day basis, which it is withheld and if so whether the postponement shall have the effect of postponing future increments also leave periods shall be taken into account for the postponement.

Promotions

Promotion to a higher level of service shall be made subject to availability of posts, eligibility of staff on the basis of merit / efficiency, the commitment / dedication of the faculty to the all-round development / improvement of the corporate ambience of the institution. Seniority will be the deciding criteria. If Ph.D. is obtained while working at the Institute, an incentive up to three increments/ promotion could be considered.

Retirement

An employee of the college shall be retired on superannuation on attaining the age of 60 years provided the authority shall have the right to issue orders of retirement of an employee who has attained the age of fifty-eight (58) years for reasons of inefficiency, ill health and the like. The superannuation age may be extended to 70 years in certain exceptional cases as decided by the management.

- (a) This rule stated in (a) is however not applicable to those who are appointed on contract basis by the Management.

Resignation

Any member of the faculty in permanent service shall give three months' notice of his/her intention to resign or three month's salary in lieu thereof. The resignation shall be effective from the date of acceptance by the Authority Normally, they will not be relieved in the middle of the academic year.

- (i) Any member of the supporting staff in permanent service shall give one month's notice of his/her intention to resign or shall pay one month's salary in lieu, thereof.
- (ii) Any member during probation shall give one month's notice in case he / she desired to be relieved or one month's salary in lieu thereof.
- (iii) The appointing authority reserves the right to waive the notice period or the compensation thereof.

Termination

- (a) The services of a temporary employee are liable to be terminated at any time without notice and without assigning any reasons whatsoever.
- (b) The Management reserves the right to terminate the service of an employee on medical grounds giving suitable notice / suitable salary in lieu, as it may deem fit.
- (c) The Management may terminate an employee whether temporary or permanent if he / she is involved in political activity / a criminal case / has failed to do his duty leading to moral turpitude / negligence of duty.
- (d) Interpretation of rules, notwithstanding anything said anywhere, subject to availability of funds, decision of the Management will be final.

10.1.3 Decentralization in working and grievance redressal mechanism (10/10)

We at Viswam Engineering collage believe in decentralization of activities and delegation of authorities is the key concept in the success achieved by the institute on different platforms. Basically, overall working methodology at institute level is student centric and involvement of each and everyone in the decision-making at their respective levels is ensured through decentralization and delegation of powers. There are various bodies, committees and key administrative positions at institute and department level. In order to ensure transparency in the working of all these committees, code of conduct and process manual is available with all key administrative officers and central library of the institute.

Various portfolio in-charges have been delegated powers for taking administrative decisions.

S.No.	Name of Faculty member	Decision Authority
1	Dr. D. Ramana Reddy	Principal
2	Dr.L Thimmaiah	Coordinator, IQAC
3	Dr. R Vasantha Selvakumar	H.O.D (CSE)
4	Mr M Raveendra	H.O.D(ECE)
5	Mr. P Anjappa	H.O.D(EEE)
6	Mr.G Prathap	H.O.D(AIDS)
7	Mr. R. Rajkumar	H.O.D(Civil)
8	Mr. S B Anjappa	H.O.D(MECH)
9	Dr. B Sankar Naik	H.O.D(MBA)
10	Dr.CH. Kalyani	H.O.D(H & S)

Table No. 10.1.5 Faculties delegated with administrative powers

In addition to this, various Institute Level administrative committees have been formed for effective administration.

Details of coordinator and committee members are published on institute website, also, functions and responsibilities of the committees are also available on the institute website.

Coordinators of all the institute level committees are delegated with administrative powers for effective functioning of respective committee.

Institute level Decision making Authorities:			
S.n o	Name of the committee	Position/ Designation	Name of the coordinator
1	College Academic Committee	Coordinator	Mr.M Raveendra
2	Public relations, press and Media Publication committee	Coordinator	Mr.Kedar Gowrav
3	Purchase/stores Committee	Coordinator	Dr. S. Krishna veni
4	R&D and Consultancy Committee	Coordinator	Dr. B D Venkatramana reddy
5	Training & Placements and Career Guidance Cell	Coordinator	Mr.Kedar Gowrav
6	Canteen Committee/ House Keeping/Hygiene/ Sanitation	Coordinator	Mrs. K V Nandini
7	NSS Committee	Coordinator	Mr.S Arshad ali
8	Social Welfare(BC/SC/ST) Committee	Coordinator	Dr. B Sankar naik
9	Sports & Games Committee	Coordinator	Mr. N Nagendra
10	Departmental association Committee	Coordinator	Dr.M Reddi ramu
11	General Maintenance Committee	Coordinator	Mr. J Maheswar reddy
12	Cultural Committee	Coordinator	Mrs. B Jyothsna
13	Examination Committee	Coordinator	Mr. V. Vijay kumar
14	Time Table Committee	Coordinator	Dr. G .Venkata subbaiah
15	Library Committee	Coordinator	Mrs I Deepika
16	Industry Institute Interaction	Coordinator	Dr. R Vasanth selva kumar

	Committee		
17	Innovations and Entrepreneurship Development Cell (IEDC)	Coordinator	Dr.G L Meenaz
18	Website/ICT/Internet Committee	Coordinator	Mr. D Sanjeeva reddy
19	Alumni Coordination Committee	Coordinator	Dr. B D Venkatramana reddy
20	Internal Quality Assurance Committee	Coordinator	Dr.L Thimmaiah
21	Sexual Harassment / Women Welfare Committee	Coordinator	Mrs.N Rajani
22	Student Mentoring Committee	Coordinator	Dr V Hemasree
23	Professional Societies Activities Committee	Coordinator	Dr G Sankar
24	Electrical Maintenance Committee /Computer Network	Coordinator	Mr. P Anjappa
25	Students, Faculty/Staff Grievance Committee	Coordinator	Mr. P Viswanatha reddy
26	Anti-Ragging Committee	Coordinator	Dr. T Sreenivasulu reddy
27	Right to Information Committee	Coordinator	Mr.V R Ramakrishna
28	Medical Committee	Coordinator	Dr. D Sai lakshmi
29	Transport Committee	Coordinator	Mr N. Vijay kumar

