



NRI Institute of Technology Guntur

Computer Science and Engineering

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Part A : Institutional Information

1 Name and Address of the Institution

NRI Institute of Technology Guntur,
Visadala X Road, Medikonduru(M), Guntur (Dist), Andhra Pradesh 522438

2 Name and Address of Affiliating University

JNTUK Kakinada

3 Year of establishment of the Institution:

2008

4 Type of the Institution:

<input type="checkbox"/> University	<input checked="" type="checkbox"/> Autonomous
<input type="checkbox"/> Deemed University	<input type="checkbox"/> Affiliated
<input type="checkbox"/> Government Aided	

5 Ownership Status:

<input type="checkbox"/> Central Government	<input type="checkbox"/> Trust
<input type="checkbox"/> State Government	<input checked="" type="checkbox"/> Society
<input type="checkbox"/> Government Aided	<input type="checkbox"/> Section 25 Company
<input checked="" type="checkbox"/> Self financing	<input type="checkbox"/> Any Other(Please Specify)

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

Name of Institutions	Year of Establishment	Programs of Study	Location
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7 Details of all the programs being offered by the institution under consideration:

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Computer Science and Engineering	PG	2012	2012	18	Yes	36	Eligible but not applied	--	--	No	2
Sanctioned Intake for Last Five Years for the Computer Science and Engineering											
Academic Year				Sanctioned Intake							
2024-25					36						
2023-24					18						
2022-23					18						
2021-22					18						
2020-21					36						
2019-20					36						
2018-19					36						
Computer Science and Engineering	UG	2008	2008	60	Yes	360	Not accredited (specify visit dates, year)	09/08/2019	11/08/2019	Yes	4
Sanctioned Intake for Last Five Years for the Computer Science and Engineering											
Academic Year				Sanctioned Intake							
2024-25					360						
2023-24					150						
2022-23					150						
2021-22					120						
2020-21					120						
2019-20					120						
2018-19					120						
Electronics and communications Engineering	UG	2008	2008	60	Yes	180	Not accredited (specify visit dates, year)	09/08/2019	11/08/2019	No	4
Sanctioned Intake for Last Five Years for the Electronics and communications Engineering											
Academic Year				Sanctioned Intake							
2024-25					180						
2023-24					120						
2022-23					120						
2021-22					180						
2020-21					180						
2019-20					180						
Civil Engineering	UG	2009	2009	60	Yes	30	Not accredited (specify visit dates, year)	09/08/2019	11/08/2019	0	4
Sanctioned Intake for Last Five Years for the Civil Engineering											
Academic Year				Sanctioned Intake							
2024-25					30						
2023-24					30						
2022-23					30						
2021-22					60						
2020-21					120						
2019-20					120						
Computer Science and Engineering (Data Science)	UG	2020	2020	60	Yes	180	Applying first time	--	--	0	4

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Sanctioned Intake for Last Five Years for the Computer Science and Engineering (Data Science)											
Academic Year				Sanctioned Intake							
2024-25				180							
2023-24				180							
2022-23				180							
2021-22				120							
2020-21				60							
2019-20				0							
Information Technology	UG	2008	2008	60	Yes	120	Applying first time	--	--	0	4
Sanctioned Intake for Last Five Years for the Information Technology											
Academic Year				Sanctioned Intake							
2024-25				120							
2023-24				60							
2022-23				60							
2021-22				60							
2020-21				60							
2019-20				0							
Artificial Intelligence and Machine Learning	UG	2021	2021	60	Yes	120	Not eligible for accreditation	--	--	0	4
Sanctioned Intake for Last Five Years for the Artificial Intelligence and Machine Learning											
Academic Year				Sanctioned Intake							
2024-25				120							
2023-24				60							
2022-23				60							
2021-22				60							
2020-21				0							
2019-20				0							
Electronics VLSI Technology	UG	2023	2023	60	No	60	Not eligible for accreditation	--	--	0	4
ECE (Digital Electronics and Communication systems)	PG	2012	2012	18	No	18	Eligible but not applied	--	--	0	2
Civil Engineering (Structural Engineering)	PG	2013	2013	18	No	18	Eligible but not applied	--	--	0	2
Master of Business Administration	PG	2010	2010	60	Yes	120	Eligible but not applied	--	--	0	2
Sanctioned Intake for Last Five Years for the Master of Business Administration											
Academic Year				Sanctioned Intake							
2024-25				120							
2023-24				60							
2022-23				120							
2021-22				120							
2020-21				120							
2019-20				120							
Master of Computer Applications	PG	2023	2023	120	Yes	180	Not eligible for accreditation	--	--	0	2

Name of Program	Program Applied level	Start of year	Year of AICTE approval	Initial Intake	Intake Increase	Current Intake	Accreditation status	From	To	Program for consideration	Program for Duration
Sanctioned Intake for Last Five Years for the Master of Computer Applications											
Academic Year						Sanctioned Intake					
2024-25				180							
2023-24				120							
2022-23				0							
2021-22				0							
2020-21				0							
2019-20				0							

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Computer Science and Engineering
2	Under Graduate	Engineering & Technology	Electronics & Communication Engineering
3	Under Graduate	Engineering & Technology	Information Technology
4	Under Graduate	Engineering & Technology	Computer Science and Engineering (Data Science)

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

Items	2024-25		2023-24		2022-23	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	81	81	88	88	80	80
Faculty in Engineering (Female)	90	90	77	77	89	89
Faculty in Maths, Science & Humanities (Male)	24	24	11	11	12	12
Faculty in Maths, Science & Humanities (FeMale)	30	30	19	19	18	18
Non-teaching staff (Male)	40	40	38	38	37	37
Non-teaching staff (FeMale)	29	29	28	28	29	29

B. Contractual* Employees (Faculty and Staff):

Items	2024-25		2023-24		2022-23	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Engineering (Male)	0	0	0	0	0	0
Faculty in Engineering (Female)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (Male)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities (FeMale)	0	0	0	0	0	0
Non-teaching staff (Male)	0	0	0	0	0	0
Non-teaching staff (FeMale)	0	0	0	0	0	0

10 Total number of Engineering Students:

Engineering and Technology- UG	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Engineering and Technology- PG	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
Engineering and Technology- Polytechnic	<input type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
MBA	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2
MCA	<input checked="" type="checkbox"/> Shift1	<input type="checkbox"/> Shift2

Engineering and Technology- UG Shift-1

Items	2024-25	2023-24	2022-23
Total no. of Boys	1802	1496	1163
Total no. of Girls	995	779	663
Total	2797	2275	1826

Engineering and Technology- PG Shift-1

Items	2024-25	2023-24	2022-23
Total no. of Boys	41	17	5
Total no. of Girls	33	16	11
Total	74	33	16

Engineering and Technology- MBA Shift-1

Items	2024-25	2023-24	2022-23
Total no. of Boys	106	72	48
Total no. of Girls	46	43	58
Total	152	115	106

Engineering and Technology- MCA Shift-1

Items	2024-25	2023-24	2022-23
Total no. of Boys	114	71	0
Total no. of Girls	98	61	0
Total	212	132	0

11 Vision of the Institution:

To become reputed institution of Engineering & Management programs, Producing competitive, ethical & socially responsible professionals.

12 Mission of the Institution:

IM1: Provide quality education through best teaching and learning practices of committed staff.

IM2: Establish a continuous interaction, participation and collaboration with industry to provide solutions.

IM3: Provide the facilities that motivate/encourage faculty and students in research and development activities.

IM4: Develop human values, professional ethics and interpersonal skills amongst the individuals.

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

Head of the Institution	
Name	Dr Dola Sanjay S
Designation	Professor and Principal
Mobile No.	9701037149
Email ID	nriit.guntur@gmail.com

NBA Coordinator, If Designated

Name	Dr K Srihari Rao
Designation	Vice Principal
Mobile No.	9246400540
Email ID	hr.nriit@gmail.com

PART B: Criteria Summary

Criteria No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	60	60.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	120	120.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	120	120.00
4	STUDENTS' PERFORMANCE	150	132.09
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	195.82
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	50	50.00
8	FIRST YEAR ACADEMICS	50	46.02
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	1000	974

Part B

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

Total Marks 60.00

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

Total Marks 5.00

Institute Marks : 5.00

Vision of the institute	To become reputed institution of Engineering & Management programs, Producing competitive, ethical & socially responsible professionals.										
Mission of the institute	<p>IM1: Provide quality education through best teaching and learning practices of committed staff.</p> <p>IM2: Establish a continuous interaction, participation and collaboration with industry to provide solutions.</p> <p>IM3: Provide the facilities that motivate/encourage faculty and students in research and development activities.</p> <p>IM4: Develop human values, professional ethics and interpersonal skills amongst the individuals.</p>										
Vision of the Department	To develop globally competent and ethically guided Computer Science professionals, excelling in technological leadership, research-driven innovation, and transformative contributions to society.										
Mission of the Department	<table border="1"> <thead> <tr> <th>Mission No.</th><th>Mission Statements</th></tr> </thead> <tbody> <tr> <td>M1</td><td>Facilitate transformative foundations in computing, software engineering, and real-world experience.</td></tr> <tr> <td>M2</td><td>Drive innovation and leadership through industry-academia collaborations.</td></tr> <tr> <td>M3</td><td>Provide advanced infrastructure and mentorship for research and entrepreneurship.</td></tr> <tr> <td>M4</td><td>Foster ethics, teamwork, sustainability, and lifelong learning.</td></tr> </tbody> </table>	Mission No.	Mission Statements	M1	Facilitate transformative foundations in computing, software engineering, and real-world experience.	M2	Drive innovation and leadership through industry-academia collaborations.	M3	Provide advanced infrastructure and mentorship for research and entrepreneurship.	M4	Foster ethics, teamwork, sustainability, and lifelong learning.
Mission No.	Mission Statements										
M1	Facilitate transformative foundations in computing, software engineering, and real-world experience.										
M2	Drive innovation and leadership through industry-academia collaborations.										
M3	Provide advanced infrastructure and mentorship for research and entrepreneurship.										
M4	Foster ethics, teamwork, sustainability, and lifelong learning.										

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

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	Graduates will establish strong foundations in computer science and software engineering for professional success and adaptability
PEO2	Graduates will demonstrate ethics, leadership, teamwork, and communication in multidisciplinary environments
PEO3	Graduates will pursue higher studies, research, entrepreneurship, and lifelong learning to contribute to technology and society
PEO4	Graduates will apply modern tools, analytical reasoning, and problem-solving skills to design sustainable, socially responsible solutions

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

Total Marks 10.00

The Vision, Mission and PEOs are published, displayed and disseminated among various stakeholders to ensure awareness. The stakeholders include parents, faculty, Governing body members, students, employers, industry experts, alumni etc.

The Vision and Mission of the Institute are

Published in:

- Institute Website - <https://www.nriit.ac.in>
- Admission Brochure
- Placement Brochure
- Faculty Development Program Brochure
- Institute Magazine

Disseminated through:

- First-Year Orientation Session
- Faculty Meetings
- Workshops
- Guest Lectures
- Alumni Meetings

Displayed at:

- Principal's Chamber
- Board Room
- HODs Chamber
- Administration Office
- Central Library
- Computer Center
- Seminar hall
- Training and Placement Cell
- Corridors
- Examination Cell
- Physical Education Center
- Waiting Hall
- Notice Boards
- Canteen

The Vision, Mission and PEOs of the Department are

Published in:

- Institute website-Department home page (<https://www.nriit.ac.in/cse.html>)
- Department Magazines
- Laboratory Manuals
- Laboratory Records
- Event Brochures

Disseminated through:

- Faculty Orientation program
- Faculty Development program
- First year orientation Sessions
- Department Faculty Meetings
- Workshops
- Guest lecturers
- Parent Teachers Meeting
- Alumni Meetings



Displayed at:

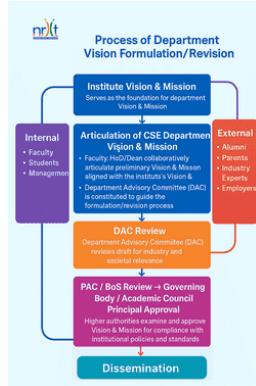
- HODs Chamber
 - Staff Rooms
 - Department Notice Boards
 - Department Library
 - Department Laboratories
 - Classrooms
 - Corridors
-

1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (25)

Total Marks 25.00

Process for defining the Department Vision & Mission Formulation/Revision

Department of Computer Science and Engineering defined its **Vision and Mission** by involving all the stakeholders. The stakeholders include parents, faculty, students, employers, industry experts, alumni etc



The process for defining the **Department Vision & Mission Formulation/Revision** is as follows.

Step 1: The process begins with the Institute Vision and Mission, which provide the foundation

Step 2: Based on this foundation, the HoD/Dean along with Faculty collaboratively draft the preliminary Department Vision and Mission in alignment with the institute. A Department Advisory Committee (DAC) is constituted to guide this formulation.

Step 3: Stakeholder inputs are then collected from: Internal: Faculty, Students, Management. External: Alumni, Parents, Industry Experts, Employers.

Step 4: The draft is subjected to review by the DAC (industry & societal relevance) and by the PAC/BOS/IQAC (quality, policies, continuous improvement).

Step 5: The revised draft is forwarded to the Principal or Governing Body for final approval, ensuring compliance with institutional policies.

Step 6: After approval, the Department Vision and Mission are finalized.

Step 7: Finally, the Vision and Mission are published and disseminated to all stakeholders.

Process for defining the PEOs of the Program

Department of Computer Science and Engineering defined its **Program Educational Objectives (PEOs)** by involving all the stakeholders. The stakeholders include parents, faculty, students, employers, industry, alumni etc.



The process for defining the Program Educational Objectives adopts the following sequence of steps.

Step 1: HoD/Dean establishes a Department Advisory Committee (DAC) comprising eminent faculty, alumni, and industry leaders, to develop Program Educational Objectives that align with the Vision and Mission of Institute and Department

Step 2: The HoD/Dean initiates the process of articulating the PEOs.

Step 3: Stakeholder inputs are collected from: Internal: Faculty, Students, Management. External: Alumni, Parents, Industry Experts, Employers.

Step 4: The faculty, under the guidance of the HoD/Dean, draft the initial PEOs based on the collected inputs.

Step 5: The draft PEOs are circulated among stakeholders for feedback.

Step 6: The draft is revised to incorporate relevant suggestions and improvements.

Step 7: The refined draft undergoes an approval process that includes: Review by the DAC for industry and societal relevance. Validation by the PAC/IQAC for quality and policy compliance. Final approval by the Board of Studies (BoS).

Step 8: Once approved, the PEOs are finalized. Step 9: Finally, the approved PEOs are disseminated to all stakeholders.

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

Total Marks 15.00

Institute Marks : 15.00

PEO – Mission Mapping Matrix with Rationale

PEO Statement	M1	M2	M3	M4	Rationale (Justification)
PEO1: Graduates will possess strong fundamental knowledge and practical skills in computer science and software engineering to excel in professional careers	3	2	3	1	Strong knowledge & skills → High with M1 & M3, Moderate with M2 & M4
PEO2: Graduates will demonstrate professional ethics, leadership, and teamwork in multidisciplinary projects and organizational settings	2	3	2	2	Ethics & leadership → High with M2, Moderate with M1, M3, M4
PEO3: Graduates will engage in lifelong learning, research, and innovation to contribute effectively to technological and societal advancement	2	3	3	3	Lifelong learning & innovation → High with M2, M3, M4; Low with M1
PEO4: Graduates will apply problem-solving skills and modern computing techniques to address real-world challenges responsibly	3	3	3	2	Problem-solving & modern computing → High with M3, Moderate with M1, M2, M4

PEO Statements	M1	M2	M3	M4
Graduates will establish strong foundations in computer science and software engineering for professional success and adaptability	3	2	3	1
Graduates will demonstrate ethics, leadership, teamwork, and communication in multidisciplinary environments	2	3	2	2
Graduates will pursue higher studies, research, entrepreneurship, and lifelong learning to contribute to technology and society	2	3	3	3
Graduates will apply modern tools, analytical reasoning, and problem-solving skills to design sustainable, socially responsible solutions	3	3	3	2

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120)

Total Marks 120.00

2.1 Program Curriculum (20)

Total Marks 20.00

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 AnnexureI. Also mention the identified curricular gaps, if any
(10)

Institute Marks : 10.00

NRI Institute of Technology is affiliated to Jawaharlal Nehru Technological University, Kakinada (JNTUK). The institution's curriculum meticulously designed in alignment with the All India Council for Technical Education (AICTE) standards, ensuring that students receive a comprehensive education that equips them with the skills and knowledge required to meet industry demands upon graduation. The Computer Science & Engineering (CSE) Curriculum usually includes a balanced mix of basic science, humanities, and professional courses. If the Curriculum doesn't cover something needed to meet Course Outcomes (COs) and Program Outcomes (POs), the Institution adds extra efforts to fill those gaps. This is done through a process called "GAP analysis" to identify missing contents and to ensure all necessary topics are covered. The regulation followed for respective year of study is shown in the following table 2.1.1.1.

Year	I	II	III	IV
2024-2025	R23	R23	R20	R20
2023-2024	R23	R20	R20	R20
2022-2023	R20	R20	R20	R19

Table 2.1.1.1: Regulation followed for respective year of study

The Curriculum given by the University is a composition of courses in alignment with AICTE

- Social Sciences & Humanities
- Basic Sciences
- Engineering Sciences
- Program Core Courses
- Program Electives
- Open Elective Courses
- Project & Seminar

The contribution of Program Curriculum Components is represented in the following table 2.1.1.2

S. No.	Types of Courses	R20 Regulation		R19 Regulation	
		No. of Courses	Percentage of Course	No. of Courses	Percentage of Course
1	Humanities Sciences including Management	4	6.15%	5	7.24%
2	Basic Sciences (BS)	8	12.30%	8	11.59%
3	Engineering Sciences	10	15.38%	8	11.59%
4	Professional Core Courses (CSE)	22	33.84%	28	40.57%
5	Professional Electives (CSE*)	5	7.69%	5	7.24%
6	Open Subjects-Electives (OE)	4	6.15%	3	4.34%
7	Skilled Courses (SC)	5	7.69%	--	--
8	Project Work and Seminar	3	4.61%	5	7.24%
9	Non-Credit Based (NCB)	4	6.15%	7	10.14%
TOTAL		65	100%	69	100%

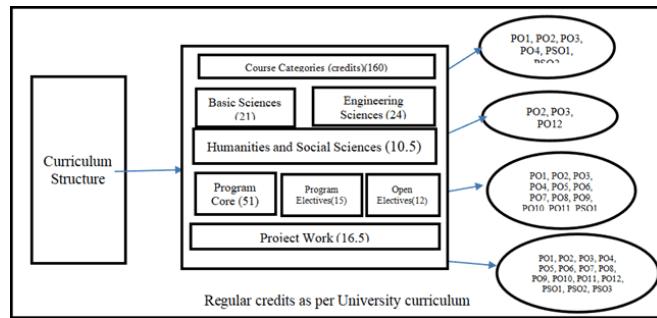
Table 2.1.1.2: Contribution of Program Curriculum components

The Curriculum is designed by the University with total credits of 160 in R23, R20 and R19 regulation for a student to be eligible to get an Under Graduate Degree in Computer Science and Engineering as recommended by the AICTE shown in Table 2.2.1.3.

S. No.	Course Modules	Credits Recommended by AICTE	Credits as per University Curriculum	
			R20	R19
1	Humanities Sciences including Management Courses (HS)	12	10.5	12.5
2	Basic Sciences (BS)	25	21	21
3	Engineering Sciences (ES)	24	24	19

4	Professional Core Courses (CS)	48	51	71.5
5	Professional Electives (CS*)	18	15	15
6	Open Subjects-Electives (OE)	18	12	9
7	Skill Oriented Courses (SO)	-	10	-
8	Project Work and Seminar	15	16.5	12
TOTAL		160	160	160

Table 2.1.1.3: Curriculum Compliance with AICTE



R19 Regulation Credits as per University Curriculum is depicted in Fig2.1.1.2.

On comparison from Table 2.1.1.3, it is very clear that the number of courses provided by the University is in compliance with AICTE. The instructional hours required, credits for the course in R20 regulation are represented in below

R20 Course Structure:

I Year – I SEMESTER						
S. No	Course Code	Courses	L	T	P	Credits
1	HS	Communicative English	3	0	0	3
2	BS	Mathematics - I (Calculus And Differential Equations)	3	0	0	3
3	BS	Applied Physics	3	0	0	3
4	ES	Programming for Problem Solving using C	3	0	0	3
5	ES	Computer Engineering Workshop	1	0	4	3
6	HS	English Communication Skills Laboratory	0	0	3	1.5
7	BS	Applied Physics Lab	0	0	3	1.5
8	ES	Programming for Problem Solving using C Lab	0	0	3	1.5
Total Credits			19.5			

I Year – II SEMESTER						
S. No	Course Code	Courses	L	T	P	Credits
1	BS	Mathematics – II (Linear Algebra And Numerical Methods)	3	0	0	3
2	BS	Applied Chemistry	3	0	0	3
3	ES	Computer Organization	3	0	0	3
4	ES	Python Programming	3	0	0	3
5	ES	Data Structures	3	0	0	3
6	BS	Applied Chemistry Lab	0	0	3	1.5
7	ES	Python Programming Lab	0	0	3	1.5
8	ES	Data Structures Lab	0	0	3	1.5

9	MC	Environment Science	2	0	0	0
Total Credits			19.5			

II Year – I SEMESTER						
S. No	Course Code	Courses	L	T	P	Credits
1	BS	Mathematics III	3	0	0	3
2	CS	Object Oriented Programming through C++	3	0	0	3
3	CS	Operating Systems	3	0	0	3
4	CS	Software Engineering	3	0	0	3
5	CS	Mathematical Foundations of Computer Science	3	0	0	3
6	CS	Object Oriented Programming through C++ Lab	0	0	3	1.5
7	CS	Operating Systems Lab	0	0	3	1.5
8	CS	Software Engineering Lab	0	0	3	1.5
Skill oriented Course - I						
9	SO	Applications of Python-NumPy OR				
		2) Web Application Development Using Full Stack -Frontend Development – Module-I	0	0	4	2
10	MC	Constitution of India	2	0	0	0
Total Credits			21.5			

II Year – II SEMESTER						
S. No	Course Code	Courses	L	T	P	Credits
1	BS	Probability and Statistics	3	0	0	3
2	CS	Database Management Systems	3	0	0	3
3	CS	Formal Languages and Automata Theory	3	0	0	3
4	ES	Java Programming	3	0	0	3
5	HS	Managerial Economics and Financial Accountancy	3	0	0	3
6	CS	Database Management Systems Lab	0	0	2	1
7	CS	R Programming Lab	0	1	2	2
8	ES	Java Programming Lab	0	0	3	1.5
Skill Oriented Course - II						
9	SO	Applications of Python-Pandas OR				
		2) Web Application Development Using Full Stack -Frontend Development –Module-II	0	0	4	2
Total Credits			21.5			
10	Minor	Operating Systems ^{\$}	3	0	2	3+1
11	Honors	Any course from the Pool, as per the opted track	4	0	0	4

III B. Tech – I Semester						
S.No	Course Code	Courses	Hours per week		Credits	
			L	T	P	C
1	PC	Computer Networks	3	0	0	3
2	PC	Design and Analysis of Algorithms	3	0	0	3
3	PC	Data Warehousing and Data Mining	3	0	0	3

4	Open Elective / Job Oriented	Open Elective-I Open Electives offered by other departments/ Optimization in Operations Research (Job oriented course)	3	0	0	3
5	PE	Professional Elective-I Artificial Intelligence Software Project Management Distributed Systems Advanced Unix Programming	3	0	0	3
6	PC	Data Warehousing and Data Mining Lab	0	0	3	1.5
7	PC	Computer Networks Lab	0	0	3	1.5
8	SO	Skill Oriented Course – III 1. Animation course: Animation Design OR 2. Continuous Integration and Continuous Delivery using DevOps	0	0	4	2
9	MC	Employability Skills-I	2	0	0	0
10	PR	Summer Internship 2 Months (Mandatory) after second year (to be evaluated during V semester	0	0	0	1.5
Total credits			21.5			
11	Minor	Database Management Systems [§]	3	0	2	3+1
12	Honors	Any course from the Pool, as per the opted track	4	0	0	4

III B. Tech – II Semester						
S.No	Course Code	Courses	Hours per week		Credits	
			L	T	P	C
1	PC	Machine Learning	3	0	0	3
2	PC	Compiler Design	3	0	0	3
3	PC	Cryptography and Network Security	3	0	0	3
4	PE	Professional Elective-II 1. Mobile Computing 2. Big Data Analytics 3. Object Oriented Analysis and Design 4. Network Programming	3	0	0	3
5	Open Elective / Job Oriented	Open Elective-II Open Electives offered by other departments/ MEAN Stack Development (<i>Job Oriented</i>)	3	0	0	3
6	PC	Machine Learning using Python Lab	0	0	3	1.5
7	PC	Compiler Design Lab	0	0	3	1.5
8	PC	Cryptography and Network Security Lab	0	0	3	1.5
9	SO	Skill Oriented Course - IV 1. Big Data:Spark OR 2. MEAN Stack Technologies-Module I (HTML 5, JavaScript, Node.js, Express.js and TypeScript)	0	0	4	2
10	MC	Employability skills-II	2	0	0	0
Total credits			21.5			
Industrial/Research Internship(Mandatory) 2 Months during summer vacation						

11	Minor	Data Structures and Algorithms ^s	3	0	2	3+1
12	Honors	Any course from the Pool, as per the opted track	4	0	0	4
Minor course through SWAYAM			-	-	-	2

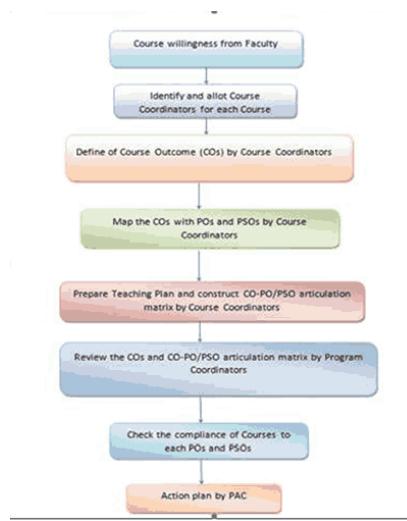
IV B. Tech -I Semester						
S.No	Course Code	Course Title	Hours per week		Credits	
			L	T	P	C
1	PE	Professional Elective-III 1. Cloud Computing 2. Neural Networks and Soft Computing 3. Ad-hoc and Sensor Networks 4. Cyber Security & Forensics	3	0	0	3
2	PE	Professional Elective-IV 1. Deep Learning Techniques 2. Social Networks & Semantic Web 3. Computer Vision 4. MOOCs-NPTEL/SWAYAM%	3	0	0	3
3	PE	Professional Elective-V 1. Block-Chain Technologies 2. Wireless Network Security 3. Ethical Hacking 4. MOOCs-NPTEL/SWAYAM%	3	0	0	3
4	Open Elective /Job Oriented	Open Elective-III Open Electives offered by other departments/ API and Microservices (Job Oriented Course)	3	0	0	3
5	Open Elective /Job Oriented	Open Elective-IV Open Electives offered by other departments/ Secure Coding Techniques (Job Oriented Course)	3	0	0	3
6	HS	Universal Human Values 2: Understanding Harmony	3	0	0	3
7	SO	1. PYTHON: Deep Learning OR 2. MEAN Stack Technologies-Module II- Angular JS and MongoDB OR 3. APSSDC offered Courses	0	0	4	2
8	PR	Industrial/Research Internship 2 months (Mandatory) after third year (to be evaluated during VII semester	0	0	0	3
Total credits			23			
11	Minor	Software Engineering ^s / any other from PART- B (For Minor)	3	0	2	3+1
12	Honors t	Any course from the Pool, as per the opted track	4	0	0	4
Minor course through SWAYAM			-	-	-	2

IV B. Tech -II Semester						
S.No	Course Code	Course Title	Hours per week		Credits	
			L	T	P	C
1	Project	Major Project Work, Seminar Internship	-	-	-	12
Total credits			12			

S. No.	Program Specific Outcome
PSO1	Develop and deploy innovative software solutions using computing skills and modern tools to meet industry and societal needs.
PSO2	Apply computational principles and advanced tools in collaboration with academia, industry, and research to deliver efficient solutions.
PSO3	Pursue emerging technologies and research with professionalism and ethical leadership, fostering lifelong learning and societal impact.

Table2.1.1.4: List of Program Specific Outcomes

Process used to identify the extent of compliance with university curriculum for attaining POs and PSOs

In the process of enhancing the compliance of Curriculum with the program outcomes, there are **few Curriculum gaps identified**.

The gaps are addressed by addition of add-on courses, Guest Lectures, Workshops and training programs. The identified gaps are listed in the following tables for R20, R19 regulations respectively. However, the gaps in the Curriculum are identified by considering the Pos that are mapped with greater than 75%. Various technical events/activities were planned for the benefit of the student to overcome the identified gaps.

SL	PO's	Description
1	PO4	Conduct investigation
2	PO5	Modern tool Usage
3	PO6	The Engineer & Society
4	PO7	Environment & Sustainability
5	PO8	Ethics
6	PO9	Individual & Team Work
7	PO10	Communication
8	PO11	Project Management & Finance
9	PO12	Life Long Learning

Gaps identified through Curriculum for the compliance of PO &PSO for R20 regulation

Sl. No	Gap Identification	POs, PSOs to be covered
1	In adequate coverage of Data security and integrity.	PO5, PO6, PO8, PO12, PSO1, PSO2

2	Agap in the ability to take Web-applications from concept to completion.	PO5, PO6, PO12, PSO1
3	Curriculum does not focus much on complex model's description in Artificial Intelligence.	PO4, PSO2
4	Lack of hands-on experience in Coding skills & Tools	PO5, PSO2, PSO3
5	Curriculum gap in addressing ethics and promoting societal awareness.	PO8, PO10
6	Agap in design and development to computer-based applications in Varying complexities in emerging areas of Machine Learning.	PO4, PO5, PO12, PSO2

Gaps identified through Curriculum for the compliance of PO &PSO for **R19 regulation**

Sl. No	Gap Identification	POs, PSOs to be covered
1	Lack of knowledge in how to utilize Data structures concepts in Real time applications.	PO5, PO6, PO7, PSO2
2	Gap in Industry-Academia Collaboration.	PO6, PO7, PO10, PSO2
3	Inadequate knowledge of how to apply technical and programming skills in Real time project development.	PO10, PO12, PSO2
4	Limited skill development for future advancements in machine learning.	PO4, PO5, PO6, PO11, PSO2
5	Limited focus on Ethic's and the art of seizing opportunities for future success.	PO8, PO10, PO12

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

Institute Marks : 10.00

A. Steps taken to get identified gaps included in the Curriculum

The Curriculum gaps are identified by considering the average of CO-PO / PSO mapping. The gaps are reported to the JNTUK University through proper channel and is represented in the following Fig 2.1.2.1

NRI INSTITUTE OF TECHNOLOGY
 Approved by AICTE - New Delhi
 Autonomous
 Affiliated to JNTUK Kakinada
 Guntur District - 522438
 UGC Recognised, Accredited by NAAC with 'A' Grade and ISO 9001:2015 Certified Institution

Department of Computer Science and Engineering

Date: 19-07-2023

To
 The Director,
 Academic Planning,
 Jawaharlal Nehru Technological University Kakinada (JNTUK),
 Kakinada, Andhra Pradesh – 533003.

Subject: Request to Address Curriculum Gaps – Reg.

Respected Sir/Madam,

I wish to bring to your kind notice that the Department of Computer Science & Engineering has identified certain gaps in the current curriculum during the CO–PO–PSO mapping process. Based on stakeholder feedback and a detailed review of the course content, the following gaps have been noted:

S. No.	Course Name	Gap Identified
1	Block Chain Technology	Inadequate coverage of data security and integrity
2	MEAN Stack	A gap in the ability to take web applications from concept to completion
3	Artificial Intelligence	Curriculum does not focus much on complex model descriptions in Artificial Intelligence
4	Python Programming	Lack of hands-on experience in coding skills and tools
5	Human Values	Curriculum gap in addressing ethics and promoting of societal awareness
6	Machine Learning	A gap in the design and development of computer based applications in varying complexity in emerging areas of Machine Learning

If necessary we would be glad to discuss these points further and provide additional insights.
 Kindly consider our request and do the needful!

Thanking you,
 Yours sincerely,

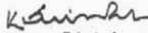

 Principal
 PRINCIPAL
 NRI Institute of Technology
 PERECHERLA (P.O), Guntur-522 431.

Fig2.1.2.1: Letter to JNTUK about identified gaps

Initiatives taken to address Curriculum gaps

The department has initiated the following measures as additional courses to bridge the identified curricular gaps.

- Add-on Lab experiments
- Pre-placement Training
- Assignments
- Training on Soft-skills
- Value added Courses
- Innovative Projects
- Guest lectures
- Workshops/Conferences/Symposiums
- Industrial Visits and Internships
- Coding classes

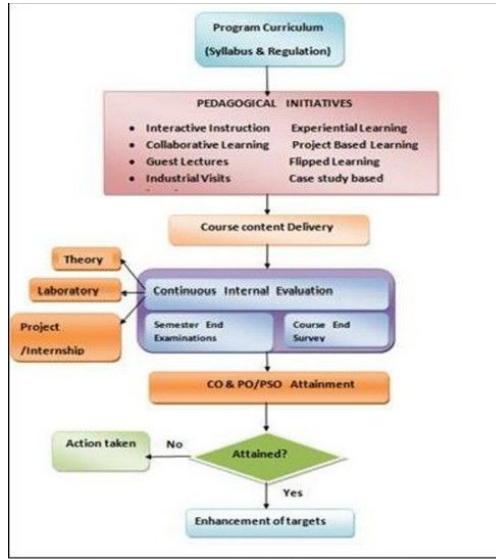


Fig 2.1.2.2: process to address Curriculum gaps and Delivery details of content beyond syllabus

Mapping of content beyond syllabus with the POs and PSOs

The mapping of the delivered content beyond syllabus with POs and PSOs is consolidated and is presented in Table below

Contents/ POs & PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Workshops on Advanced Technologies			√									√	√	√	√
Industry Expert Lectures						√					√		√	√	√
Soft Skills and Communication Training							√			√			√	√	√
Sustainability and Environmental Awareness Seminars						√	√						√	√	√
Campus Recruitment Training								√	√				√	√	√
Hands-on Training on Modern Tools			√		√								√	√	√
Multidisciplinary Projects			√			√				√			√	√	√
Ethics and Professional Responsibility Modules						√		√					√	√	√
Entrepreneurship and Innovation Programs										√	√	√	√	√	√
Collaborative Industry-Academia Projects			√		√						√	√	√	√	√

Impact Analysis

- Enhanced understanding and depth in knowledge with

- Skill development and practical application knowledge of IV B-Tech students was improved with the support of workshops conducted.
- The Bright students have improved their problem-solving and research skills with the aid of guest Lectures of the eminent persons from industry.
- Diversification of Learning Approaches in Critical Thinking and Creativity was improved with the seminars organized.
- Seminar on "The Role of Ethics in Engineering", influences the students a lot which addresses their ethical values in their future endeavors.
- Seminar on "Cyber-Security and Ethical-Hacking" impacts ethical values in students.