Table No. 10.1.6 Various Institute level administrative committees and coordinators

- ⇒ Other than the above-mentioned committees, at department level, committees are formed for the smooth and efficient management of activities at department level. The committees are constituted by the HOD in consultation with faculty.
- ⇒ For effective implementation of various initiatives and for effective decentralization, committees such as department advisory board and program assessment and quality improvement committees are formed at department level.

S.N o.	Name of the member	Representatio n	Designation and organization
1	Dr. R Vasanth Selva Kumar	chairman Academics	HOD (CSE) , Viswam Engineering College
2	Dr. A. Suresh babu	Member Academics	Professor, CSE, JNTUA, Anantapur
3	Dr A. Sivakumar	Member Academics	Professor and Director, Academic Audit, JNTUA ,Anantapur
4	Mr S Suresh Kumar	Industrial person	Sr Software engineer, Euro cell, Bangalore.
5	Dr.V Hemasree	Member	Associate Professor
6	Mrs. B Jyothsna	Member	Associate Professor
7	DR G Manikanta	Member	Associate Professor
8	DR Pradhan	Member	Professor

Table No. 10.1.7 Department advisory board members

S.No.	Name of the Member	Representation	Designation
1	Dr. R Vasanth Selva Kumar	HOD (CSE) , Viswam Engineering College	Chairperson
2	Mr G Pratap	Module Co-Ordinator I	Member
3	Mr A Srinivasan	Departmental NAAC Co-Ordinator	Member
4	Mrs. Y Basanthi	Module Co-Ordinator II	Member
5	Dr. G Kishore Kumar	Departmental Industry Institute Coordinator	Member
6	Mr. D Sanjeev Reddy	Departmental exam Co-Ordinator	Member
7	Mr. P Viswanatha Reddy	Departmental academic Co-Ordinator	Member

Table No. 10.1.8 Program Assessment and Quality Improvement Committee (PAQIC) members

B) Grievance Redressal Mechanism:

Grievance redressal is systematically carried out by the members of grievance redressal committee under the guidance of Principal of the institution. List of faculty members who are administrators'/ decision makers' /committee members for various responsibilities are shown in the tables given below.

A Grievance Redressal Committee (GRC) at the College level is constituted for providing guidance and counselling on the problems related to faculty, staff and students.

The Committee redresses all kinds of grievances, academic or non - academic.

S. No	Faculty Name and Designation	Position
1	Dr C H Kalyani (HOD), Professor in Humanities and science	Coordinator
2	Mr S Rathnaswamy Assistant Professor & HOD in Civil Engineering	Member
3	Mr. A Srinivasan, Assistant Professor in CSE.	Member
4	Mr. S B Anjappa, Assistant Professor & HOD Mechanical Engineering	Member
5	B.Suresh Babu, Finance Officer	Member
6	S. Sai Nishwanth , IV year ECE	Member

Table No. 10.1.9 Members of Grievance Redressal Committee (GRC)

Grievance Redressal committee shall meet within a week from the date of receipt of any petition/complaint from anybody and initiate necessary action for solving the problem.

Mechanism of Grievance Redressal committee

a) An aggrieved stakeholder who has the grievance or grievances shall make a written complaint first to the Head of the Department (HOD). The HOD after verifying the facts, will try to redress the grievance within a reasonable time. If the stakeholder is not satisfied with the solution of the HOD, then the written complaint should be forwarded to the Principal through HOD. The Principal then refers the complaint to the Internal Grievance Redressal Committee.

b) On receiving the complaint from the Principal, Internal Grievance Committee meeting is called by the Chairman. The complaint is studied by the Committee. The Committee at all levels observes the law of natural justice.

c) The Committee arranges meeting with the aggrieved party first, he/she expresses their views. Similarly meeting with all aggrieved

members is scheduled. Thus, all the concerned, are given opportunity, one by one to express their viewpoint. Each one is requested to give their say in writing. The committee gives a patient hearing to both sides and counsels them. The committee also enlightens them based on their SWOC.

- d) After verifying the facts based on actual data and after deliberations, the report of the committee's findings and remedial measures is prepared and submitted to Principal.
- e) Final decision is communicated to the both parties through the Principal.
- f) The Committee, if needed, may recommend to the Principal, necessary corrective action as it may deem fit, to ensure avoidance of recurrence of similar grievance.

Anti-Ragging Committees:

With reference to AICTE (Prevention and Prohibition of ragging in Technical Education, Universities including Deemed to be Universities imparting technical education) Regulations 2009 and as per as per the clause No.6(a) of this AICTE Regulations - 2009, Anti-Ragging Committee is formed comprising of experts, faculty members, parents, students, etc. to look into any kind of ragging matter reported to them from time to time. The Committee takes immediate action in the matter reported to them, following all the guidelines given in the referred AICTE Regulation - 2009. The Committee also take review of the activities of Anti-Ragging Squad and suggest measures to effectively monitor the anti-ragging activities.