2023-24

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Curriculum gap in addressing ethics and promoting societal awareness	Guest Lecture on "Effective Career Planning for setting and Achieving Professional Goals" to III years	03/11/2023	Mr. Sai Satish CEO Indian Servers	93	PO7, PSO1, PSO2
2	Lack of hands-on experience in coding skills & Tools	A Guest Lecture was organized on "The Entrepreneurial Journey: From Idea to impact"	29/11/2023	Mr. Dr Y Prakash Assoc Professor, Gitam, Hyderabad	95	PO4, PSO1, PSO2
3	Curriculum gap in addressing ethics and promoting societal awareness	Seminar on "The Role of Ethics in Engineering"	11/12/2023	Mr. Y. Sreenivasulu Software Engineer Zscaler Softech India Pvt Ltd	95	PO8, PSO1, PSO2
4	A gap in design and development of computer-based applications in varying complexities in emerging areas of Machine Learning	Workshop on "Mastering data processing for Machine Learning success" IV years	05/01/2024	Dr M Srinivasa Sesha Sai Prof & HOD, IT KITS, Guntur	93	PO4, PO5, PO6, PSO1, PSO2
5	Gap in the ability to Take web applications from the concept to completion	Workshop III years "web development using Django"	30/01/2024	Mr. S V KRISHNA PATTAPAGALA Software Trainer APSSDC	94	PO4, PO5, PO6, PSO1, PSO2
6	Lack of hands-on experience in Coding skills & Tools	Infosys session to II CSE on "Introduction to programming through java"	13/02/2024	Dr. G Ramaswamy Professor, MLWEC, Guntur	93	PO4, PSO1, PSO2
7	Lack of hands-on experience in Coding skills & Tools	APSSDC WORKSHOP II Years" Data Analytics using Python"	07/03/2024	Dr. V. Ramachandran HOD-CSE VVIT- Guntur	95	PO4, PO5, PSO1, PSO2
8	A gap in design and development of computer-based applications in varying complexities in emerging areas of Machine Learning	Seminar on "Cyber Security and Ethical Hacking"	27/03/2024	Dr. K Nagarjuna Assoc. Prof, CSE KL University	95	PO5, PO8, PSO2

2022-23

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Gap in Industry-Academia Collaboration	Guest Lecture on" Bridging the Gap: Recent Trends in Industry and Academic Knowledge"	19/01/2023	Mr. T Pavan Kumar Reddy Software Trainer APSSDC	97	PO4, PO5, PO6 PSO1, PSO2
2	Limited focus on Ethics and the art of seizing opportunities for future success	Training Program Aptitude Skills- Your Path to Proficiency	31/01/2023	Mr. Ch Santosh CEO Supraja Technologies	90	PO4, PO12, PSO1, PSO2
3	Lack of knowledge in how to utilize Data structures concepts in Real time applications	Training session on "Data Structures and Algorithms Training (III&IV)"	02/02/2023	Dr. M. Venkat, Assoc. Professor, NRIIT, Vijayawada.	95	PO4, PO5, PSO1, PSO2
4	Limited skill development for future advancements in machine learning.	Gust Lecture to IICSE "A Deep Dive into Reinforcement"	22/05/2023	Dr. A. Yashwanth, Assoc Professor, RVR & JC Guntur	93	PO4, PO5, PO6, PO12, PSO1, PSO2
5	Limited focus on ethics and art of seizing opportunities for future success	Guest Lecture II CSE "Empowering Engineering"	01/08/2022	Dr G Yugandharv Professor Gitam, Hyderabad	95	PO6, PO7, PO8, P012
6	Limited focus on Ethics and the art of seizing opportunities for future success	Workshop II CSE Developing Dr. API Abdu Kalam	23/09/2022	Mr. T Naga Babu Addrin, ISRO Hyderabad	93	PO6, PO8, PO12
7	Gap in Industry-Academia Collaboration	CSE Developing Android Appss Using	17/10/2022	Mr. Dr D Bujig Babu, Assoc Professor Qis, Ongole	94	PO4, PO5, PSO2

2021-22

S.No	Gap	Action Taken	Date-Month-Year	Resource Person with Designation	% of students	Relevance to POs, PSOs
1	Scarcity of courses on Ethical and Social implications of Technology	Webinar III CSE on "Unified approach in OO and testing strategies"	20/05/2022	Dr Y Prakash Assoc Professor, Gitam, Hyderabad	94	PO4, PO5, PSO2
2	Emerging technologies not covered adequately	Guest Lecture II CSE "Workplace Values and Perception in Resource Management"	25/04/2022	Dr. G Ramaswamy Professor, MLWEC, Guntur	100	PO9, PO10, PO1 1
3	Emerging technologies not covered adequately	Seminar II CSE "Carer Guidance Awareness Program"	25/03/2022	Dr K Tirumalrao NEC Narasaraopet	95	PO6, PO11, PO12
4	Emerging technologies not covered adequately	Webinar IV CSE "Machine Learning and Deep Learning using MATLAB"	30/09/2021	Dr S Ramakrishna Gitam, Hyderabad	93	PO5, PO9, PO11, PO12
5	Limited Focus on Inter Disciplinary Research	Seminar on " Misusage of Technology and its impact on Youth"	17/09/2021	Dr. A S N CHAKRAVARTHY Professor, JNTUK	100	PO6, PO7, PO8, PO10

2.2 Teaching - Learning Processes (100)

Total Marks 100.00

2.2.1 Describe processes followed to improve quality of Teaching & Learning (25)

Institute Marks : 25.00

Effective content delivery, the selection of appropriate teaching methodologies, and careful assessment are the key aspects to a successful Teaching-Learning process. The course coordinator will consult program coordinator to ensure that the course is delivered effectively with in the allocated time frame. Teaching- Learning in the CSE department follows a student-centric process employing experiential, participative.

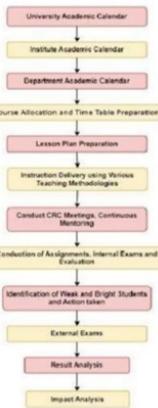


Fig2.2.1.1: Teaching-Learning Process

Adherence to Academic Calendar

The academic calendar for the institute is distributed to departments in alignment with the University academic calendar. Each department then creates its own academic calendar based on this schedule. Below Fig 2.2.1.2&5, represents copy of the University academic calendar for the academic year 2022-23 for the IVB Tech-Sem-I. The institute academic calendar is shown in Fig2.2.1.4.

University Academic Calendar 2022-23 I B-Tech Sem-I & II

I SEMESTER

Description	From	To	Weeks
Commencement of class work	26-09-2022		
Induction classes	26-09-2022	15-10-2022	
I Unit of Instructions	17-10-2022	10-12-2022	8 Weeks
I Mid Examinations	05-12-2022	10-12-2022	
II Unit of Instructions	12-12-2022	04-02-2023	8 Weeks
II Mid Examinations	30-01-2023	04-02-2023	
Preparation and Practical's	06-02-2023	11-02-2023	1 Weeks
End Examinations	13-02-2023	25-02-2023	2 Weeks
Commencement of II Semester Class Work	27-02-2023	-	-

II SEMESTER

Description	From	To	Weeks
I Unit of Instructions	27-02-2023	22-04-2023	8 Weeks
I Mid Examinations	17-04-2023	22-04-2023	
II Unit of Instructions	24-04-2023	17-06-2023	8 Weeks
II Mid Examinations	12-06-2023	17-06-2023	
Preparation and Practical's	19-06-2023	24-06-2023	1 Week
End Examinations	26-06-2023	08-07-2023	2 Weeks

University Academic Calendar 2022-23 II B-Tech Sem-I & II

I SEMESTER

Description	From	To	Weeks
Community Service Project	22.08.2022	03.09.2022	2 Weeks
I Unit of Instructions	05.09.2022	29.10.2022	8 Weeks

I Mid Examinations	24.10.2022	29.10.2022
II Unit of Instructions	31.10.2022	24.12.2022 8 Weeks
II Mid Examinations	19.12.2022	24.12.2022
Preparation and Practical's	26.12.2022	31.12.2022 1 Week
End Examinations	02.01.2023	14.01.2023 2 Weeks
Commencement of II Semester Class Work	16-01-2023-	-

II SEMESTER

Description	From	To	Weeks
I Unit of Instructions	16.01.2023	11.03.2023	8 Weeks
I Mid Examinations	06.03.2023	11-03-2023	
II Unit of Instructions	13.03.2023	06.05.2023	8 Weeks
II Mid Examinations	01.05.2023	06.05.2023	
Preparation and Practical's	08.05.2023	13.05.2023	1 Week
End Examinations	15.05.2023	27.05.2023	2 Weeks

University Academic Calendar 2022-23 III B-Tech Sem-I & II**I SEMESTER**

Description	From	To	Weeks
Community Service Project	15-07-2022	30-07-2022	2 Weeks
I Unit of Instructions	01-08-2022	24-09-2022	8 Weeks
I Mid Examinations	26-09-2022	01-10-2022	1 Week
II Unit of Instructions	03-10-2022	26-11-2022	8 Weeks
II Mid Examinations	28-11-2022	03-12-2022	1 Week
Summer Internship	15.05.2023	24.06.2023	6 Weeks
Preparation and Practical's	05-12-2022	10-12-2022	1 Week
End Examinations	12-12-2022	25-12-2022	2 Weeks
Commencement of II Semester Class Work	09-01-2023-	-	

II SEMESTER

Description	From	To	Weeks
I Unit of Instructions	09.01.2023	04.03.2023	8 Weeks
I Mid Examinations	06.03.2023	11.03.2023	1 Week
II Unit of Instructions	13.03.2023	06.05.2023	8 Weeks
II Mid Examinations	01.05.2023	06.05.2023	1 Week
Summer Internship	15.05.2023	24.06.2023	6 Weeks
Preparation and Practical's	26.06.2023	01.07.2023	1 Week
End Examinations	03.07.2023	15.07.2023	2 Weeks
Commencement of IV-I Class Work	17.07.2023-	-	

University Academic Calendar 2022-23 IV B-Tech Sem-I & II**I SEMESTER**

Description	From	To	Weeks
Commencement of Class Work	04.07.2022		
I Unit of Instructions	04.07.2022	27.08.2022	8 Weeks
I Mid Examinations	29.08.2022	03.09.2022	1 Week
II Unit of Instructions	05.09.2022	29.10.2022	8 Weeks

II Mid Examinations	31.10.2022	05.11.2022	1 Week
Preparation and Practical's	07.11.2022	12.11.2022	1 Week
End Examinations	14.11.2022	26.11.2022	2 Weeks
Commencement of II Semester Class Work	05-12-2022	–	

II SEMESTER

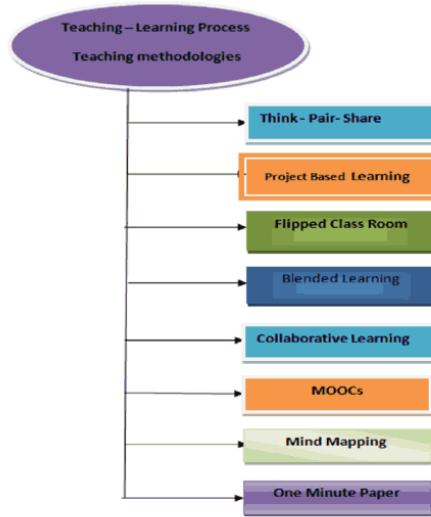
Description	From	To	Weeks
I Unit of Instructions	05.12.2022	28.01.2023	8 Weeks
I Mid Examinations	30.01.2023	04.02.2023	1 Week
II Unit of Instructions	06.02.2023	01.04.2023	8 Weeks
II Mid Examinations	03.04.2023	08.04.2023	1 Week
Preparation and Practical's	10.04.2023	15.04.2023	1 Week
End Examinations	17.04.2023	29.04.2023	2 Weeks

The daily activities within the department are carried out by the faculty members and overseen by the Head of Department (HOD) and the Principal to ensure the smooth functioning of the department. The details of course file list and lesson plan are represented in the following Fig 2.2.1.7 and Fig2.2.1.8 respectively.

Sl.no	Course file check list
1	Institute vision/mission
2	Department vision/mission/program Educational Objective (PEOs)/program specific outcomes(PSOs)
3	Program outcomes(POs)
4	Course syllabus with structure
5	Course outcomes(COs)
6	Mapping CO with PO/PSO course with PO/PSO with justification
7	Academic calendar (university Department)
8	Class time table – highlighting the course periods
9	Lesson Plan
10	Lecture notes
11	University question paper
12	International question papers key with CO and BI
13	Assignment question papers mapped with CO and BI
14	Schema of evolution with CO and BI mapping
15	Tutorial topics
16	Result analysis to identify weak and advanced learners
17	Result analysis at the end of the course
18	Remedial class for weak students
19	CO PO/PSO Assignment Sheets
20	Co Feedback form
21	Student Feedback analysis
22	Attendance register

Instructional methods and pedagogical initiatives

Innovative Teaching-Learning strategies offer students the chance to collaborate in teams, learn from their peers, and engage in self-directed learning. To enhance the quality of teaching and learning, and to encourage students to be more engaged in the classroom, the following methods are recommended. Different Teaching Methodologies are represented in Fig B.2.2.1.9.



A part from the above the mentioned methodologies, few practices are undertaken to instill interest among the students.

1. Think-Pair-Share

In this interactive teaching strategy, students begin by reflecting on a question individually, then exchange their ideas with a partner, and ultimately present their insights to the whole class. This approach is intended to enhance student participation and deepen their understanding of the material. It involves three stages:

Three stages:

1. Think
2. Pair
3. Share

Innovative Method	Outcomes	Images/Screenshot of the practice
Think-Pair-Share	Encourages : Active participation, Reflection, Collaboration.	<p>Activity on Think for Individual Reflection</p> <p>Activity on Pair for Collaborative Discussion</p>

Project-Based Learning

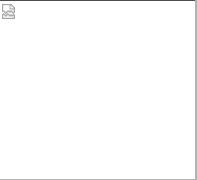
Students engage in a long-term project that challenges them to utilize a range of skills and knowledge in order to address a real-world issue.

Innovative Method	Outcomes	Images/ Screenshot of the practice
Project Based Learning	Encourages: Critical thinking, Collaboration and practical application of knowledge.	

Activity on projectbased Learning

Flipped Method

Flipped Method involves students studying learning materials (videos, readings) at home, while class time is used for interactive, problem-solving activities.

InnovativeMethod	Outcomes	Images/Screenshot of the practice
Flipped Class Room	Improved understanding through active participation and discussion. Enhanced problem-solving and critical thinking skills.	

Blended Learning

The combination of in-person teaching with online learning activities and resources.

Innovative Method	Outcomes	Images/Screenshot of the practice
Blended Learning	Students are actively participated in Blended Learning It offers flexibility, allowing students to progress at their own speed, while still enjoying the advantages of face-to-face interaction.	

Collaborative Learning

Students collaborate in teams to tackle challenges, accomplish tasks, or grasp new ideas.

Innovative Method	Outcomes	Images/Screenshot of the practice
Collaborative e Learning	Teamwork, communication skills, and deepens understanding through Peer discussion.	

MOOCs (Massive Open Online Courses)

MOOCs, or Massive Open Online Courses, are digital classes available to a large audience. Typically offered by Universities or Educational Websites, these courses span various topics and may include video lectures, reading materials, quizzes, and discussion boards.

Innovative Method	Outcomes	Images/Screenshot of the practice
Online Learning MOOCs	MOOC's provide students With access to top-notch Content from international experts, enabling them to Learn at their own speed and Expand their knowledge Beyond traditional classroom settings. Additionally, these courses often offer the Chance to earn certificates or credentials.	

Mind Mapping

Students design visual diagrams to illustrate concepts, ideas, or topics, highlighting the connections between them.

Innovative Method	Outcomes	Images/Screenshot of the practice
Mind Map	Helps organize and structure thoughts, making complex information easier to understand.	

One-Minute Paper

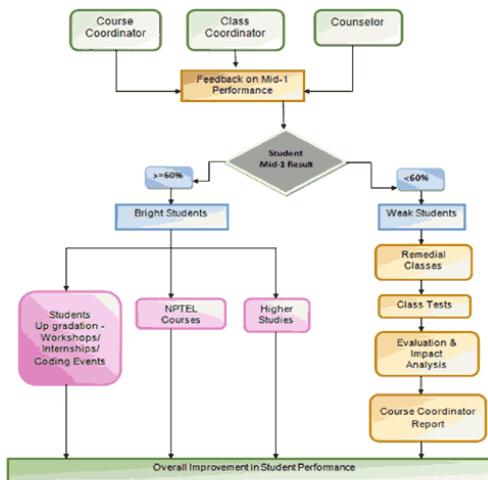
Provides quick feedback to the instructor and encourages students to reflect on their learning.

Innovative Method	Outcomes	Images/Screenshot of the practice
One-Minute Paper	Provides quick feedback to the instructor and encourages students to reflect on their learning.	

Methodologies to support Weak students and encourage Bright students

Guide lines to identify Weak and Bright students

The Bright students are identified from their participation in classroom discussion, performance in the assessment tests and participation in classroom seminars, questioning ability and University result analysis. The process



The course coordinator, class coordinator and counselor generate the feedback related to identification of bright student sand weak students, however all the students are encouraged to participate in workshops/internships/Coding tests and encouraged to register in NPTEL courses/higher studies.

The Counselors regularly conduct meetings regarding progress of their mentees and are responsible for identification of students who have scored less-than 60% Marks in their Mid-1 exam. Under the HOD direction, the student's Counselors evaluates the progress of the students who score below 60% Marks in MID-1 examinations are considered as weak students and the same is also intimated to their parents.

Methodologies to guide weak students

Remedial classes will be conducted for weak students from i.e., 3:00PM to 5:00PM. At the end of these classes the students have to write the test and it will be evaluated and analyzed properly by course coordinator.

Separate Assignments are given to weak students and extra classes are conducted by course coordinators. Separate materials are provided to weak students.

The course coordinator helps the students by teaching the essential concepts, giving assignments And conducting tests to improve the student's score.

Weak students mentoring will be frequently done to identify the student socio economic problems and academic performance.

Significant efforts are made to improve the academic performance of weak students through remedial classes/assignments. However, special trainings are conducted to get the campus placements for weak students.

Identification Criteria	Actions taken
Students scoring less than 60% of marks in Internal Assessment	Student' counselor follows their progress regularly advising students about attending classes, making up classes missed, and getting additional help. Conduction of remedial classes and providing separate fast track material.
Diploma students who entered from other branches and late joining	Conduction of extra classes and encourage to complete certification courses.

Students who fail in semester exams	Allotting separate course coordinator for each course. Conduction of extra classes to those who failed in Previous semester courses.
-------------------------------------	--

Table2.2.1.13: Plan of Action Taken for Weak students

The **remedial class timetable** is prepared and the course coordinators are instructed to take the classes and **monitoring student regularity** is done by the program coordinator. A sample remedial class time-table is shown below

Remedial Class – Time Table

Class: III B-Tech Sem: I

Timings:

S. No	Schedule	Course Name	Faculty
1		CN	Dr. D Vikram
2	14-10-2024	DAA	Mrs. G Sowmya
3	To	DWDM	Mr. P Arvind
4	17-10-2024	SPM	Mr. I Nageshwar Rao

Note: All the students have to attend the classes without fail.

Methodologies to encourage Bright students:

- The Institute encourages **bright students** to participate in the **National Level Technical Competitions** organized by **other Institutes and Universities**.
- Students are encouraged to **publish their scientific articles** in the department level/college level newsletter and Institute organizes events such as Technical Paper presentation, Student Symposium, Seminar, Project Exhibitions, Software development competitions and Problem-solving competitions to develop and promote creativity and critical thinking among the students.
- Students are **paid with incentives and stipend**.

The students are encouraged to actively participate in various **NCC & NSS Activities** as part of their technical education and to enrich their **leadership qualities** and team spirit.