Anti-Ragging Committee for The academic year 2023-24

S. No	Name of the Member	Designation	Position
1	Dr. D Ramana Reddy	Principal	Chairperson
2	Mrs. S. Mubeen Taj	Sub- Inspector	Mudivedu, Police Station.
3	Mr .M. Bheemeswara Rao	Mandal Revenue Officer	MRO

			office ,Kurabalakota.
4	Mr Kodandareddy	Press Reporter	Media Member
5	Mr. Syed Mohammed	Assistant Professor in Mechanical Department	Member
6	Mrs. Y Basanthi	Assistant Professor in Computer Engineering	Member
7	S.Sreenivasulu	Parent Representative	Member
8	Dr C H Kalyani	HOD (H&S)	Member
9	D.Pavan kumar Reddy,	III-year CSE,	Student Member

Table No. 10.1.10 Members of anti-ragging committee

ANTI RAGGING COMMITTEE (SQUAD)

- With reference to AICTE (Prevention and Prohibition of ragging in Technical Education, Universities including Deemed to be Universities imparting technical education) Regulations 2009 and as per as per the clause No.6(a) of this AICTE Regulations - 2009, Anti-ragging Squad is formed to look in to the matters of ragging.
- The squad will continuously maintain vigil in the College campus and monitor the activities of the students. If any activity of students is found suspicious then immediate action is to be taken. The squad will conduct patrolling of canteen area, parking area, the College building and Ladies hostel. The patrolling of outside area near to College will also be done.
- The students can contact Committee members at any time regarding any kind of problem faced by them from any students in the campus or outside the campus. Also, students can personally meet any of the above members in the College during working hours.

S. No	Name of the Member	Designation	Position
1	Dr. D Ramana Reddy	Principal	Chairperson
2	Dr.T Sreenivasulu Reddy	Professor (HOD) in H&S	Coordinator
3	Dr.B Sankar naik	Professor (HOD) in MBA	Member
4	Mrs. T Reddi Rani	Associate Professor in ECE	Member
5	Mr. V R Ramakrishna	Associate Professor in MBA	Member
6	Mrs. B Jyothsna	Associate Professor, Computer Engineering	Member
7	Mr R.Rajkumar	Assistant Professor, Civil Engineering	Member
8	Mr.B Bhaskar	Physical Director	Member

Table No. 10.1.11 Members of anti-ragging squad

Sexual Harassment Committee

S.No	Faculty Name and Designation	Position
1	Mrs. N RAJANI, Assistant Professor in MBA	Coordinator
2	Mrs. B JYOTHSNA, Assistant Professor in Computer Engineering	Member
3	Mr N Anjaneya Reddy, Librarian	Member
4	Dr.S Geethan Kumar, Associate Professor in H&S	Member
5	Mrs. K HARITHA, Assistant Professor In H&S	Member
6	Mrs .K VIJAYA LAKSHMI, Assistant Professor in MBA	Member

Table No. 10.1.12 Members of Sexual Harassment Committee

- The complaint received by Principal office from any ladies' staff members or student will be forwarded to the above committee. The said committee will look into the complaint and call the concerned complainant personally for hearing the grievance. The Chairman of the committee will forward their report in the sealed envelope to the Principal within one week from the date of receipt of complaint.

10.1.4 Delegation of financial Power. (10/10)

In accordance with the Institution Rules and the management has agreed to delegate the following financial powers to the Principal and Head of the Departments to facilitate them.

S.n o	Designatio n	Financial Power	Purpose
1	Principal	Rs 20,000/-	To purchase consumables, Stationery, Expenditure connected with the conduct of Seminars, Workshops and other petty contingent expenditure connected with academic activity
2	HOD	Rs 5,000/-	To purchase consumables and other petty contingent Expenditure

The Heads of the Department are given an amount of Rs 5,000 towards the purchase of consumables

and other petty contingent expenditure. After that amount is spent and bills are settled another

advance amount of Rs 5,000 will be given.

Note: For All Purchases above Rs. 20,000 must be with the approval of the Purchase Committee.

10.1.5 Transparency and availability of correct /unambiguous information in public domain (5/5)

1. Unambiguous information is displayed on all general notice boards including department notice boards, Center for information, training and placement cell (CITP), student section, library, and other

important areas.

2. Copies of official notices are circulated to the entire faculty, technical and non-technical staff and students.
3. The institute website is continuously updated for disseminating all the information about policies, students, faculty and relevant information.

Institute website is www.viswamengg.in.

10.2. Budget Allocation, Utilization, and Public Accounting at Institute level (30/30)

Total Income at Institute level: For CFY, CFYm1, CFYm2 & CFYm3

CFY: Current Financial Year, CFYm1 (Current Financial Year minus 1), CFYm2 (Current Financial Year minus 2) and CFYm3 (Current Financial Year minus 3)

CFY

FY 2023-2024							
Total Income: 67705950		Actual expenditure (till ...): 7,34,66,213					Total No. of students: -1313
Fee	Gov t	Gra nt (s)	Other Sources	Recurring including Salaries	Non- Recurring	special Projects/A ny other, specify	Expendit ure per student: -
658565 39	--	--	18,49,4 11	5,31,37,007	2,03,29,2 06	--	55,952

CFYm1

FY 2022-2023							
Total Income: 5,15,35,184		Actual expenditure (till 7,59,34,300)					Total No. of students: -1046
Fee	Govt	Grant (s)	Other Sources	Recurring including Salaries	Non-Recurring	special Projects/Any other, specify	Expenditure per student:-
4,97,93,110	--	--	17,42,074	3,84,08,846	3,75,25,454	--	72,595

CFYm2

FY 2021-2022							
Total Income: 52005122		Actual expenditure (till 6,01,41,570)					Total stude 1170
Fee	Govt	Grant (s)	Other Sources	Recurring including Salaries	Non-Recurring	Special Projects/Any other, specify	Expe p stu
5,14,94,417	--	--	5,10,705	2,71,75,697	3,29,65,873	--	51