Identification Criteria	Actions taken
Students awarded with First Class and with Distinction in their semester exams	<p>Motivated to take up mini projects.</p> <p>Encouraged to participate in inter college national level fests</p> <p>Motivated to take GATE, GRE and TOEFL exams to pursue higher studies</p> <p>Encouraged to do NPTEL courses, etc</p> <p>The management awarded cash prizes for students those who have possessed NPTEL certificates.</p> <p>Additional lab programs were given to improve their problem-solving skills.</p> <p>Conducting seminars on advanced electronic tools required for industry.</p> <p>Allotment of extra library books.</p> <p>Permitted to spend extra time in the project Lab</p>
Topper student of each class for Every academic year	Awarded with mementos and cash prizes to continue their Excellency in academics.

Table2.2.1.13: Plan of Action taken for Bright students

The institute offers cash prizes to the students who have achieved First rank in the institution.

The bright students are encouraged to do NPTEL courses along with academic to enrich their knowledge in technical skills. Many faculty members are mentors for different NPTEL courses which enhances their teaching skills as well as their active participation in academics as shown in below Table2.2.1.12:

Academic Year	Year	Branch	Regd No	Name of the Student
2023-24	I BTech	CSE	23KP1A05E9	VADLAMUDI SUSMITHA
	II BTech	CSE	22KP1A0551	INAVOLU VENKATA SAI SANTHOSHA LAKSHMI
	III BTech	CSE	21KP1A0549	KOPPANANTHI NAGA RAJASRI
	IV BTech	CSE	20KP1A05A9	YARLAGADDA SRUTHI ANASURYA
2022-23	I BTech	CSE	22KP1A05C3	SUBHASH KADIYAM
	II BTech	CSE	21KP1A05B3	VAVILALA LAKSHMI SATYA PAVANI MANASWINI
	III BTech	CSE	20KP1A0590	SAVARLA TIRUPATHI RAO
	IV BTech	CSE	19KP1A0533	GONUGUNTALA YAMINI
2021-22	I BTech	CSE	21KP1A05A1	SUSMITHA VANKAYALAPATHI
	II BTech	CSE	20KP1A0590	SAVARLA TIRUPATHI RAO
	III BTech	CSE	19KP1A05A8	TADIKAMALA SIVA PARVATHI
	IV BTech	CSE	18KP1A0514	BHAVANI RAMYA SRI

Table2.2.1.14: Details of Merit Students

The bright students are encouraged to do NPTEL courses along with academic to enrich their knowledge in technical skills. Many faculty members are mentors for different NPTEL courses which enhances their teaching skills as well as their active participation in academics. The details are Shown in the following Table2.2.1.14:

S. No	Name of the Course	Dates of Participation	Relevance to POs and PSOs
1	The joy of Computing using Python	15-07-2024 to 07-10-2024	PO5, PO6, PO9, PO12
2	Introduction to Internet of Things	15-07-2024 to 07-10-2024	PO5, PO6, PO9, PO12
3	Data Base Management System	20-1-2025 to 22-03-2025	PO5, PO6, PO9, PO12
4	Introduction to Machine Learning	20-1-2025 to 14-04-2025	PO5, PO6, PO9, PO12
5	Data Science for Engineers	20-01-2025 to 22-03-2025	PO5, PO6, PO9, PO12
6	Problem Solving Through C Programming	15-01-2023 to 9-04-2023	PO5, PO6, PO9, PO12
7	Deep Learning	20-1-2025 to 14-04-2025	PO5, PO6, PO9, PO12
8	Data Analytics with Python	20-1-2025 to 14-04-2025	PO5, PO6, PO9, PO12

Table2.2.1.15: NPTEL courses completed in three academic years

Impact Analysis:

All the students are encouraged in all aspects to enrich their technical skills by conducting several technical fests and personality development activities.

The students participated in various events like:

- Technical events
- NSS programs,
- Taking up there al time projects,
- Conferences,
- Under-going various certification courses,
- Various workshops and inter& intra college events

Quality of classroom teaching

NRI Institute of Technology is very particular in maintaining quality of teaching in the classroom. Every faculty in the institute is trained to deliver the content in the classroom by adopting following procedures.

1.Instruction Delivery

Course coordinators take the classes as per the timetable and less on plan by following various teaching- learning techniques. The goals are revised by the faculty frequently to create satisfaction among students, outstanding performance of the students are appreciated through rewards in public. Newly recruited faculties are trained on how to use the ICT tools for lecture delivery.

2. Continuation Evaluation

Two mid exams for every semester both descriptive and objective is conducted by University with assignments for theory courses. Viva-voce is conducted in every lab for evaluating the student's technical knowledge. Observation and Record evaluation is done frequently and internal lab exam for laboratory courses are conducted.

3. Review of Syllabus Coverage

Program Assessment Committee (PAC) reviews the coverage of syllabus on a regular basis in faculty meetings; Class Review Committee (CRC) meetings are conducted in the subsequent intervals of semester duration to review the syllabus coverage of each course.

Impact Analysis:

- Improved results of students every year placing the institute in the top positions among the University affiliated colleges by implementing all these teaching initiatives in the classroom.
- Self Upgradation of faculty with the methodologies implemented in the department.
- Improved not only academic results but also placements of the students.

E-Conduct of experiments:

Being a technical institute, the labs in the college are equally important than the classroom to gain the practical oriented engineering knowledge and for the development of skills. The Laboratory experiments are conducted through the following measures:

- Sufficient numbers of computers are available in the lab for conducting the lab session. All the computers provided are in good working condition.
- Programmers in the lab are technically competent and they are responsible to verify the readiness of the lab before conducting the lab session.
- Every student is provided with a computer on 1:1 ratio which ensures quality of laboratory experience.
- Manuals are provided for all experiments in the laboratories before the commencement of the lab sessions.
- The concept of the program to be coded and executed in the lab is thoroughly explained in the class duration and lab.
- Course coordinator monitors that every student is involved in writing the program, debugging the program and obtaining the correct outputs.
- Analysis and writing programs, executing and obtaining the results is done by students individually.
- The obtained results are validated for all testcases.
- First year students who are using the computer for the first time are supported to operate on the system until they are trained well to use the system.
- There are few experiments included as content beyond the syllabus to meet the needs of the industry.
- Few experiments are conducted in groups to implement collaborative learning that facilitates the individual to work in a team.
- Viva-voce is conducted after each lab session.
- As part of this, different technical competitions like Quiz, Coding etc, are conducted to enrich the student's knowledge and to create competitive spirit among them.

Continuous assessment in the Laboratory:

For internal evaluation, total 25 marks are sub-categorized to 10marks for write-up and evaluation, 10 marks for continuous assessment and 5 marks for record work. Rubrics are used for the assessment of students in each Lab session

Rubric for day-to-day evaluation: The rubrics for day-to-day evaluation is designed based on student technical skills, interpersonal skills and regularity. The rubrics for lab session are designed to assess the student's performance that is shown in **Table 2.2.1.16.**

Rubric	Below Average (Marks)	Average (Marks)	Good (Marks)	Total (Marks)
Program	2	3	4	4
Output	2	3	4	4
Record	1	2	3	3
Viva	2	3	4	4
Total				15

Table 2.2.1.19: Day to Day Assessment Rubrics

Technical Skills:

- Prior preparation of the student to do the current experiment.
- Programming knowledge of the student to interpret the results.
- Participation of student in performing the experiment.
- Evaluate the experiment using various methods and suggest possible improvements and further investigations.

Interpersonal Skills:

- Time management- Ability to complete the task in stipulated time
- Communication skills- Able to explain the obtained results

R23, R20 and R19 Regulations Rubrics for Internal Evaluation in Lab

Rubric	R20(Marks)	R19(Marks)
Continuous Assessment in Lab	5	10
Record	5	5
Internal Test	10	10
Total	20	25

Student feedback on teaching-learning process and action taken:

The PAC collects feedback from students on the effectiveness of teaching and learning at different points of time during the semester. Initially, verbal feedback is taken from each class in formally by HOD after 1-2 weeks of commencement of classwork. Feedback is also taken during students counseling and communicated to the PAC. If students are facing difficulty in any course, the concerned course faculty is informed with the same. Besides the above, online students feedback is taken anonymously twice in every semester. The feedback is analyzed and communicated to all faculty members with necessary remarks by the PAC. Majority of the faculty members are graded with more than 85% which evidences for good quality in the Teaching-Learning process.

Action Taken

- Orientation Classes will be conducted to the course faculty with less than 85% feedback. PAC provides guidelines and suggestions to them for improvement in Teaching-Learning process.
- The lecture-notes is reviewed and necessary suggestions in the courses are offered. They are also suggested to refer more text-books.
- After 2-3 weeks, feedback is again taken from students in the course for necessary action.
- These master results are also analyzed for such faculty members.

S. No	Class	Name of the Course	Name of the Faculty	Feedback%
1	II B-Tech Sem - I	(Advanced data structure) ADS	MRS.K. Kavya Sree	77%
2	III B-Tech Sem - I	Data Warehousing and Data Mining (DWDM)	MR. P. Arvind	75%
3	IV B-Tech Sem-I	Ethical hacking (EH)	MRS. M. Uma Devi	80%

Table2.2.1.24: Faculty Details with less-than 85% Feedback

Impact Analysis:

- Improvement in presentation skills of the faculty and in lecture delivery after the orientation class/classes.
- Improvement in result of the concerned course is as follows

S. No	Class & Sec	Name of the Course	Name of the Faculty	Semester Results%
1	II B-Tech Sem - I	(Advanced data structure) ADS	MRS.K. Kavya Sree	97%
2	III B-Tech Sem - I	Data Warehousing and Data Mining (DWDM)	MR. P. Arvind	99%
3	IV B-Tech Sem-I	Ethical hacking (EH)	MRS. M. Uma Devi	100%

Table2.2.1.25: Impact analysis of the faculty after orientation classes

III B-Tech II Semester (R20) Regular Examination ResultCourse-wise Result

Academic Year: 2024-25 Date: 10-07-2025

Branch: Computer Science Engineering

Branch	CSE	Total Attended:	136	112	24	82.35%
Subject Name		Faculty Name		PASS	FAIL	%PASS
IOT AND APPLICATIONS		Smt. B Indulatha	123	13	90.44	
MACHINE LEARNING		Dr YV RAGHAVASRAO	126	10	92.65	
COMPILER DESIGN		Dr K NAGESWARARAO	129	7	94.85	
CRYPTOGRAPHY AND NETWORK SECURITY		Mr. J RAMU	128	8	94.12	
MACHINE LEARNING USING PYTHON LAB		Dr YV Raghavaraao	135	1	99.26	
COMPILER DESIGN LAB		Dr K Nageswararao	135	1	99.26	
CRYPTOGRAPHY AND NETWORK SECURITY LAB	Mr. J Ramu		135	1	99.26	
SKILL ORIENTED COURSE-IV MEAN STACK TECH	Mr. Hussain		135	1	99.26	
EMPLOYABILITY SKILLS-II	Smt. P Jeevana		136	0	100.00	
OBJECT ORIENTED ANALYSIS AND DESIGN	Mrs. N Kanthi Priyadarshni		124	12	91.18	

Fig2.2.1.19:Impact analysis of the Orientation classes in External Results

Corrective measures

- Counseling the course faculty who scored less than 85% feedback.

- Encouraging them to register for refresher courses (FDP/STDP) to improve the course knowledge.
- Encourage to attend workshops on teaching methodologies.
- Arranging special lectures by eminent persons.

2.2.2 Quality of internal semester Question papers, Assignments and Evaluation (20)

Institute Marks : 20.00

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

The process for internal semester question paper setting for Mid-I is shown in the following fig 2.2.2.1. The same process repeated for Mid-II. The process of Mid evaluation is depicted in the following Fig2.2.2.2.

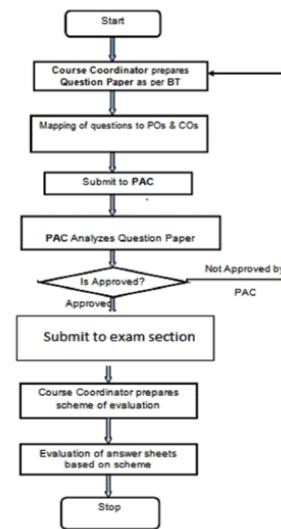


Fig2.2.1: Process for internal semester question paper setting

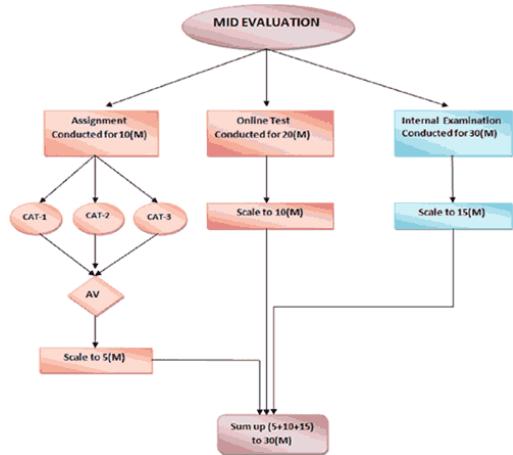


Fig2.2.2: Process of Mid Examination Evaluation

- Question paper for internal examination (Mid exam) is set in the standard format by the course coordinator for approximately 50% of the total syllabus for each mid exam.
- Under JNTUK regulations, the pattern of mid exam question paper consists of 3questions and the Student has to answer all the 3-Questions. Each question carries 5marks.This descriptive exam is conducted for 15 marks.
- The department ensures that the course coordinator completes the syllabus required to conduct Exam by taking the course completion survey report twice in a semester.
- Two sets of question paper will be prepared by the course coordinators.
- The question paper contains questions from the syllabus with Cos coverage and the level of difficulty as per the revised Bloom's Taxonomy action verbs. Scheme of evaluation will be prepared bythe corresponding course coordinator.
- The quality of the question papers are evaluated by the PAC and verifies whether the question Paper is designed as per the Bloom's Tax on my and covering the Cos and there port is submitted to Principal for further action or for improvement if required.
- One set will be selected by the Principal one hour before on the day of exam.
- The course coordinators prepares scheme of valuation for the mid exam question paper and evaluates the answer scripts as per the scheme.
- The scheme of valuation and the valued answer scripts are shared with the students to maintain Transparency and affix their signature on the answer script after scrutiny.
- The students are given a chance to ask doubts regarding the evaluation procedure or marks allotted The doubts are clarified by the course coordinator and the assessment is done
- Mid marks will be displayed in the notice boards for students.
- Weak students will be identified and remedial classes are conducted to improve their learning ability through tests, assignments etc.

The Sample Question paper under R20 Regulations for CSE of Mid-I is shown below:

NRI INSTITUTE OF TECHNOLOGY:: GUNTUR III B.TECH - I SEM II MID EXAMINATIONS , Nov 2023 DIGITAL LOGIC DESIGN (CSE)				
DATE: 01.12.2023		TIME:1½ HOURS.		
Regd. No:		MAX MARKS:15		

ANSWER ALL QUESTIONS

	a)	Design 4 bit magnitude comparator. And Draw the pin diagram of an IC 7447	2.5M	C315.3	REMEMBER
1.	b)	Compare the three PLDS-PROM, PLA, and PAL	2.5M	C315.3	COPMREHENSION
2.	a)	Convert JK FF to SR FF	2.5M	C315.4	EVALUTION
	b)	Study the following relevant ICs and their relevant functions 7474,7475	2.5M	C315.4	ANALYSIS
3.	a)	Design of priority encoder	2.5M	C315.5	ANALYSIS
	b)	Capabilities and limitations of finite state machine	2.5M	C315.5	COPMREHENSION

The scheme of evaluation to the above question paper for the course Artificial Intelligence of Mid-I is given below:

1.a) Design 4 bit magnitude comparator. And Draw the pin diagram of an IC 7447.

- Explanation of magnitude comparator and its need (1M)
- Logical circuit and equation for a 4-bit comparator (1M)
- Truth table and logic diagram for 4-bit comparator (1M)
- Pin diagram of IC 7447 (0.5M)
- Description of IC 7447's key functionalities (0.5M)

1.b) Compare the three PLDS PROM, PLA, and PAL.

- Introduction to programmable logic devices (0.5M)
- Description and architecture of PROM, PLA, PAL (1M)
- Comparison table: similarities and differences (0.5M)
- Applications and limitations of each (0.5M)

2.a) Convert JK FF to SR FF.

- Brief definition of JK and SR flip-flop (0.5M)
- Excitation table of JK and SR FF (0.5M)
- Logic conversion with required logic expression (1M)
- Design or circuit showing conversion (0.5M)

2.b) Study the following relevant ICs and their relevant functions 7474, 7475.

- Introduction to 7474 and 7475 ICs (0.5M)
- Pin diagrams and basic functions (0.5M)
- Applications in digital circuits (1M)
- Table summarizing differences (0.5M)

3.a) Design of priority encoder.

- Definition and concept of priority encoder (0.5M)
- Truth table and logic equation (1M)
- Logic diagram/schematic (1M)

3.b) Capabilities and limitations of finite state machine.

- Explanation of finite state machine FSM (0.5M)
- Capabilities of FSM with examples (1M)
- Limitations of FSM (1M)

Process to ensure questions from out comes/learning levels perspective

- The department ensures that the course coordinators strictly follow the learning levels while preparing the question paper for internal examination.
- The course coordinator defines the Course Outcomes for the allotted course and maps the Co's to PO's.
- The Co's are written considering the contents in the syllabus and the ability of the student to learn after successful completion of the course.
- The ever used to describe the CO specifies the Blooms Tax on my level of understanding.
- The course coordinator while preparing the questions for internal examination ensures that the questions framed are also mapped to the same level as defined by Co's and is clearly indicated in the question paper



ANSWER ALL QUESTIONS

1.	a) Design 4 bit magnitude comparator. And Draw the pin diagram of an IC 7447	2.5M	C315.3	REMEMBER
	b) Compare the three PLDs- PROM, PLA, and PAL.	2.5M	C315.3	COPREHENSION
2.	a) Convert JK FF to SR FF	2.5M	C315.4	EVALUTION
	b) Study the following relevant ICs and their relevant functions 7474,7475	2.5M	C315.4	ANALYSIS
3.	a) Design of priority encoder	2.5M	C315.5	ANALYSIS
	b) Capabilities and limitations of finite state machine	2.5M	C315.5	COPREHENSION

CO	Action verb used	Revised Blooms Taxonomy level	Question.NO	Question verb
C315.3	Design, Draw	Remember	1(a)	Design, Draw
C315.3	Compare	Comprehension	1(b)	Compare
C315.4	Convert	Evaluation	2(a)	Convert
C315.4	Study	Analysis	2(b)	Study
C315.5	Design	Analysis	3(a)	Design
C315.5	Explain	Comprehension	3(b)	Explain

Fig2.2.5: DLD R20 mid-I Question paper

The questions in the mid question paper covers the tax on my level specified with the course out comes for course DLD and the same followed or all courses.

Quality of Assignments and its relevance to Cos

- Assignments are given to students from the topics covered in each unit and satisfying the Cos defined
- The questions framed in the assignments are taken from multiple sources (previous question papers, text books, etc.) and cover not only the theoretical conceptual so impart creativity on real time applications
- Six Assignments covering each unit are given in each course for every semester
- Every Assignment carries 5marks and an average of 3assignments for 5marks is considered for mid exam
- The assignments are evaluated within two weeks after submission and the valued assignments are returned to the students for their security and improvement Mapping is done for all questions of the assignment with the COs of the course
- The quality of the assignment questions are also audited by PAC.

Sample Assignment questions under R20 Regulations for DAA are represented below:

Qno	Questions	CO	Blooms Level
1	Design the algorithm to find the shortest path in the multistage graph using forward approach	CO3	L2
2	Explain the 0/1 Knapsack problem procedure with the knapsack instance for n=4, M=15, (p1,p2,p3,p4)=(10,10,12,18), (w1,w2,w3,w4)=(2,4,6,9).Draw the Portion of the state space tree and optional solution	CO3	L1
3	Write dynamic programming solution for the Travelling Sales Person problem for the network with the cost adjacency matrix below. Assume node 1 as the home city	CO3	L2

2.2.3 Quality of student projects (25)

Institute Marks : 25.00

Quality of Student Projects

Identification of Projects and Allocation Methodology to Faculty Members

The Project Review Committee (PRC) members will initiate the process of Guide allocation for student's projects, before the commencement of semester. They will conduct meeting with faculty members and will identify potential implementation areas of projects. During this meeting, they pin point key areas of focus, incorporating the latest Machine Learning, Deep Learning and IoT, etc. Problem statements with in these domains are then formulated, by allowing students to select projects based on their personal interests. The detailed process of student's project is shown in Fig 2.2.3.1.

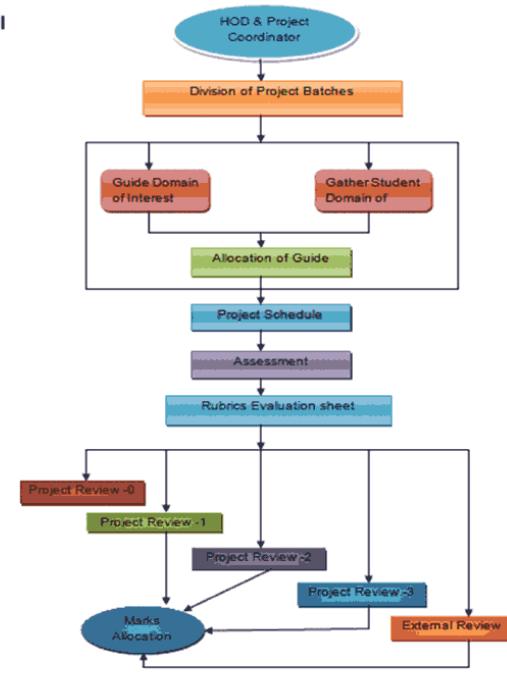


Fig2.2.3.1: The detailed process followed for Student's Project

Batch Formation

The students are divided into Project batches by first ranking the students based on their performance in examinations (CGPA/average SGPA/number of backlogs) up to III year II semester/III Year I Semester For example, for 15 batches, the top 15 students are nominated as team leaders for the respective batches. The 16 ranker is allotted to the 15 batch, 17 ranker to the 14 batch and soon with the 30 ranker to The 31 ranker is then allotted to the 1batch and the cycle is repeated. The following Fig 2.2.3.2 is a project registration form of 2023-24 academic year.

NRI INSTITUTE OF TECHNOLOGY
Autonomous
Affiliated to JNTU Hyderabad
Approved by AICTE, NAAC Accredited
Department of Computer Science and Engineering

PROJECT REGISTRATION

DEPARTMENT: CSE DATE: 30-12-2024
SEMESTER: 4th S

We, the undersigned students, read and understood the guidelines pertaining to project work.
The tentative title of the project is ... AI-Powered Intrusion Detection Systems for Networks.
The project will be designed and developed by the _____ of internal guide and _____ external guide (if any) from NRI INSTITUTE OF TECHNOLOGY _____ (Name of the organization). We request your permission to carry out the project.

Student Name: VAVILALA LAKSHMI SATHYAVANI V Ravani

1. VAVILALA LAKSHMI SATHYAVANI V Ravani
2. MEDARAMETLA RAKTE SWARI
3. DANALA VARA PUJITHA
4. PALAPALA SEVA DOTHKI

PROJECT COORDINATOR: D. Koteshwar Rao
HEAD OF THE DEPARTMENT: J. V. P. Pillai

Fig2.2.3.2: Project Registration form

Guide Allocation Methodology:

The selection of students for projects is based on their knowledge, methodology, skillset, and interest in the project topic based on student **domain interest** from each project team. The team will consist of a maximum off our (in rare case five students) and faculty members will be assigned as guides to support the students. The faculty member's area of interest should align with the interested **project domain** of the students. The project batches list along with **guide allocation** is provided to the students. The **PRC** is responsible for the guide allocation. The project guide allocation form is shown below in Fig 2.2.3.3.



PROJECT GUIDE ALLOCATION

DEPARTMENT: CSE - A DATE: 19-12-2024
SEMESTER: 4th BATCH NO: 8

S. No.	Batch No.	Student Name	Project Title	Internal Guide
1	21KPC1A0501	Mr. Sai Basili	Forecasting cryptocurrencies	P RATNA KUMARI
2	21KPC1A051	K Vamsi Santry	Cryptocurrency Prices using AI models	
3	21KPC1A054	R Venkata Karthik		
4	21KPC1A053	G Sait Narendra		
5	21KPC1A050	B Sai Kiran		

PROJECT CO-ORDINATOR

HEAD OF THE DEPARTMENT

Fig:2.2.3.3: Project Guide Allotment form

S. No (A section)	REGD.NO	NAMES	NAME OF THE PROJECT TITLE	NAME OF THE GUIDE	Relevance to Pos
1	20KP1A0501	ALAPATI HEMA VENKATA SRI RAM	SENTIMENT ANALYSIS OF TWITTER DATA USING MACHNE LEARNING	Dr. J C SEKHAR	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO3
2	20KP1A0502	ANNAM MAHESWARAREDDY	NUERAL MACHINE TRANSLATION BY LSTM USING MACHINE LEARING	Mr. J RAMU	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO4
3	20KP1A0503	ANUMULA MANOHAR REDDY	PREDICTION OF STUDENT PERFORMANCE USING MACHINE LEARNING	Mr. V K PRATAP	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO5
4	20KP1A0504	BANDARU VENKATA TAGORE NATH REDDY	DETCTNG PHISHING WESITE USING MACHINE LEARNING	Mrs. N R L PRASANNA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO6
5	20KP1A0505	BANDLA VENKATA SAI MANIKANT	PREDICTING RAINFALL USING MACHINE LEARING TECHNIQUES	Mrs. N KANTHI PRIYA DARSHINI	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO7
6	20KP1A0506	BATTINI VENU KUMAR	CRIME PREDICTION AND ANALYSIS USING MACHINE LEARNING	Mrs. G SOWMYA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO8
7	20KP1A0507	BATTULA PAVAN KUMAR	LUNG CANCER DETECTION USING DEEP LEARNING	Mrs.CH BINDU MADHAVI	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO9
8	20KP1A0508	BHIMAVARAPU KULESH REDDY	SIGN LANGUANGE INTERPRETER USING DEEP LEARNING	Mrs. D THIRUPATAMMA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO10
9	20KP1A0509	BHOGI SAI KIRAN	BIGMART SALES USING MACHINE LEARNING WITH DATA ANAYLISIS	Mr. G PRAVEEN	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO11
10	20KP1A0510	BIJIVEMULA DINESH REDDY	FBI CRIME DATA ANALYSIS USING MACHINE LEARNING	Dr. J C SEKHAR	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO12
11	20KP1A0511	BOMMU JANU	CAR PRICE PREDICTION USING MACHINE LEARNING WITH PYTHON	Mr. J RAMU	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO13
12	20KP1A0512	BOMMU MOUNIKA	EMOTION DETECTON USING DEEP LEARNING	Mr. V K PRATAP	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO14
13	20KP1A0513	BOMMU PRASAD	FINDING THE BEST FEATURES FOR PREDICTING MODES OF CHILD BIRTH	Mrs. N R L PRASANNA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO15

14	20KP1A0514	BORRA YUVATEJA	MASTERS THESIS USING MACHINE LEARNING	Mrs. N KANTHI PRIYA DARSHINI	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO16
15	20KP1A0515	CHALLA SHASHI PRIYA	ANDRIOD SECURITY	Mrs. G SOWMYA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO17
16	20KP1A0516	CHAMARTHI CHANDRASEKHAR	DETECTING PHISHING WEBSITES USING MACHINE LEARNING	Mrs.CH BINDU MADHAVI	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO18
17	20KP1A0517	CHAMARTHI NAGARAJU	CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING	Mrs. D THIRUPATAMMA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO19
18	20KP1A0518	CHAMARTI VENKATESWARLU	FACE RECOGNITION USING MACHINE LEARNING	Mr. D KOTESWARA RAO	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO20
19	20KP1A0519	CHANDRA GURUNADHAM	PRODUCT DELIVERY WITH REINFORCEMENT	Dr. J C SEKHAR	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO21
20	20KP1A0520	CHILKA ROJI	FAKE NEWS DETECTION USING MACHINE LEARNING	Mr. J RAMU	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO22
21	20KP1A0521	CHINTA RAMANJI	VIRTUAL PERSONAL DESKTOP VOICE ASSISTANT	Mr. V K PRATAP	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO23
22	20KP1A0522	DAMA PAVANI	FACE MASK DETECTION USING DEEP LEARNING	Mrs. N R L PRASANNA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO24
23	20KP1A0523	DANDAMUDI ESWAR	ANALYSIS ON STUDENT FEEDBACK USING MACHINE LEARNING	Mrs. N KANTHI PRIYA DARSHINI	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO25
24	20KP1A0524	ENAGANTI HEMANTH SAI KUMAR	CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING	Mrs. G SOWMYA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO26
25	20KP1A0525	EVURI VAISHNAVI	LANGUAGE DETECTION - MACHINE LEARNING APP	Mrs. CH BINDU MADHAVI	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO27
26	20KP1A0526	GADDAM BALANKI REDDY	DIGITAL SIGNATURE USING MACHINE LEARNING	Mr. V K PRATAP	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO28
27	20KP1A0527	GADDIPARTHI MADAN BABU	MELODY MUZIK	Mr. G PRAVEEN	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO29
28	20KP1A0529	GARLAPATI VENKAT REDDY	SENTIMENT ANALYSIS OF TWITTER DATA USING MACHNE LEARNING	Dr. J C SEKHAR	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO30
29	20KP1A0531	GRANDHE MOUNIKA	NUERAL MACHINE TRANSLATION BY LSTM USING MACHINE LEARING	Mr. J RAMU	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO31
30	20KP1A0532	GRANDHI PRASANNA VIJAYA KUMAR	PREDICTION OF STUDENT PERFORMANCE USING MACHINE LEARNING	Mr. G PRAVEEN	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO32
31	20KP1A0533	GUDAVALLI RISHI SEKHAR	DETCTNG PHISHING WESITE USING MACHINE LEARNING	Mrs. N R L PRASANNA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO33
32	20KP1A0534	GUDIPUDI NAGA SAMPOORNA	PREDICTING RAINFALL USING MACHINE LEARING TECHNIQUES	Mrs. N KANTHI PRIYA DARSHINI	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO34

33	20KP1A0535	INTURI MUKESH	CRIME PREDICTION AND ANALYSIS USING MACHINE LEARNING	Mrs. G SOWMYA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO35
34	20KP1A0536	ISKA MAHESWARA REDDY	LUNG CANCER DETECTION USING DEEP LEARNING	Mrs. CH BINDU MADHAVI	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO36
35	20KP1A0538	JAMALLAMUDI NAVYA	SIGN LANGUANGE INTERPRETER USING DEEP LEARNING	Mrs. D THIRUPATAMMA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO37
36	20KP1A0539	JANDHYALA SITHIKANTA MURTHY	BIGMARTSALES USING MACHINE LEARNING WITH DATA ANAYLSIS	Mr. V K PRATAP	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO38
37	20KP1A0540	JANDRAJUPALLI SURENDRA	FBI CRIME DATA ANALYSIS USING MACHINE LEARNING	Dr. J C SEKHAR	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO39
38	20KP1A0541	JANGA LENIN BABU	CAR PRICE PREDICTION USING MACHINE LEARNING WITH PYTHON	Mr. V K PRATAP	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO40
39	20KP1A0542	JUJJURU RAJARAJESWARI	EMOTION DETECTON USING DEEP LEARNING	Mr. J RAMU	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO41
40	20KP1A0543	KALARI HARINI	FINDING THE BEST FEATURES FOR PREDICTING MODES OF CHILD BIRTH	Mrs. N R L PRASANNA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO42
41	20KP1A0544	KARRIAVULA UMA LALITHA BANGARAM	MASTERS THESIS USING MACHINE LEARNING	Mr. V K PRATAP	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO43
42	20KP1A0545	KASANI SUMANTH	FAKE NEWS DETECTION USING MACHINE LEARNING	Mrs. G SOWMYA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO44
43	20KP1A0546	KATURU VINAY KUMAR	VIRTUAL PERSONAL DESKTOP VOICE ASSISTANT	Mrs. CH BINDU MADHAVI	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO45
44	20KP1A0547	KESAVARAPU BHARGAVI	FACE MASK DETECTION USING DEEP LEARNING	Mrs. D THIRUPATAMMA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO46
45	20KP1A0549	KILARI VAMSI	ANALYSIS ON STUDENT FEEDBACK USING MACHINE LEARNING	Mr. G PRAVEEN	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO47
46	20KP1A0551	KONDA SURENDRA REDDY	CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING	Dr. J C SEKHAR	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO48
47	20KP1A0552	KONDARU GEETHIKA	LANGUAGE DETECTION - MACHINE LEARNING APP	Mr. J RAMU	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO49
48	20KP1A0553	KORABANDI NILIMA	DIGITAL SIGNATURE USING MACHINE LEARNING	Mr. V K PRATAP	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO50
49	20KP1A0554	KOTTHERVA SREELATHA	MELODY MUZIK	Mrs. N R L PRASANNA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO51
50	20KP1A0556	MADDOJU SAI MAHENDRA	BIGMART SALES USING MACHINE LEARNING WITH DATA ANAYLSIS	Mrs. N KANTHI PRIYA DARSHINI	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO52
51	20KP1A0557	MAHESWARAPU VENKATA LAKSHMI SATISH	FBI CRIME DATA ANALYSIS USING MACHINE LEARNING	Mrs. G SOWMYA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO53

52	20KP1A0558	MAMIDI GOWRI	CAR PRICE PREDICTION USING MACHINE LEARNING WITH PYTHON	Mrs.CH BINDU MADHAVI	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO54
53	20KP1A0559	MANDUVA RADHE SYAM	EMOTION DETECTON USING DEEP LEARNING	Mrs. D THIRUPATAMMA	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO55
54	20KP1A0560	MAREEDU NAGA PAVAN	FINDING THE BEST FEATURES FOR PREDICTING MODES OF CHILD BIRTH	Mr. G PRAVEEN	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO56

Table2.2.3.0: Project Batch Formation and Guide Allocation for 2020 Batch

The finalization of project teams and their guides is determined by the HOD, taking into account the student's interests and the faculty's domain expertise. The finalized team compositions and assigned guides will be posted on the department notice board for both students and staff.

Types and Relevance of the Projects and their Contribution towards Attainment of POs and PSOs

The purpose of the project is to encourage students to think creatively about developing various software products or technologies with in the field of Computer Science and Engineering.

Students are expected to:

- Conduct a thorough study of the assigned topic based on the introductory report completed in the seventh semester.
- Analyze and finalize the approach to addressing the problem and writing the problem statement.
- Outline the steps for conducting the investigation, including coordination with in the team (Team Work).
- Carry out detailed analysis, modeling, simulation, design, problem-solving, or experiments as required.
- Develop a final product or process, perform testing, and draw conclusions. If possible, suggest directions for future work.
- Prepare a paper for presentation at conferences or for publication in journals, if desired.
- Prepare documentation in the standard format required for evaluation by the Internal Project Review Committee.

Student projects are categorized into the following types:

Application based: Projects focused on developing practical software applications or systems.