CFYm3

FY 2020-2021							
Total Income:- 6,39,88,413		Actual expenditure (till 6,49,32,016					Total No. of students: -1339
Fee	Govt	Grant (s)	Other Sources	Recurring including Salaries	Non Recurring	Special Projects/ Any other, specify	Expenditure per student :-
6,24,63,713	--	--	15,24,700	2,59,76,937	3,89,55,079	--	48,493

Table B.10.2a

Items	2023-2024		2022-2023		2021-2022		2020-2021	
	Budgeted in 2023-24	Actual Expenses in 2023-24	Budgeted in 2022-23	Actual Expenses in 2022-23	Budgeted in 2021-22	Actual Expenses in 2021-22	Budgeted in 2020-21	Actual Expenses in 2020-21
Infrastructure Built-Up	75,00,000	55,95,037	85,00,000	67,37,444	40,00,000	36,16,019	70,00,000	58,87,220
Library	385000	2,34,000	240000	1,91,166	2,25000	1,87,560	1,26,500	98475
Laboratory Equipment	7,50,000	5,48,466	440000	37,23,589	500000	-	500000	-
Laboratory	7,50,000	5,52,600	600000	4,97,500	3,50000	2,86,100	300000	2,76,900

CRITERION -10	CSE- SAR							
Consumables	00	58	00	35	00	04	0	33
Teaching and non-teaching staff salary	5,50,000	4,11,49,920	3,85,00000	3,19,49,561	2,80,00000	2,34,10,245	2,90,00000	2,25,61,435
Maintenance and spares	20,00,000	15,24,175	22,00,000	19,06,278	9,750,00	8,14,259	90000,0	8,27,635
R &D	12,00,000	8,23,600	1200,000	11,32,985	10000,0	74,05,0	3,85,000	3,19,850
Training and Travel	18,00,000	14,78,521	4500,00	3,80,015	30000,0	2,59,212	20000,0	1,61,329
Miscellaneous us expenses	2,60,000	2,00,750	20000,0	1,72,000	20000,0	1,54,000	20000,0	1,67,000
Others recurring	95,00,000	83,20,558	50,00,000	44,54,704	30,00,000	28,88,307	26,00,000	24,21,608
Total	79145,000	60427,685	61290,000	51145,277	37650,000	31689,756	41211,500	32721,485

Table B.10.2b

*** Items to be mentioned.**

10.2.1 Adequacy of budget allocation (10/10)

Funds are adequately allocated to

1. For the various department activities.
2. For purchasing equipment for the laboratories for conducting experiments as per syllabus and beyond the syllabus.
3. For installing new laboratories
4. For the purchase of books, subscription of journals and other library requirements.
5. For conducting annual technical student functions, seminars, guest lectures, Workshops, games & sports, etc.

10.2.2 Utilization of allocated funds (15/15)

Each department HOD after receiving the approved budget convene a meeting and discuss the step by step procedure for procuring the equipment and consumables required for the department. Faculty who are in charge of the laboratories and course coordinators are nominated to involve in the purchase of equipment. The nominated faculty members identify the companies/ agencies to receive the quotations and then prepare a comparative statement. The comparative statement will be submitted to the purchase Committee to get approval from the management and then place orders to procure the items. The HoD periodically monitors the faculty members involved in the purchase and take necessary efforts to see that the purchase of items is complete in all respects.

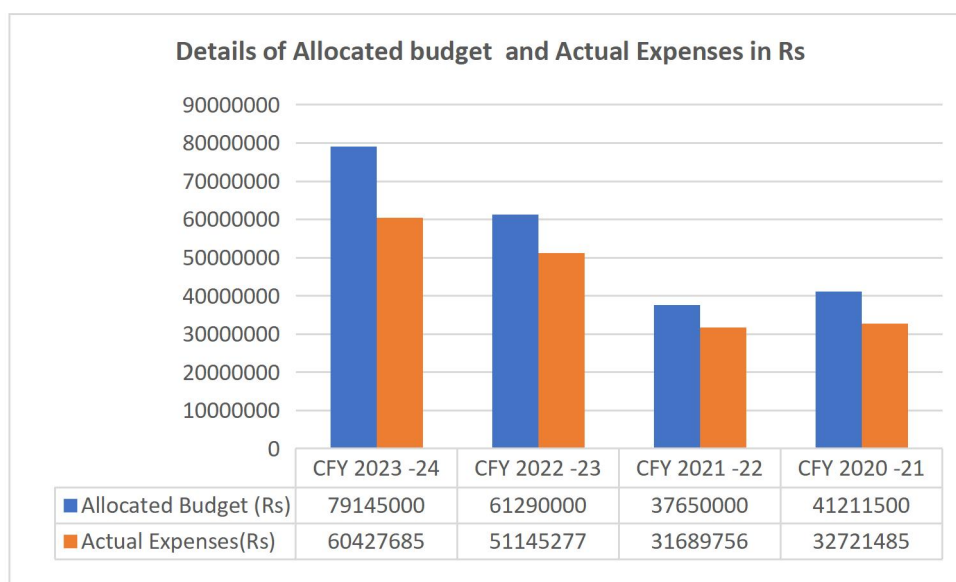


Fig.10.1.3 Allocated Budget and Actual expenses

10.2.3 Availability of the audited statements on the institute website (5/5)

(The institution needs to make audited statements available on its website)

Yes, Audit Statements are available in the institute website :- www.viswamengg.in

10.3. Program Specific Budget Allocation, Utilization (30/30)

Total Budget at program level: For CFY, CFY_{m1}, CFY_{m2} & CFY_{m3}

CFY: Current Financial Year, CFY_{m1} (Current Financial Year minus 1), CFY_{m2} (Current Financial Year minus 2) and CFY_{m3} (Current Financial Year minus 3).