Projects Types	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
Application based	3	2	3	3	2	3	3	3	3	3	2	3	3	2	2

Table2.2.3.5: Mapping of Categorized Projects to Program Outcome

The quality of student projects is maintained by meeting well-defined course outcomes each project considers factors such as environmental impact, safety, ethics, cost, and standards. This is ensured through proper guidance from project mentors and regular project reviews, which focus on achieving the course outcomes. The mapping of Projects is represented in the following table 2.2.3.6

Co No	Course Outcomes for Student Projects	Relevance to POs/ PSOs	
		POs	PSOs
CO1	Identify, select and analyze an engineering problem to find an appropriate problem solving methodology by following Engineering standards (K4)	PO1-PO9, PO11, PO12	PSO1, PSO2, PSO3
CO2	Make use of modern IT tools to implement the identified problem with ethics and Develop communication skills to present ideas clearly and coherently to specific audience in both the written and oral forms (K3)	PO1-PO7, PO9-PO12	PSO1, PSO2
CO3	Summarize final report using different visualization tools with good Coordination among project members (K5)	PO1-PO6, PO8-PO12	PSO1, PSO2
CO4	Propose future work to enhance there search in the selected domain And engage in life-long learning(K6)	PO12	PSO1, PSO2

Table2.2.3.6: Mapping of project Cos with Pos and PSOs

Table2.2.3.7:Projects contribution to attainment of PO and PS

Batch No (A Section)	Hall Ticket No	Student Name	Project Title	Guide Name	Type of project	Relevance to POs
BATCH-I	21KP1A0501	VARA LAKSHMI	Face and voice	Mr. J. RAMU	Application	POI-PO8, PO9,

	21KP1A0537	MANJULA	recognition for secure authentication system		PO10, PO11, PO12, PSO1, PSO2, PSO3
	21KP1A0560	LASYA GAYATRI			
	21KP1A0526	MOHANA LAKSHMI			
BATCH-II	21KP1A0523	SASI E	AI for cyber threat detection in real time	Dr K NAGESWARA RAO	POI-PO8, PO9, Application
	21KP1A0508	GAYATRI B			PO10, PO11, PO12, PSO1, PSO2, PSO3
	21KP1A0541	BHARGAVI K			
	21KP1A0532	PRATHYUSHA J			
BATCH-III	21KP1A0549	K JAYA NAGA RAJASRI	AI Driven Sentiment analysis of social media trends	Mr. J RAMU	POI-PO8, PO9, Application
	21KP1A0553	K RAVALI			PO10, PO11, PO12, PSO1, PSO2, PSO3
	21KP1A0515	D SUPRIYA			
BATCH-IV	21KP1A0510	B DIVYA	Building AI Models for Interactive Arts and music Generation	Mr. V K PRATAP	POI-PO8, PO9, Application
	21KP1A0533	J KALYANI BAI			PO10, PO11, PO12, PSO1, PSO2, PSO3
	21KP1A0534	J RAMYA			
	21KP1A0539	K CHATHURYA			
BATCH-V	21KP1A0529	G TEJASWINI	Face recognition system using multi angle input image	Dr K NAGESWARA RAO	POI-PO8, PO9, Application
	21KP1A0554	LAKSHMI THIRUPATAMMA			PO10, PO11, PO12, PSO1, PSO2, PSO3
	21KP1A0543	K ASHWINI			
	21KP1A0531	I TRIVENI			
BATCH-VI	21KP1A0547	K LAKSHMI PRASANNA	Text to image conversion using advanced generative AI techniques	Mrs. CH BINDU MADHAVI	POI-PO8, PO9, Application
	21KP1A0535	K VISHNU PRIYA			PO10, PO11, PO12, PSO1, PSO2, PSO3
	21KP1A0511	D SANDHYA			
BATCH-VII	21KP1A0519	D KEERTHI	predicting climate change impacts using deep learning	Mrs. Y JESSY KUMARI	POI-PO8, PO9, Application
	21KP1A0548	K MADHURI			PO10, PO11, PO12, PSO1, PSO2, PSO3
	21KP1A0558	M LAKSHMI THIRUPATAMMA			
BATCH-VIII	21KP1A0559	M SAI BAJI	Forecasting cryptocurrencies prices using AI models	Mrs. P RATNA KUMARI	POI-PO8, PO9, Application
	21KP1A0551	K VAMSI SANKAR REDDY			PO10, PO11, PO12, PSO1, PSO2, PSO3
	21KP1A0544	K VENKATA KARTHIK			
	21KP1A0530	G SAI NARENDRA			
	21KP1A0503	B SAI KIRAN			
BATCH-IX	21KP1A0517	D HARI PURNA SHASHANK	Adaptive AI system leveraging contextual learning for dynamic decision making	Mrs. D THIRUPATHAMMA	POI-PO8, PO9, Application
	21KP1A0540	K SAI SANDEEP REDDY			PO10, PO11, PO12, PSO1, PSO2, PSO3
	21KP1A0550	K PRASANTH			
	21KP1A0552	K BOBBY			
	21KP1A0528	G NITHIN BABU			
BATCH-X	21KP1A0556	M KARTHIK	AI Models for predicting student dropout risk in online courses	Mrs. S SUNITHA	POI-PO8, PO9, Application
	21KP1A0524	G HARISH			PO10, PO11, PO12, PSO1, PSO2, PSO3
	21KP1A0518	D UMESH CHANDRA			
	21KP1A0536	K GOPI CHANDRA			
BATCH-XI	21KP1A0545	K GANA HARIKRISHNA	Voice activated tutoring system using AI	Mrs. D THIRUPATHAMMA	POI-PO8, PO9, Application
	22KP5A0509	B GURU LOKESH			PO10, PO11, PO12, PSO1, PSO2, PSO3
	21KP1A0506	B TRIKANTH			
	21KP1A0514	D PHILIP JOY			
BATCH-XII	21KP1A0527	G RAMANJANEYULU	AI Models for	Mr. D KOTESWARA RAO	Application

	21KP1A0521	D SIDDHAIH	fraud detection in financial transaction		PO10, PO11, PO12, PSO1, PSO2, PSO3
	22KP5A0538	K MAHESH REDDY			
	21KP1A0516	D VENKATA NARESH			
BATCH-XIII	21KP1A0513	C ABHILASH	Predictive analysis of stock market trends	Dr K NAGESWARA RAO Application	PO1-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO3
	21KP1A0507	D AVINASH			
	21KP1A0561	M MAHESH BABU	using deep learning		
	21KP1A0512	C MANIKANTA SAI			

Process for Monitoring and Evaluation

Project Monitoring

The progress of project work is continuously monitored through a series of three Project Reviews. These reviews assess both the quality and advancement of the project. The Project Review Committee (PRC), which observes these evaluations, comprises the Project Guide, Project Coordinator, one senior faculty member, and the HOD. Below is a sample circular for the Project Schedule and an Activity Calendar will be maintained by PRC

Department of Computer Science and Engineering

NRIIT/CSE/Student-Project/2024-25 Date:23-12-2024

IV B-TECH MAIN PROJECT ASSESSMENT SCHEDULE (2020-2024 BATCH)

All the IV year students are hear by informed to follow project work reviews schedule as given. All the faculty members are requested to coordinate and guide their respective project work batches accordingly. The review consists of assignment of each student in the project batch by the project guides and by the PRC. The internal assessments will be done based on performance in review. The scope of reviews and marks will be listed in project Rubrics

S.No	Review & Assessment (RA)	Scope	Schedule	Marks
1	0th Review	Project Selection	25-01-2025	-
2	1st Review	Abstrat - 5M	15-02-2025	
		Existing System & its Drawbacks-10M	to 22-02-2025	20
		Proposed System - 5M		
3	2nd Review	Project Architecture - 10M	01-03-2025	
		Design Methodology - 10M	to 06-03-2025	30
		Implementation - 10M		
4	Final Review	Testing - 3M	29-03-2025	
		Documentation - 5M	to 03-04-2025	10
		Presentation - 2M		
5	Final documentation Submission	Document Submission	12-04-2025	-

Project Evaluation

The project is designed to challenge and show case the student's innovative and analytical abilities, allowing them to integrate and apply knowledge from various disciplines. Evaluation of the project will occur at the end of the fourth year, with a total of 200 Marks allocated. Of these, 60 Marks are designated for Internal Evaluation and 140 Marks for External Evaluation.

Internal Evaluation is monitored by PRC. Similarly, for External Evaluation, external examiner will be designated by the affiliated University (JNTUK).

- The project review involves assessing individual student's power-point presentations on their completed work and their plan of action for the remaining tasks.

The assessment considers factors such as environment, safety, ethics, cost, applicable standards, teamwork, and alignment with CO-PO/PSO mapping.

Suggestions provided by the panel or other faculty members must be incorporated by the students, and these will be reviewed in subsequent reviews.

The evaluation format and power-point presentations are used to assess both individual and team performance.

Rubrics for project work assessment have been incorporated.

Review Number	Agenda	Review Assessment Weightage (Marks)	Overall Weightage (Marks)
0	Project Selection	-	60 Marks
1	First Review	20	
2	Mid Term Review	30	
3	Final Review	10	

Table2.2.3.8: Rubrics for evaluation of UG Project Work

- Internal Evaluation: It is based on the basis of three review presentations given by each individual in a team on the topic of their project.
- External Evaluation: It is done at the end of the semester by the external evaluator appointed by (JNTUK) University.

SNO	Agenda	Rubric Parameters	Review Assessment Weightage (Marks)	Overall Weightage
1	Abstract	Abstract overview.	5	20 Marks
2	Existing methods and Their Draw backs	Explanation of Existing Methods and their drawbacks.	10	
3	Proposed Methodology	Proposed method and Novelty.	5	

Table2.2.3.9: Rubrics for Evaluation of First Review

S NO	Agenda	Max Marks	Rubric Parameters	Level of Achievement		
				Excellent (20)	Good (18)	Poor (15)
1	Abstract	5	Abstract overview.	Abstract provided a concise overview.	Abstract was informative but could be more concise.	Abstract lacked clarity.
2	Existing methods and their Drawbacks	10	Explanation of Existing Methods and their drawbacks.	Effectively explained the existing method and clearly outlined its drawbacks.	Explained the existing method, but the drawbacks could have been presented with more clarity.	Existing method and drawbacks was not explained clearly.
3	Proposed Methodology	5	Proposed method and Novelty.	Proposed method was innovative and well-justified.	Proposed method was well-conceived, but there was some room for more detailed explanation.	Proposed method was not explained clearly.

Table2.2.3.10: First Review Project Evaluation

S NO	Agenda	Rubric Parameters	Review Assessment Weightage (Marks)	Overall Weightage
1	Project Architecture	Sequence and Clarity in Architecture	10	30 Marks
2	Design Methodology	Conceptual design, Division of problem into modules.	10	
3	Implementation	Algorithm and Coding	10	

Table2.2.3.11: Rubrics for Evaluation of Mid Term Review

Process to assess Individual and team Performance

All projects are evaluated both on a batch-wise and individual basis. The grading rubric is provided with the problem statement, and evidence of group participation is incorporated into the grading procedure. To achieve the highest marks, continuous assessment by the project guide is maintained.

Evaluation Criteria:

Continuous Assessment:

- **Daily Reviews:** The project guide conducts daily reviews to assess the progress of the group and the interaction among students. This helps in obtaining a qualitative measure of group and individual performance.
- **Literature Survey and Presentation:** Weightage is given to the literature survey and presentations, evaluated both at the batch level and for individual contributions.

Quantitative Measures:

Attendance: Regular attendance is considered in the evaluation

Group Evaluation: Group performance is assessed to gauge collective effort and outcomes

Student Evaluation Form:

At every review session and at the end of the project, each student is required to fill out an evaluation form the form includes ratings for all group members, including themselves, based on the following criteria:

1. **Overall Contribution:** Rank each batch member's overall contribution to the project
2. **Time and Effort:** Assess the amount of time and effort each member contributed to the project
3. **Willingness to Collaborate:** Evaluate each member's willingness to work with other group members
4. **Exceptional Contributions:** Determine if any member provided exceptional input to the project
5. **Completion of Assigned Tasks:** Rate how well each member completed their assigned part of the project
6. **Understanding of the Project:** Assess how well each member understood all parts of the project

Quality of Completed Projects/Working Prototypes

The projects quality is assessed by the PRC and few projects are identified as **best projects** depending on the **domains meeting industry 4.0**. The emerging areas include machine learning, deep learning, blockchain, big data analytics, cloud computing, computer vision and Internet of things.

Process for selecting the Best Projects:

1. Establish specific criteria like creativity & innovation, technical complexity, execution, research, and presentation to ensure fair assessment.
2. Carefully score each project against the criteria to gauge quality and impact.
3. Hold discussions among evaluators to consider both quantitative scores and qualitative insights.
4. Provide feedback to all participants, highlighting strengths and areas for improvement to encourage future development.
5. Choose the top projects based on scores and discussions.

Criteria	Excellent (9M-10M)	Very Good (6M-8M)	Good (<6M)
Creativity & Innovation	Highly original and creative idea.	Some what original; presents new insights or approaches.	Limited originality; mostly derivative work.
Technical Complexity	Highly complex, demonstrating advanced skills and understanding.	Moderately complex; demonstrates a good level of technical understanding.	Some complexity; basic skills are applied effectively.
Execution	Flawless implementation with thorough attention to detail using modern tools.	Minor errors; overall well-executed.	Several issues; execution needs improvement.
Research & Analysis	Thorough research; insights are well-founded and clearly articulated.	Good research; some insights presented, though not thoroughly explored.	Basic research; limited analysis or insights.
Presentation Skills	Exceptionally clear, engaging, and professional presentation.	Clear presentation with minor issues; generally engaging.	Adequate presentation; may lack clarity or engagement.

Table 2.3.15: Rubrics for Selection of Best Projects

Projects which are Excellent range are considered as Best Projects

The details of the best three students' project work are given below

S. No	Project Title	Name	Guide Name	Relevance to Pos & PSOs	Domain
1	Face and voice recognition for secure authentication system	VARA LAKSHMI	Mr. J. RAMU	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO3	Biometric Security
		MANJULA			
		LASYA GAYATRI			
		MOHANA LAKSHMI			
2	AI Powered Intrusion Detection System for Networks	VAVILALA LAKSHMI	Mr. Dr NAGESWARA RAO K	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO3	Network Security
		SATYA			
		PAVANI MANASWINI			
		MEDARAMETLA RAJESWARI			
		BANALA VARA PUJITHA			

		PALAPALA SIVA JYOTHI			
		MIRIYAM GAYATHRI			
		UPPU SATHVIKA			
		REGULAGADDA BINDU MADH			
3	AI For Smart Home Automation System for Precision Agriculture	Mrs. CH BINDU MADHAVI	POI-PO8, PO9, PO10, PO11, PO12, PSO1, PSO2, PSO3	Precision Agriculture	
		MOVVA SAI NAGA MAHA LAKSHMI			

Table2.2.3.16: Best three projects in 2021 admitted batch (2021-2025)

Impact Analysis:

- **Skill Enhancement:** Significant improvement in student's skills and abilities across various domains.
- **Encouragement to Creativity:** Students demonstrated innovative ideas, excelling in creative problem-solving.
- **Teamwork Development:** Enhanced team work spirit and collaboration among students.
- **Social and Environmental Impact:** Several projects focused on benefiting the environment and society.
- **Communication Excellence:** Student's presentation and communication skills were notably improved.
- **Boosted Confidence:** The experience led to improved team spirit and higher confidence.

2.2.4 Initiative related to industry interaction (15)

Institute Marks : 15.00

Initiatives Related to Industry Interaction

An Engineering student should be technically and globally competent to acquire the opportunities and should also meet the industrial needs. To meet these objectives, it is necessary to provide industry exposure and a platform to adapt the technological changes. The department frequently takes necessary measures to fulfill the goals.

The implementation details for industry interaction are listed as below:

- Initiate tasks by inviting the industrial members for valuable seminar and guest lectures.
- Invite professional HR and conduct an interaction session personally.
- Encourage the students for industrial visits & training programs.
- Interaction with different esteemed industrial experts like EFFECTRONICS, BRAINO VISION, IVIS, ORACLE ACADEMY, L4G SOLUTIONS and etc
- Conduct training sessions by industrial experts on latest technologies.
- Collect feedback from experts for progressive conduction of events.
- Feedback assessments are noted from students for further improvements.

Industry Supported Laboratories

- With the advent of globalization and opening up of Indian economy to outside world, competition among industries has become stiff. Similarly, there is an emerging need to prepare **engineering students** for jobs in **multinational companies**, by exposing them to newer technologies and engineering methodologies.
- These objectives can only be achieved well by **bridging the gap between industry and the academic institutions**. Better interaction between technical institutions and industry is the need of the hour. This will have great impact on the exposure of engineering students to industry and subsequent placements of young graduating engineers in industries across the country.
- Internet of Things (IOT) lab is established in the department in association with **INNOVATIVE Technologies** and multiple projects are developed in this lab. The department is having MOUs with multiple industries and the industry-institute collaboration that helps in improving student's technical skills.

S. No.	Company Name	Date
1	INNOVATIVE TECHNOLOGIES	15-11-2022
2	ELITE TECHNOLOGIES	09-03-2020
3	GAGAN APPS	19-08-2019
4	SUPRAJA TECHNOLGIES	05-05-2022
5	Softomatic	18-07-2025
6	Future Tech India	06-09-2020

Table2.2.4.1: MOU's with companies

The IOT is a network of physical objects referred to as "things" equipped with electronics, software, sensors, and internet connectivity. This technology enables these objects to collect and exchange data remotely, facilitating real-time communication and automation.

Key Objectives

Innovation: To create and enhance IOT solutions that address specific challenges in various sectors.

Prototyping: To design and iterate on new IOT devices and systems in a controlled environment.

Scope of an IOT Lab

The scope of the IOT Lab encompasses a wide range of activities, research areas, and applications aimed at advancing IOT technologies.

Infrastructure

1. Raspberry pi 3-Board.
2. Arduino Uno Kit.
3. NODEMCU Trainer Kit with all sensors.

Projects developed by students in IOT Lab

S. No.	Student details	Project Title	Description	Relevance to Pos & PSOs
	Students of IV B-Tech TT Sem (2024-25) developed this project as a part of Project Expo.			
	21KP1A0566-MIRIYAM GAYATHRI	Air Monitoring System	A device that monitors Quality and reports air quality data, useful for urban environments and Industrial areas.	P01toP012, PS01, PS02, PS03
1.	21KP1A05A9-UPPU SATHVIKA 21KP1A0568-MOVVA NAGA MAHA LAKSHMI	SAI		

2.	Students of TVB. Tech TT Sem (2023-24) developed this project as a part of Project Expo. 20KP1A0526-GADDAM BALANKI REDDY 20KP1A0539-JANDHYALA SITHIKANTA MURTHY 20KP1A0578-PATHURI RAMADEVI	Smart Management System	Waste	A solution for monitoring waste levels in bins and optimizing collection routes, enhancing the efficiency of waste management.	PO1toPO12 PSO1, PSO2, PSO3
3.	Students of IV B-Tech11 Sem (2022-23) developed this project as apart of Project Expo. 19KP1A0568-MEKALA ANUSHA 19KP1A05B2-THANNEERU VEERA LAKSHMI 19KP1A0582-PATHAN AFREEN KHAN	Health Monitoring System		A system for continuous monitoring of vital signs (e.g., heart rate, temperature) and sending alerts in case of abnormalities.	PO1toPO12 PsO1, PsO2, PsO3

Table2.2.4.2: Projects developed by students in IOT Lab

2.2.5 Initiative related to industry internship/summer training (15)

Institute Marks : 15.00

Initiatives Related to Industry Internship/Summer Training

Industrial/Internship/ Summer Training:

Assessment of **PO & PSO attainment** for the current academic year, feedback analysis from alumni and **industrial experts** helps us to improve the **industry interaction process** for the students. Every year the III & IV B.Tech. Students are motivated to undergo industrial/ internship training during semester break for a period of **at-least two weeks** to get industrial exposure. The students with the support of the department, will approach the industries with a request for seeking training with stipend. The department also interacts with the industry to organize internships in the college. A report on the work carried out during the tenure

S no	Roll number	Student Name	Name Of the internship	company name	start date	end date	Relevance to Po's and PSOs
1	23KP1A0506	A. Venkata Surya Teja	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
2	23KP1A0516	Bellam Nithin kumar	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
3	23KP1A0518	Bobdu Jahnavi	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
4	23KP1A0519	GORIJALA VISHNU VARDHAN	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
5	23KP1A0524	Chandavolu suhitha sharon	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
6	23KP1A0525	CHATLA MANIKYA RAO	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
7	23KP1A0527	CHILUMURU CHANDRA HARSHA SHARMA	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
8	23KP1A0535	DASARI KARTHEEK	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
9	23KP1A0536	Dasari karthik	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
10	23KP1A0541	Sudeep Sai Edara	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
11	23KP1A0542	ELISETTI VENKATESH	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
12	23KP1A0547	Goli Lakshmi Sai Ram	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
13	23KP1A0550	GUNDAPANENI SOWMYASRI	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
14	23KP1A0553	Irulkulapati Mukthasai	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
15	23kp1a0557	JYESTA MADHURI	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
16	23KP1A0558	kakumanu Sai Teja	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
17	23KP1A0576	SUKANYA MANDADAPU	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2

18	23KP1A0583	MEKALA SIDDU	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
19	23KP1A0587	MOTAMARRI JYOTHIRMAI	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
20	23KP1A0597	Sai Krishna Nallapuneni	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
21	23KP1A05A3	Nukasani Lokesh	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
22	23KP1A05C4	REPUDI PRIYANKA	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
23	23KP1A05C7	Saravanabhavansaranya	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
24	23KP1A05C8	S.venkata lakshmi	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
25	23KP1A05C9	Pathlavath kavitha bai	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
26	23KP1A05D5	Shaik Mohammad mahim	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
27	23KP1A05D6	SHAIK PATTABIBI AYESHA	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
28	23KP1A05E0	Naveen singamsetty	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2

29	23KP1A05E5	TANANKI SRAVANTHI	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
30	23KP1A05E6	Jyoshna tanikonda	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
31	23KP1A05E8	Ullangula pavani	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
32	23KP1A05F0	Vaikuntham Vani	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
33	23KP1A05F3	V.Leela Madhuri	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
34	23Kp1Ao526	Cheepuri Hemanth Kumar	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
35	23KP1AO5D7	Shaik Sahedabe	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
36	23KP1AO5F1	Vallapureddy srinadh reddy	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
37	24KP5A0503	Chevula lakshmi annapurna	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
38	24KP5A0505	Sannamareppagari vasundhara	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2

39	24KP5A0508	MIDDE SAI SUSMITHA	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
40	24KP5A0509	Mohd Abdul Bar	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
41	24KP5A0510	MOTHUKURI RATNA BABU	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
42	24KP5A0511	SAMEER BABU PATHURI	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
43	22KP1A0502	Ambati Yathindranath Reddy	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
44	22KP1A0514	Pravallika Bollineni	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
45	22KP1A0521	Bhuvaneswari Chanamala	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
46	22KP1A0532	Eeda Anusha	GENERATIVE AI	NextHub Technologies Pvt. Ltd	20-05-2025	20-7-2025	PO4, PO5, PO6, PO10, PO12, PSO2
47	22KP1A0511	BATTULA TRIVENI	Artificial intelligence	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
48	22KP1A0513	Belly manasa	Artificial intelligence	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
49	22KP1A0517	Bulla Srinivasa Rao	Artificial intelligence	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
50	22KP1A0519	Ch harshavardhan	Artificial intelligence	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
51	22KP1A0526	Chilka sravani	Data science	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
52	22KP1A0533	Lakshmi Epenagandla	Web development	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
53	22KP1A0540	Gollapudi Nirmal Aditya	Artificial intelligence	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
54	22KP1A0541	Gollapudi SuryaTeja	Artificial intelligence	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
55	22KP1A0543	Gorla Navya	Artificial intelligence	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2

56	22KP1A0545	Pujitha Gudipati	Web development	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
57	22KP1A0551	Inavolu Venkata Sai Santhosha Lakshmi	Artificial Intelligence	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
58	22KP1A0557	Kayakakula Badara Bhooshan	Artificial intelligence	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
59	22KP1A0560	Kokkiligadda rajeev	Artificial intelligence	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
60	22KP1A0561	KOLLU SUSHMA	Artificial intelligence	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
61	22KP1A0569	Kurra Umesh	Artificial intelligence	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2
62	22KP1A0573	Makenna vyshnavi	Artificial intelligence	SkillDizer	05-05-2025	20-06-2025	PO4, PO5, PO6, PO10, PO12, PSO2

Table 2.2.5.2: Student batches of internship in 2024-25 provided by NextHub Technologies Pvt. Ltd and SkillDizer

Post Training Assessment I. Internship Certification: The internship certificates have been officially issued to the students who have successfully completed their internship program



Fig 2.2.5.1: Sample Internship Certificates received from NextHub Technologies Pvt. Ltd and SkillDizer

The certificate serves as a formal recognition of their participation, efforts, and achievements throughout the internship period. The Department had conducted Internship training on "Internet of Things" for the II and III BTech students by Industry experts from Purple Technologies. Most of the students had participated and exposed to the new technologies in industries.

Student Feedback on Internship:

Feedback is a powerful tool for learning, improving, and achieving success in both the short and long term. The feedback form is submitted by the students after the completion of internship which helps for further refinement of the process. The following Fig 2.2.5.2 represents a sample feedback form.

NRI INSTITUTE OF TECHNOLOGY
 Approved by AICTE, New Delhi
AUTONOMOUS
 NAAC Accredited, Accredited by MHRD with A+ Grade and ISO 9001:2015 Certified Institution
Department of Computer Science and Engineering
 Name of the organization : NEXTHub Technologies pvt Ltd
 Duration: 2 months

1. How would you rate your overall internship experience ?
 (scale : 1-5 , with 1 being poor and 5 being excellent)
 [1] [2] [3] [4] [5]
 2. How effectively were you able to apply the theoretical knowledge learned during your studies to real-world tasks in the internship?
 (scale : 1-5 , with 1 being poor and 5 being excellent)
 [1] [2] [3] [4] [5]
 3. How well did your mentor/supervisor support your learning and growth During the internship?
 (scale : 1-5 , with 1 being poor and 5 being excellent)
 [1] [2] [3] [4] [5]
 4. Were the resources and tools provided during the internship adequate to complete your task?
 (scale : 1-5 , with 1 being poor and 5 being excellent)
 [1] [2] [3] [4] ✓
 5. How challenging were the tasks assigned to you during the internship ?
 (scale : 1-5 , with 1 being poor and 5 being excellent)
 [1] [2] [3] [4] [5]
 6. Did the internship help you clarify your career goals or interests?
 (Yes / No)
 Yes
 7. Would you recommend this internship program to other students ?
 (Yes / No)
 Yes
 8. What suggestions do you have to improve the internship experience for future students ?
 None

2.2.5.2 Student's feedback on Internship

Industrial Visits Industrial visits help students to develop and understand the process of software design/development and also real time issues. The implementation of industrial tours has shown significant enhancement in the abilities of students, leading to enhanced performance, ultimately resulting in increased placements. • Each semester, students visit industries, providing them with practical experience related to their field of study. • Industrial visits provide students with the opportunity to apply their program-specific knowledge in real time applications.

S. No	Academic Year	Students Visited	Company
1	2024-25	II CSE	ISRO
2	2023-24	II CSE	Hewlett Packard enterprise
3	2023-24	III CSE	Amazon
4	2022-23	III CSE	Coca Cola
3	2022-23	IV CSE	JOCIL

Table 2.2.5.3: Industrial Visit for students



Fig 2.2.5.3: Industrial Visit

Impact Analysis:

- Enhances student's innovative skills and leadership qualities.
- Knowledge on various aspects of software project management was developed.
- In relevance to PO12 and PSO2 students utilize the opportunity.
- Impact of Industrial visits plays a vital role in students placements a lot.

Define the Program specific outcomes**3.1 Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20)**

Total Marks 20.00

PSO1	Develop and deploy software solutions using computing skills and modern tools to meet industry and societal needs.
PSO2	Apply computational principles and advanced tools in collaboration with academia, industry and research to deliver efficient solutions.
PSO3	Pursue emerging technologies and research with professionalism and ethical leadership, fostering lifelong learning and societal impact.

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) (5)

Institute Marks : 5.00

Note : Number of Outcomes for a Course is expected to be around 6.

Course Name :	C2 14	Course Year :	2023-2024
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Course Name	Statements
C2 14.1	Transform an object-oriented design into efficient, high-quality, and executable software code.
C2 14.2	Design, implement, and execute unit and integration test cases to ensure software reliability.
C2 14.3	Compare and evaluate conventional and agile software development methodologies for different project requirements.
C2 14.4	Apply modern software development tools to manage and monitor the software development life cycle effectively.
C2 14.5	Collaborate within teams using agile frameworks to plan, design, implement, and deliver software projects with professionalism.

Course Name :	C2 22	Course Year :	2023-2024
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Course Name	Statements
C2 22.1	Explain the concepts of relational and object-oriented databases with their characteristics and applications.
C2 22.2	Create, maintain, and manipulate relational databases using SQL commands effectively.
C2 22.3	Apply ER modeling and normalization techniques for efficient database design.
C2 22.4	Analyze issues in data storage and query processing, and formulate appropriate solutions.
C2 22.5	Evaluate the role of data management with respect to efficiency, privacy, security, ethical responsibility, and strategic advantage.

Course Name :	C3 15	Course Year :	2023-2024
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Course Name	Statements
C3 15.1	Apply the process to be followed in the software development life-cycle models
C3 15.2	Apply the concepts of project management & planning
C3 15.3	Apply project management principles to implement project plans effectively by managing people, facilitating communications, and adapting to organizational change.
C3 15.4	Conduct activities necessary to successfully complete and close the Software projects.
C3 15.5	Implement communication, modeling, and construction & deployment practices in software development.

Course Name :	C3 24	Course Year :	2023-2024
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Course Name	Statements
C3 24.1	Apply object-oriented principles to identify classes, objects, relationships, and interactions in software systems.
C3 24.2	Develop UML diagrams such as use case, class, sequence, and state diagrams for system specification and modeling.
C3 24.3	Apply design principles and patterns to create efficient, reusable, and maintainable object-oriented software designs.
C3 24.4	Transform object-oriented design models into executable code using modern programming languages.
C3 24.5	Utilize CASE tools and appropriate testing strategies to validate and verify object-oriented systems.

Course Name :	C4 12	Course Year :	2023-2024
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Course Name	Statements
C4 12.1	Apply the fundamentals of neural networks and deep learning architectures for solving real-world problems.
C4 12.2	Design and implement deep learning models using feedforward, convolutional, and recurrent neural networks.
C4 12.3	Analyze optimization techniques, regularization, and hyperparameter tuning to improve deep learning performance.
C4 12.4	Develop and evaluate deep learning solutions using modern frameworks such as TensorFlow / PyTorch.
C4 12.5	Apply deep learning techniques in domains such as computer vision, natural language processing, and reinforcement learning.

Course Name :	C4 21	Course Year :	2023-2024
Course Name	Statements		
C4 21.1	Identify real-time problems and formulate them into research/industry-oriented projects using appropriate tools and technologies.		
C4 21.2	Apply software engineering principles, modern tools, and computational skills to design and develop efficient solutions		
C4 21.3	Demonstrate teamwork, leadership, communication, and project management skills during project execution.		
C4 21.4	Analyze and present project outcomes through technical reports, presentations, and demonstrations with professional ethics.		
C4 21.5	Engage in independent learning, research exploration, and adapt to emerging technologies for societal and industrial needs		

3.1.2 CO-POmatrices of courses selected in 3.1.1(Six matrices to be mentioned; one per semester from 3rd to 8th semester) (5)

Institute Marks : 5.00

1 . course name : C214

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	2 ✓	3 ✓	2 ✓	1 ✓	2 ✓	2 ✓	- ✓	- ✓	1 ✓	1 ✓	- ✓	1 ✓
C214.2	1 ✓	2 ✓	2 ✓	2 ✓	3 ✓	3 ✓	- ✓	- ✓	1 ✓	1 ✓	- ✓	1 ✓
C214.3	2 ✓	1 ✓	1 ✓	1 ✓	1 ✓	1 ✓	- ✓	1 ✓	1 ✓	1 ✓	1 ✓	1 ✓
C214.4	1 ✓	1 ✓	1 ✓	1 ✓	3 ✓	3 ✓	- ✓	- ✓	1 ✓	1 ✓	- ✓	1 ✓
C214.5	1 ✓	1 ✓	1 ✓	1 ✓	1 ✓	1 ✓	- ✓	- ✓	3 ✓	2 ✓	1 ✓	1 ✓
Average	1.00	2.00	1.00	1.00	2.00	2.00	0.00	0.00	1.00	1.00	0.00	1.00

2 . course name : C222

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C222.1	3 ✓	2 ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓
C222.2	3 ✓	- ✓	2 ✓	- ✓	3 ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓
C222.3	2 ✓	3 ✓	3 ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	2 ✓	- ✓
C222.4	- ✓	3 ✓	- ✓	- ✓	- ✓	- ✓	2 ✓	- ✓	- ✓	- ✓	- ✓	- ✓
C222.5	- ✓	- ✓	- ✓	- ✓	2 ✓	3 ✓	3 ✓	2 ✓	3 ✓	- ✓	- ✓	- ✓
Average	3.00	3.00	3.00	2.00	3.00	3.00	2.00	3.00	0.00	0.00	2.00	0.00

3 . course name : C315

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	3 ✓	2 ✓	3 ✓	- ✓	2 ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓
C315.2	2 ✓	3 ✓	2 ✓	3 ✓	2 ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓
C315.3	2 ✓	2 ✓	2 ✓	2 ✓	3 ✓	2 ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓
C315.4	1 ✓	2 ✓	1 ✓	2 ✓	2 ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓
C315.5	2 ✓	2 ✓	3 ✓	2 ✓	3 ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓
Average	2.00	2.00	2.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4 . course name : C324

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C324.1	3 ✓	3 ✓	2 ✓	3 ✓	2 ✓	1 ✓	1 ✓	- ✓	- ✓	- ✓	- ✓	2 ✓
C324.2	3 ✓	2 ✓	3 ✓	2 ✓	3 ✓	- ✓	- ✓	- ✓	- ✓	2 ✓	- ✓	2 ✓
C324.3	3 ✓	2 ✓	3 ✓	3 ✓	3 ✓	- ✓	- ✓	- ✓	- ✓	2 ✓	2 ✓	2 ✓
C324.4	3 ✓	2 ✓	3 ✓	2 ✓	3 ✓	- ✓	- ✓	- ✓	2 ✓	2 ✓	2 ✓	2 ✓
C324.5	3 ✓	2 ✓	3 ✓	3 ✓	3 ✓	- ✓	- ✓	- ✓	2 ✓	2 ✓	2 ✓	2 ✓
Average	3.00	2.00	3.00	3.00	3.00	0.00	0.00	0.00	1.00	2.00	1.00	2.00

5 . course name : C412

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	3 ✓	3 ✓	- ✓	- ✓	2 ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	1 ✓
C412.2	3 ✓	2 ✓	- ✓	- ✓	2 ✓	2 ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓
C412.3	2 ✓	2 ✓	- ✓	- ✓	3 ✓	3 ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓

C412.4	3 ✓	2 ✓	- ✓	2 ✓	3 ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓
C412.5	2 ✓	3 ✓	- ✓	3 ✓	3 ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	- ✓	1 ✓
Average	3.00	2.00	0.00	3.00	3.00	0.00							

6 . course name : C421

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C421.1	3 ✓	3 ✓	3 ✓	2 ✓	2 ✓	2 ✓	2 ✓	2 ✓	2 ✓	2 ✓	2 ✓	2 ✓
C421.2	3 ✓	3 ✓	3 ✓	2 ✓	3 ✓	2 ✓	2 ✓	2 ✓	2 ✓	2 ✓	2 ✓	2 ✓
C421.3	2 ✓	2 ✓	2 ✓	1 ✓	2 ✓	2 ✓	2 ✓	3 ✓	3 ✓	3 ✓	3 ✓	2 ✓
C421.4	2 ✓	2 ✓	2 ✓	2 ✓	2 ✓	2 ✓	2 ✓	3 ✓	3 ✓	3 ✓	3 ✓	2 ✓
C421.5	3 ✓	2 ✓	3 ✓	3 ✓	3 ✓	3 ✓	3 ✓	2 ✓	2 ✓	2 ✓	2 ✓	3 ✓
Average	3.00	2.00	3.00	2.00								

1 . Course Name : C214

Course	PSO1	PSO2	PSO3
C214.1	3	✓	2
C214.2	3	✓	2
C214.3	2	✓	3
C214.4	3	✓	3
C214.5	2	✓	3
Average	3.00	3.00	1.00

2 . Course Name : C222

Course	PSO1	PSO2	PSO3
C222.1	2	✓	2
C222.2	3	✓	2
C222.3	2	✓	2
C222.4	-	✓	3
C222.5	-	✓	-
Average	1.00	2.00	1.00

3 . Course Name : C315

Course	PSO1	PSO2	PSO3
C315.1	3	✓	2
C315.2	3	✓	2
C315.3	2	✓	2
C315.4	3	✓	2
C315.5	3	✓	3
Average	3.00	2.00	2.00

4 . Course Name : C324

Course	PSO1	PSO2	PSO3
C324.1	2	✓	2
C324.2	3	✓	2
C324.3	3	✓	3
C324.4	2	✓	3
C324.5	2	✓	3
Average	2.00	3.00	2.00

5 . Course Name : C412

Course	PSO1	PSO2	PSO3
C412.1	3	✓	2
C412.2	3	✓	2
C412.3	3	✓	3
C412.4	3	✓	3
C412.5	3	✓	3

Average	3.00	3.00	2.00	
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6 . Course Name : C421

Course	PSO1	PSO2	PSO3
C421.1	3 ✓	3 ✓	2 ✓
C421.2	3 ✓	3 ✓	3 ✓
C421.3	2 ✓	2 ✓	2 ✓
C421.4	2 ✓	2 ✓	2 ✓
C421.5	3 ✓	2 ✓	3 ✓
Average	3.00	2.00	2.00

3.1.3 - A Program level Course-PO matrix of all courses INCLUDING first year courses (10)