For CFY

FY 2023-24				
Budgeted: Rs.1,98,00,000		Actual Expenses: Rs. 1,08,29,203		Total No. of students: 442
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
138,00,000	60,00,000	68,05,835	40,23,368	24,500

Note: Similar tables are to be prepared for CFYm1, CFYm2 & CFYm3.

For CFYm1

FY 2022-23				
Budgeted: Rs.1,86,000,00		Actual Expenses: Rs.1,69,46,150		Total No. of students: 403
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
1,60,00,000	26,00,000	1,44,57,625	24,88,525	42,050

For CFYm2

FY 2021-22				
Budgeted: Rs 1,45,00,000		Actual Expenses: Rs.1,27,76,951		Total No. of students: 407
Non-Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
1,30,00,000	15,00,000	1,14,67,225	13,09,726	31,393

For CFYm3

FY 2020-21				
Budgeted: Rs 1,30,00,000		Actual Expenses: Rs.1,19,36,575		Total No. of students: 379
Non- Recurring	Recurring	Non-Recurring	Recurring	Expenditure per student
1,20,00,000	10,00,000	1,10,25,868	9,10,707	31,494

Table B.10.3a

Items	2023-2024		2022-2023		2021-2022		2021-2020	
	Budgeted in 2023- 24	Actual Expenses in 2023- 24	Budgeted in 2022- 23	Actual Expenses in 2022- 23	Budgeted in 2021- 22	Actual Expenses in 2021- 22	Budgeted in 2021- 20	Actual Expenses in 2021- 20
Laboratory Equipment	25000 0	21129 0	3500 000	33310 09	1000 00	-	1000 00	-
Software	10000 00	84862 3	2000 00	64745	2000 00	-	2000 00	-
Laboratory Consumables	8000 0	74959	20000 0	1507 04	1000 00	9952 5	1000 00	8121 5
Maintenance and spares	5500 00	51308 8	7500 00	7344 45	3500 00	2832 50	2500 00	2342 60
R &D	5000 00	48994 0	4000 00	3959 85	8000 0	6600 0	1500 00	1200 00
Training and Travel	5000 00	49769 2	15000 0	1464 10	1200 00	9017 0	5000 0	4566 3
Miscellaneous	8000	67578	70000	6626	6000	5357	5000	4726

CRITERION -10	CSE- SAR							
expenses *	0			7	0	0	0	8
Total	29600 00	27031 70	52700 00	48895 65	1010 000	5925 15	90000 0	5284 06

Table B.10.3b

*** Items to be mentioned.**

10.3.1 Adequacy of budget allocation (10/10)

Funds are adequately allocated to the department

1. For various departmental activities.
2. For the purchase of books, subscription of journals and other library requirements.
3. For installing new labs and procuring softwares
4. For purchasing equipment for labs for conducting experiments as per syllabus and beyond the syllabus.
5. For conducting Annual Technical Student Functions, Seminars, Guest Lectures, Workshops ,etc.

10.3.2. Utilization of allocated funds (20/20)

Based on the number of students and the fee fixation the income increases, accordingly the budget allocation is done. The budget allocation is adequate as it is distributed based on the number of students in the department. The budget allocation is also done based on the proposals submitted by the respective department heads as well as committee conveners. The proposed budget which is submitted to the governing body is approved and accordingly utilized.

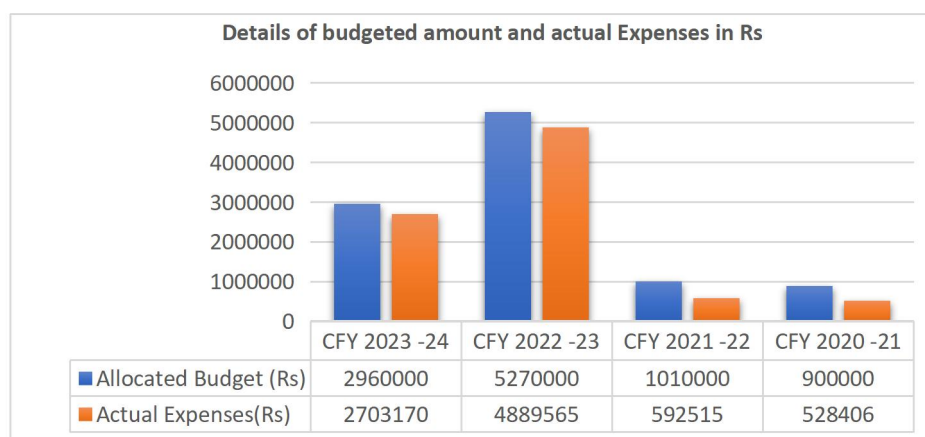


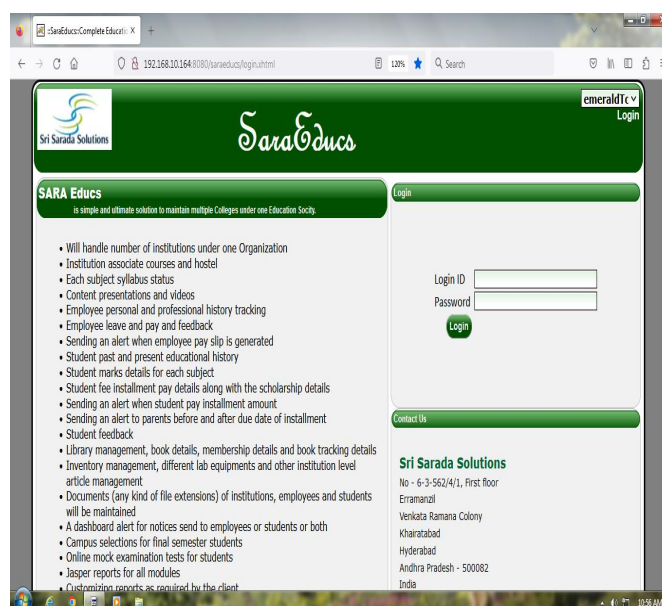
Fig.10.1.4 Allocated Budgeted and Actual expenses

10.4. Library and Internet (20/20)

10.4.1 Quality of learning resources (10/10)

The Learning Resource Center, the Central Library of Viswam Engineering College with its state-of-the art facilities and excellent resources plays proactive role in providing excellent user services, optimal use of resources supporting quality enhancement in teaching-learning, research and extension. keeping pace with the developments in the ICTs, Institute library works as a digitized knowledge Center for accessibility with print and e-resources and provides focused services to the students and faculty. The Library has significant

collection of books, journals, e-books, e-journals, secondary sources, databases, digital primary sources. Integrated **Sara Educa** is used to manage different functions of library for improving accessibility to students. Institute Central Library is using commercial software as well as Open Source software for Automation of Library Services. With **Sara Educa** retrieval of information becomes easy and even a catchy phrase in the description of the catalogued item can be used for searching. **Sara Educa** supports flexible workflow to cover activities related to acquisition of books, serials control, and funds monitoring. Relevance of available learning resources including e-resources



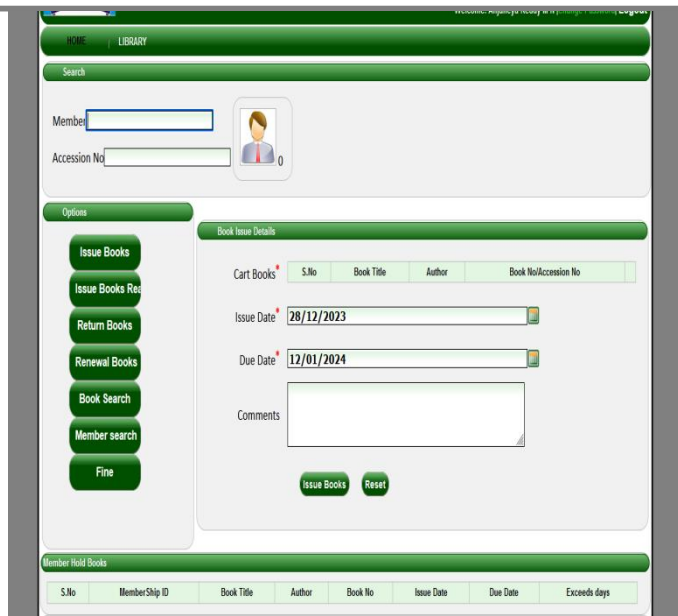


Figure 10.1.5: Sara Educa Software Screenshots

With the growing popularity of e-resources, library is gradually migrating from print documents to e- resources. Qualified and experienced staff plays important role in providing easily accessible and cost-effective information services. Institute library has subscribed / implemented learning and e-learning resources as shown in below tables.

Learning Resources	Number of resources
Books	27954
e- Journals	555
Titles/ e-Books	1807
List of print journals/Magazine	35 & 9
List of Newspapers	4
CD/DVD	513

Table 10.1.13 Learning resources available in Library

Year	No of New Titles added	No of new Editions added	No of new volumes added	Expenditure in Rs
CFY- 2023-24	75	35	612	189956
CFYm1- 2022-23	87	18	483	191161
CFYm2- 2021-22	73	14	535	172810
CFYm3- 2020-21	-	-	-	-

Table 10.1.14 Expenditure in last three years on learning resources

Year	Name of the e- Journals with Number	Expenditure in Rs
CFY- 2023-24	Knimbus	9545
CFYm1- 2022-23	-	-
CFYm2- 2021-22	Taylor and Francis & J-GET(555)	14750
CFYm3- 2020-21	Taylor and Francis and JGET(555)-	98002

Table 10.1.15 Expenditure in last three years on E-Journals Subscription
Institute Library has made the following online resources available to the staff and students.

VISWAM E-Resource	Contents
Digital Library	555 e-Journals
Access Engineering	35 e- journals/ e- Books Access
DELNET	Purchased Membership
Knimbus	e-Journal

Table 10.1.16 Various online resources available in Viswam Engineering College Library

For the easy access, all the online resources are subscribed as IP Based access subscription. This helps users to access any resource from any computer connected in the Viswam Engineering Campus LAN and also through Wi-Fi enabled devices. This helps users for searching multiple database at a stretch.

Library user tracking students and faculty

Library user tracking for students and faculty is done through ERP system. Daily visit to library reports can be download through ERP system

S.No	Institution Name	Book Details	Member Details	Transaction User	Transaction ID's	Transaction Date's	Due Date	Status	Exceed Days	fine	fine status
1	Sir Vishveshwaraiah Institute of Science And Technology	TEXT BOOK OF ENGINEERING MATHEMATICS T. K. V. IYENGAR & B. KRISHNA, Mathematics 43 C Programming and	GEETHAN KUMAR S(9016719181) Employee	han	SVIST:Issue /89563 /89563/2023 SVIST:Return /89563 /89563/2023 SVIST:Issue	25/09/2023 13/12/2023	25/10/2024	Return		0.0	Unpaid

S.No	Institution Name	Book Details	Member Details	Transaction User	Transaction ID's	Transaction Date's	Due Date	Status	Exceed Days	fine	fine status
2	Sri Vishveshwarai Institute of Science And Technology	C Programming and Data Structure Balagurusamy E Computer Science and Engineering 193	K Vijaya lakshmi kadem(8011022101)	anj	SVST/Issue /8963/2023 SVST/Return /8963/2023	05/09/2023 26/11/2023	27/09/2024	Return	0.0	0.0	Unpaid
3	Sri Vishveshwarai Institute of Science And Technology	C Programming Language Kempiah W Bran, Ritchie M Denis Computer Science and Engineering 1768	Geethani Kumari G S(6011022101)	han	SVST/Issue /8965/2023 SVST/Return /8965/2023	22/09/2023 26/12/2023	25/10/2024	Return	0.0	0.0	Unpaid
4	Sri Vishveshwarai Institute of Science And Technology	Signals and Systems Oppenheim V Alan, Wilsky S Alan, Electronics and communications Engineering 1794	shaik priod shaik (22W51A0425)	anj	SVST/Issue /8963/2023 SVST/Return /8963/2023	09/12/2023 20/12/2023	23/12/2023	Return	5	0.0	Unpaid
5	Sri Vishveshwarai Institute of Science And Technology	Microelectronic Circuits Sedra S Adel, Smith C Kenneth Electronics and communications Engineering 2167	VENKATRAMANA REDDY BALAM DQJVAIATHUJ4010513101	anj	SVST/Issue /8964/2023 SVST/Return /8964/2023	25/09/2023 27/12/2023	25/10/2024	Return	0.0	0.0	Unpaid
6	Sri Vishveshwarai Institute of Science And Technology	Marketing Management Savana Rajan MBA 100002	TEJASWINI Y3010317101	anj	SVST/Issue /8962/2023	15/12/2023	27/12/2024	Issue	0.0	0.0	Unpaid
7	Sri Vishveshwarai Institute of Science And Technology	Human Resource Management petaballa manivaharee pedaballa (22W51E0094)	petaballa manivaharee pedaballa (22W51E0094)	anj	SVST/Issue /8967/2023 SVST/Return /8967/2023	01/11/2023 14/11/2023	16/11/2023	Return	42	0.0	Unpaid
8	Sri Vishveshwarai Institute of Science And Technology	Human Resource Management Gary Dessley, Biju Varkkey	jakam mamatha jakam (22W51E0053)	han	SVST/Issue /8966/2023 SVST/Return	02/11/2023 16/11/2023	17/11/2023	Return	41	0.0	Unpaid
11	Sri Vishveshwarai Institute of Science And Technology	Human Resource Planning Dipak kumar, Bhattacharyya MBA 100366	pillagolla nayya pillagolla (22W51E0095)	anj	SVST/Issue /89611/2023 SVST/Return /89611/2023	03/11/2023 21/11/2023	18/11/2023	Return	40	3.0	Unpaid
12	Sri Vishveshwarai Institute of Science And Technology	Financial Management Theory and Practice Prasanna Chandra MBA 100468	kotkolla aswini kotkolla (22W51E0067)	anj	SVST/Issue /89618/2023 SVST/Return /89618/2023	21/11/2023 21/11/2023	06/12/2023	Return	22	0.0	Unpaid
13	Sri Vishveshwarai Institute of Science And Technology	Communication Systems Haykin Simon	VENKATRAMANA REDDY BALAM DQJVAIATHUJ4010513101	anj	SVST/Issue /89667/2023	27/12/2023	31/01/2025	Issue	0.0	0.0	Unpaid
14	Sri Vishveshwarai Institute of Science And Technology	Organizational Behavior Robbins P Stephen	M REDDI RAMU MADAKA MASAKA(801022101)	anj	SVST/Issue /89666/2023	19/12/2023	03/01/2024	Issue	0.0	0.0	Unpaid
15	Sri Vishveshwarai Institute of Science And Technology	Training For Development Rolf P Lynton, Udale	battala bhagya lakshmi battala (22W51E0013)	han	SVST/Issue /89610/2023 SVST/Return /89610/2023	02/11/2023 21/11/2023	17/11/2023	Return	41	4.0	Unpaid
16	Sri Vishveshwarai Institute of Science And Technology	Performance Appraisal and Management Davendra sharma MBA 101205	syed mohammed ulinder syed (22W51E0087)	anj	SVST/Issue /89621/2023 SVST/Return /89621/2023	27/11/2023 06/12/2023	12/12/2023	Return	16	0.0	Unpaid

Figure 10.1.6: Library user tracking system

24/11/2023

G.S. Geethani, Kumari	CSE	2:10		
Espai	MBA	12:00	12:50	
Adhulalada	B.S.A	2:00	3:20	
M. Harshitha	MBA	2:48	4:20	
G. Deepika	CSE	2:00	4:20	
V. Harshitha	CSE	2:20	4:20	
V. Harshitha	CSE	2:20	4:20	
M. Anuradha	CSE	1:55	3:35	
A. Deepika	CSE	2:20		
K. Vijaya Lakshmi	MBA	12:00	12:50	
G.S. Geethani, Kumari	CSE	2:07	2:15	
Dr. P. Vasanthakumari	CSE			
N. Anura	CSE			
M.S. Anuradha	CSE			
M.S. Anuradha	CSE	10:00 AM	10:30 AM	

25/11/2023

K. Vijaya Lakshmi	CSE	9:20	10:10	
D. Sanjaya Reddy	CSE	10:00	11:20	
N. Rajan	MBA	10:30	11:30	
Dr. S. Anuradha	B.S.A	10:30	11:20	
D. Ravi	MBA	10:30	11:30	
D. Suresh	B.S.A	10:45	11:20	
Dr. P. Vasanthakumari	CSE	10:30	11:30	
Dr. P. Vasanthakumari	CSE	11:12	11:26	
K.R. Gayathri	MBA	11:30	11:45	
K. Nitya Lakshmi	MBA	11:30	11:50	
R. Suresh Babu	B.S.A	11:35	12:00	
R. Jaya Krishna	MBA	12:00	12:30	
K. Suresh Babu	CSE	12:10	12:12:40	
G.S. Geethani, Kumari	CSE	12:10	12:30	
M. Anuradha	CSE	12:30	1:30	

24/11/2023

E. Maheswari	Civil	12:45	1:00 PM	
S. H.	MBA	1:00	1:30 PM	
C. Pravalika	CSE	1:05	1:30 PM	
V. Harshitha	CSE	2:00	3:15	
Y. Harshitha	CSE	2:00	12:40	
M. Harshitha	MBA	12:00	12:35	
M. Suresh	MBA	12:00	12:30	
B. Anuradha	B.S.A	2:20	2:00	
R. Rajkumar	Civil	3:00	3:45	
R. Venkatesh	MBA	3:15	3:30	

26/11/2023

B. Jayashree	CSE	9:30	10:00	
S. Anuradha	CSE	9:40	10:10	
Dr. S. Anuradha	B.S.A	9:50	10:20	
B. Karthi	CSE	10:00	10:30	
M. Anuradha	B.S.A	11:00	11:30	
B. Venkatesh Babu	B.S.A	11:00	11:20	
R. Reddy Harshitha	CSE	11:30	12:00	
S. Anuradha	MBA	12:40	13:00	
M. Anuradha	CSE	12:00	12:40	
D. Suresh Babu	MBA	12:05	12:15	
S. Anuradha	MBA	12:15	12:45	
K. Harshitha	MBA	12:20	12:50	
C. Maheswari	CSE	1:00 PM	1:30 PM	
G.M. Anuradha	CSE	2:30 PM	3:00 PM	
S. Anuradha	Civil	3:00 PM	3:45 PM	
N. Anuradha	CSE	3:00 PM	3:45 PM	
P. Anuradha	CSE	3:45 PM	4:15 PM	
T. Suresh Babu	CSE	4:00 PM	4:30 PM	

Figure 10.1.7 Faculty Library Access Register

Sl. No.	Name	Date	Time	Signature
6.	S. Prasad Deshpande	10/08	11:00	S. Prasad
7.	P. Vyshtnani	"	"	P. Vyshtnani
8.	U. Suresh Babu	"	"	U. Suresh Babu
9.	P. Bhargava Prakash	"	"	P. Bhargava Prakash
10.	Syed Raza	"	"	Syed Raza
11.	H. Prasad	"	"	H. Prasad
12.	S. Dilip Kumar Reddy	"	"	S. Dilip Kumar Reddy
13.	S. Prasad	"	"	S. Prasad
14.	V. Anand Kumar Reddy	"	"	V. Anand Kumar Reddy
15.	V. Teja	"	"	V. Teja
16.	V. Teja	"	"	V. Teja
17.	S. Sameer Vello	"	"	S. Sameer Vello
18.	P. Saijanakshi	"	"	P. Saijanakshi
19.	S. Mohan Kumar	"	"	S. Mohan Kumar
20.	S. K. Lakshmi	"	"	S. K. Lakshmi
21.	P. Lakshmi Devi	9/24/9	"	P. Lakshmi Devi
22.	M. Prasad	"	"	M. Prasad
23.	M. Prasad	"	"	M. Prasad
24.	D. Lakshmi	10/10	"	D. Lakshmi
25.	J. Lakshmi	12/10	12:50	J. Lakshmi
26.	M. Lakshmi	12/10	12:50	M. Lakshmi
27.	P. Chinnappa Reddy	12/10	"	P. Chinnappa Reddy
28.	M. Prasad Prasad	12/10	12:50	M. Prasad Prasad
29.	V. Lakshmi Babu	12/10	12:50	V. Lakshmi Babu
30.	S. Lakshmi	12/10	12:50	S. Lakshmi
31.	K. Lakshmi	12/10	12:50	K. Lakshmi
32.	M. Dhara Lakshmi	12/10	12:50	M. Dhara Lakshmi
33.	Syed. Aftab Taj	12/10	12:50	Syed. Aftab Taj
34.	B. Lavanya	12/10	12:50	B. Lavanya
35.	C. Reddy Prasanna	12/10	12:50	C. Reddy Prasanna

Figure 10.1.8 Student Library Access Register

Support to students for self-learning

Institute Library supports students for self-learning activities by creating and making available various platforms for learning. Following resources are accessible to the students:

- 3000 + NPTEL Videos
- 100+ Subjects NPTEL Text Content
- 1500+ E-Books
- Access to previous year question papers

Digital library has been established by library for the effective use of these self-learning resources. Additional facilities created in the library for improving accessibility and support to students for self-learning are as follows

- Wi-Fi accessible across the Library.
- Library e-resources Remote Access (off-campus access) through Knimbus remote access platform.
- Print, Scan Services.
- Access to previous year question papers and syllabus

10.4.2 Internet (10/10)

Name of the Internet Provider	BSNL
Available Bandwidth	120MBPS
WiFi Availability	Yes
Internet access in labs, classrooms, library, offices of all departments	Internet available in all the Labs, Classrooms, Library, office of all department and administrative office
Security arrangements	Password Protected