Institute Marks : 10.00

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	2	3	PO11	2
C112	3	2	2	2	3	PO6	1	PO8	PO9	PO10	PO11	1
C113	3	2	2	2	2	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C114	3	2	2	3	3	2	2	PO8	PO9	1	1	1
C115	2	3	2	3	2	1	1	1	1	1	3	1
C116	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	2	3	PO11	2
C117	3	2	1	2	PO5	2	PO7	PO8	1	PO10	1	PO12
C118	3	2	1	1	PO5	PO6	PO7	PO8	PO9	PO10	PO11	2
C119	2	2	2	3	2	1	1	1	1	1	3	1
C121	3	1	2	2	PO5	1	PO7	PO8	PO9	PO10	PO11	PO12
C122	3	2	2	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1
C123	3	3	2	2	3	3	2	2	2	3	2	3
C124	3	2	2	1	2	1	1	2	2	1	1	2
C125	2	3	2	2	3	2	PO7	2	3	2	2	PO12
C126	3	3	2	2	2	1	1	1	1	1	1	2
C127	2	1	2	3	PO5	PO6	PO7	PO8	1	PO10	PO11	1
C128	3	3	2	2	3	3	2	PO8	2	2	2	3
C129	3	2	2	2	2	1	1	2	2	1	1	2
C211	3	3	3	2	2	PO6	PO7	PO8	PO9	PO10	PO11	1
C212	3	3	3	2	2	PO6	PO7	PO8	1	2	PO11	2
C213	3	3	2	2	2	PO6	PO7	PO8	1	1	PO11	2
C214	1	2	1	1	2	2	PO7	PO8	1	1	PO11	1
C215	3	3	PO3	PO4	PO5	PO6	PO7	PO8	1	1	PO11	PO12
C216	3	2	3	2	2	PO6	PO7	PO8	1	2	PO11	2
C217	2	3	2	2	3	2	1	PO8	2	2	3	PO12
C218	2	3	2	2	3	2	1	PO8	2	2	3	PO12
C219	3	3	2	2	3	PO6	PO7	PO8	1	1	1	2
C221	2	3	PO3	PO4	PO5	PO6	PO7	PO8	2	1	PO11	PO12
C222	3	3	3	2	3	3	2	3	PO9	PO10	2	PO12

C223	3	2	2	2	2	PO6	PO7	1	PO9	1	1	1	2
C224	3	2	3	1	3	PO6	PO7	PO8	1	1	PO11	2	
C225	2	2	2	1	PO5	PO6	PO7	2	3	3	3	PO12	
C226	3	2	2	PO4	3	PO6	PO7	PO8	2	PO10	PO11	PO12	
C227	2	3	2	2	3	PO6	PO7	PO8	PO9	2	2	2	
C228	3	3	3	2	2	PO6	PO7	PO8	PO9	2	PO11	1	
C229	2	2	2	1	PO5	1	PO7	1	PO9	PO10	PO11	PO12	
C311	3	3	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	3	
C312	PO1	3	3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	2	
C313	3	3	2	2	3	1	1	1	1	1	PO11	2	
C314	3	3	3	3	2	PO6	PO7	PO8	1	1	PO11	1	
C315	2	2	2	2	2	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
C316	2	3	2	2	2	2	1	1	2	1	1	1	
C317	3	2	2	PO4	3	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
C318	3	2	2	2	2	1	1	2	3	2	2	3	
C319	2	2	2	1	2	1	1	2	2	2	2	2	
C321	3	3	2	2	3	PO6	PO7	1	1	1	PO11	2	
C322	3	3	3	2	2	PO6	PO7	PO8	PO9	2	PO11	1	
C323	3	3	2	2	3	PO6	PO7	1	PO9	1	1	2	
C324	3	2	3	3	3	PO6	PO7	PO8	1	2	1	2	
C325	2	2	3	2	3	PO6	PO7	PO8	PO9	1	1	2	
C326	3	3	3	2	3	PO6	PO7	1	1	1	1	2	
C327	3	3	3	2	3	1	PO7	1	1	2	PO11	2	
C328	3	2	3	2	3	PO6	PO7	PO8	1	1	PO11	2	
C329	3	3	2	3	3	2	3	3	2	3	3	2	
C411	2	3	1	2	3	1	PO7	2	PO9	2	PO11	2	
C412	3	2	PO3	3	3	PO6	PO7	PO8	PO9	PO10	PO11	1	
C413	2	3	2	2	3	1	PO7	3	1	1	2	3	
C414	3	2	2	2	2	1	1	1	2	2	1	2	
C415	3	3	2	3	2	2	2	1	1	2	1	2	
C416	3	3	3	3	3	3	3	3	3	PO10	PO11	PO12	
C417	3	2	2	2	3	PO6	PO7	1	1	1	1	2	
C418	3	2	2	2	2	2	2	3	2	2	3	2	
C421	3	2	3	2	2	2	2	2	2	2	2	2	

3.1.3 - B Program level Course-PSO matrix of all courses INCLUDING first year courses

Course	PSO1	PSO2	PSO3
C111	PSO1	PSO2	PSO3
C112	PSO1	PSO2	PSO3
C113	PSO1	PSO2	PSO3
C114	PSO1	PSO2	PSO3
C115	2	3	2
C116	PSO1	PSO2	PSO3

C117	PSO1	PSO2	PSO3
C118	PSO1	PSO2	PSO3
C119	3	3	2
C121	PSO1	PSO2	PSO3
C122	PSO1	PSO2	PSO3
C123	PSO1	PSO2	PSO3
C124	2	3	2
C125	2	2	1
C126	3	3	1
C127	PSO1	PSO2	PSO3
C128	PSO1	PSO2	PSO3
C129	3	3	1
C211	3	3	2
C212	3	2	2
C213	3	3	2
C214	3	3	1
C215	3	3	2
C216	3	3	1
C217	2	3	2
C218	2	3	2
C219	3	3	2
C221	PSO1	PSO2	PSO3
C222	2	2	2
C223	2	3	2
C224	3	3	2
C225	1	1	2
C226	3	2	PSO3
C227	3	3	2
C228	3	3	2
C229	2	3	1
C311	3	2	2
C312	2	2	2
C313	3	3	2
C314	3	2	2
C315	3	2	2
C316	2	3	2
C317	3	2	3
C318	3	2	3
C319	2	2	2
C321	2	3	2
C322	3	2	3
C323	3	3	1
C324	2	3	2

C325	3	3	1
C326	3	3	2
C327	3	3	2
C328	3	3	2
C329	3	3	2
C411	2	2	2
C412	3	3	2
C413	3	2	3
C414	3	3	2
C415	3	2	1
C416	3	3	3
C417	3	3	2
C418	3	2	2
C421	3	2	2

3.2 Attainment of Course Outcomes (50)

Total Marks 50.00

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

Institute Marks : 10.00

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

(Examples of data collection processes may include, but are not limited to, specific exam/tutorial questions, assignments, laboratory tests, project evaluation, student portfolios (A portfolio is a collection of artifacts that demonstrate skills, personal characteristics and accomplishments created by the student during study period), internally developed assessment exams, project presentations, oral exams etc.)

NRI Institute of Technology, affiliated to **JNTUK**, follows the **R20 Regulation** for students admitted in the academic years **2020-21, 2021-22, 2022-23, 2023-24** respectively. The assessment tools for evaluating Course Outcomes in the B.Tech program under these regulations include midterm examinations, assignments, online quizzes, project work, seminars, laboratory internal examinations, day-to-day lab course evaluations, and end-semester examinations for both theory and laboratory courses.

Course outcomes are statements that specify what a learner will know or be able to do as a result of a learning activity. Outcomes are usually expressed as knowledge, skills, or attitudes. It is a measurable, observable, and specific statement that clearly indicates what a student should know and be able to do as a result of learning. It describes what students are able to demonstrate in terms of knowledge, skills and values upon completion of a course/a span of several courses. **Program Outcomes** (Pos) describe what a program is expected to accomplish. Pos describe what students should know and be able to do at the end of the programme. Pos are to be in line with the graduate attributes as specified in the NBA. **Program Specific Outcomes** (PSOs) are statements that describe what the graduates of a specific engineering program should be able to do. Clear articulation of course outcomes, Pos and PSOs serves as the foundation for evaluating the effectiveness of the teaching and learning process. Course correlation matrix shows the learning relationship (Level of Learning Achieved) between Course Outcomes and Program Outcomes of a course. This matrix strongly indicates whether the students are able to achieve the course objectives/outcomes.

The matrix can be used for any course and is a good way to evaluate a course syllabus/content/structure.

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

1. Performance of students in the Internal Examinations.
2. Performance of students in the Semester End Examinations.

Direct assessment tools: Internal Examinations and External Examinations.

Indirect assessment tool: Course End Survey.

Theory Courses:

- Under the **R20 Regulation**, theory courses are evaluated with 30 marks allocated for internal assessments and 70 marks for the end-semester examinations. During the semester, two midterm exams are conducted.
- The internal marks, totalling 30, are distributed as follows: 15 marks for descriptive exams, 5 marks for assignments (which may involve theory, design, analysis, simulation, algorithms, or drawing, depending on the course), and 10 marks for an online quiz. The online quiz is conducted at the college level and consists of 20 multiple-choice questions, each carrying a weightage of 0.5 marks.
- The online quiz test for 20 minutes, while the subjective exam is 90 minutes long. The subjective exam includes 3 questions, all of which must be answered.
- The syllabus is divided into 5 units. The first midterm exam (both online quiz and subjective) covers units 1, 2, and the first half of the 3. The second midterm exam covers the second half of unit 3 and 4, 5.
- The end-semester examination, conducted by JNTUK, covers the entire syllabus and is worth 70 marks. It consists of 10 questions (two from each unit, with an internal choice), and students must answer five out of these 10 questions with each question carrying 14 marks.

Laboratory Courses:

- For laboratory courses, continuous evaluation during the semester accounts for 15 internal marks, while the end-semester examination is worth 35 marks.
- The internal marks are awarded as follows: 5 marks for day-to-day evaluation, 5 marks for maintaining a lab record, and 5 marks based on an internal laboratory exam.
- The end-semester lab examination is conducted by the concerned faculty along with an external examiner appointed by JNTUK.

Project Work:

- The project work is evaluated out of a total of 200 marks, with 60 marks allotted for internal evaluation and 140 marks for the end-semester examination. The end-semester examination, which includes a viva-voice, is conducted by a committee comprising an external examiner appointed by JNTUK, the Head of the Department, and the project supervisor.
- The internal evaluation is based on three project reviews presented by each student, which are assessed by an internal committee. The project evaluation takes place at the end of the fourth year.

Internship:

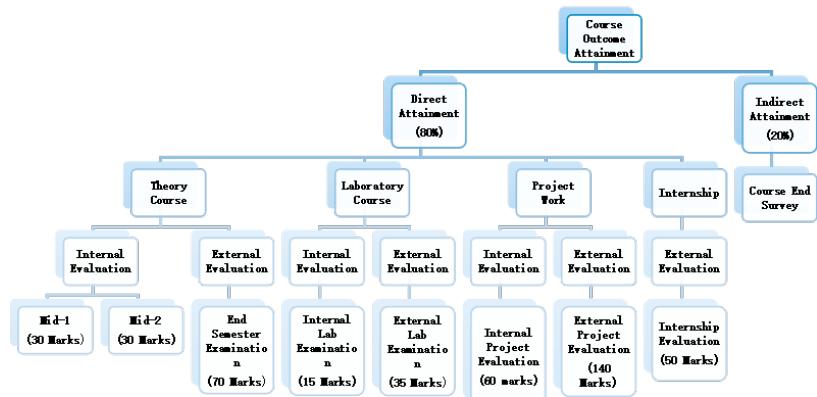
The internship, evaluated for a total of 50 marks, is designated by APSHE (Andhra Pradesh State Council of Higher Education). The evaluation is based on several components, including the internship report, where students document their experiences in detail, and a presentation summarizing their work, challenges faced, and the outcomes achieved. Feedback from the industry supervisor, who assesses the student's performance and professionalism during the internship, is also considered. The evaluation is conducted by a committee comprising an internal faculty supervisor, who oversees the student's progress and evaluates the report and presentation, and an external evaluator appointed by JNTUK, who ensures that the assessment aligns with university standards.

Indirect Attainment:

At the end of every semester, a course end survey is taken for every course from which indirect attainment is calculated.

S. No	Assessment Components	Distribution of Marks		R20 Regulation	Credits
		Internal	External		

1	Theory/drawing	30			70	3
		Descriptive	Assignment	Online		
		15	5	10		
2	Laboratory courses	15			35	1.5
3	Internship	NA			50	1.5/3
4	Project Work	60			140	12



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

Institute Marks : 40.00

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

Attainment Calculation:

The overall attainment of course outcomes is determined through a combination of direct and indirect assessments.

Direct Attainment involves evaluating marks obtained from various assessments:

- **Internal Marks:** These include marks from midterm exams (descriptive, quizzes, and assignments), laboratory assessments (day-to-day performance, internal marks, and records), seminars, and projects.
- **External Marks:** These are derived from end-semester examinations.

For each course, 4 to 6 survey questions are designed to gather student feedback in a course-end survey, which constitutes the **Indirect Attainment**.

The weightage of each Course Outcome (CO) is calculated based on the marks obtained in descriptive exams, one-third of the online quiz marks, and one-third of the assignment marks.

Direct Attainment Calculation: A target value is set for internal and end-semester examination attainment. The internal examination target is 30%, while the end-semester examination target is 70%. These target values are converted into percentages to measure the course's achievement.

Attainment Level:

LEVEL 1: >=40 - <50% Marks

LEVEL 2: <=50 - <70% Marks

LEVEL 3: >=70% Marks

EXTERNAL ASSESSMENT
2022-2023 BATCH

COURSE:DATABASE MANAGEMENT SYSTEMS CODE:C222
BRANCH:-CSE SEM:II

SL.No	REG.NO	UNIVERSITY GRADES
1	22KP1A0501	D
2	22KP1A0502	C
3	22KP1A0503	F
4	22KP1A0504	F
5	22KP1A0505	F
6	22KP1A0506	C
7	22KP1A0507	F
8	22KP1A0508	F
9	22KP1A0509	E
10	22KP1A0510	C
11	22KP1A0511	B
12	22KP1A0512	C
13	22KP1A0513	C
14	22KP1A0514	C
15	22KP1A0516	F
16	22KP1A0517	C
17	22KP1A0518	C
18	22KP1A0519	C
19	22KP1A0520	E
20	22KP1A0521	D
21	22KP1A0522	D
22	22KP1A0523	D
23	22KP1A0524	D
24	22KP1A0525	F
25	22KP1A0526	C
26	22KP1A0528	D
27	22KP1A0529	F
28	22KP1A0530	F
29	22KP1A0531	F
30	22KP1A0532	C
31	22KP1A0533	D
32	22KP1A0534	A
33	22KP1A0535	C
34	22KP1A0536	E
35	22KP1A0537	D

36 22KP1A0538 C
37 22KP1A0539 D
38 22KP1A0540 B
39 22KP1A0541 D
40 22KP1A0542 C
41 22KP1A0543 D
42 22KP1A0544 E
43 22KP1A0545 D
44 22KP1A0546 D
45 22KP1A0547 C
46 22KP1A0548 A
47 22KP1A0549 E
48 22KP1A0550 D
49 22KP1A0551 C
50 22KP1A0552 C
51 22KP1A0553 D
52 22KP1A0554 F
53 22KP1A0555 F
54 22KP1A0556 A
55 22KP1A0557 D
56 22KP1A0558 C
57 22KP1A0559 E
58 22KP1A0560 B
59 22KP1A0561 B
60 22KP1A0563 ABSENT
61 22KP1A0564 D
62 22KP1A0565 E
63 22KP1A0566 D
64 22KP1A0567 C
65 22KP1A0568 D
66 22KP1A0569 D
67 22KP1A0570 F
68 22KP1A0571 A+
69 22KP1A0572 D
70 22KP1A0573 E
71 22KP1A0574 D
72 22KP1A0575 A
73 22KP1A0576 F
74 22KP1A0577 C
75 22KP1A0578 D
76 22KP1A0579 E
77 22KP1A0580 C
78 22KP1A0581 C
79 22KP1A0582 C
80 22KP1A0583 D
81 22KP1A0584 E
82 22KP1A0585 C
83 22KP1A0586 E
84 22KP1A0587 C
85 22KP1A0588 D
86 22KP1A0589 E
87 22KP1A0590 C
88 22KP1A0591 E
89 22KP1A0592 D
90 22KP1A0593 C
91 22KP1A0594 F
92 22KP1A0595 D
93 22KP1A0596 E
94 22KP1A0597 F
95 22KP1A0598 E
96 22KP1A0599 C
97 22KP1A05A0 D
98 22KP1A05A1 F
99 22KP1A05A2 F
100 22KP1A05A3 D
101 22KP1A05A4 D
102 22KP1A05A5 F

103	22KP1A05A6	C
104	22KP1A05A7	A+
105	22KP1A05A8	F
106	22KP1A05A9	B
107	22KP1A05B0	C
108	22KP1A05B1	F
109	22KP1A05B2	D
110	22KP1A05B3	B
111	22KP1A05B4	E
112	22KP1A05B5	D
113	22KP1A05B6	C
114	22KP1A05B7	E
115	22KP1A05B8	D
116	22KP1A05B9	A
117	22KP1A05C0	D
118	22KP1A05C1	C
119	22KP1A05C2	E
120	22KP1A05C3	A
121	22KP1A05C4	E
122	22KP1A05C5	C
123	22KP1A05C9	D
124	22KP1A05D1	B
125	22KP1A05D2	C
126	22KP1A05D3	D
127	22KP1A05D4	E
128	22KP1A05D5	C
129	22KP1A05D6	D
130	22KP1A05D7	B
131	22KP1A05D8	D
132	22KP1A05D9	C
133	22KP1A05E0	D
134	22KP1A05E1	D
135	23KP5A0501	C
136	23KP5A0502	F
137	23KP5A0503	ABSENT
138	23KP5A0504	E
139	23KP5A0505	c

No: of students absentees 2
 No: of students attended 137

Target Grade : D or above				
D	C	B	A	A+
40	38	8	6	2
94				

Students scored above target : 94
 Percentage students scored more than target : 69%
 CO Attainment Level : 2

3.3 Attainment of Program Outcomes and Program Specific Outcomes (50)

Total Marks 50.00

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)

Institute Marks : 10.00

The attainment of Program Outcomes (PO) is assessed through two key components: Direct Attainment and Indirect Attainment.

1. Direct Attainment: This involves calculating the attainment based on the marks students achieve in all courses, providing a quantitative measure of their academic performance.
2. Indirect Attainment: This is assessed by gathering feedback from stakeholders, such as students, alumni, and employers, regarding the effectiveness of the program outcomes, as illustrated in Fig.3.3.1.

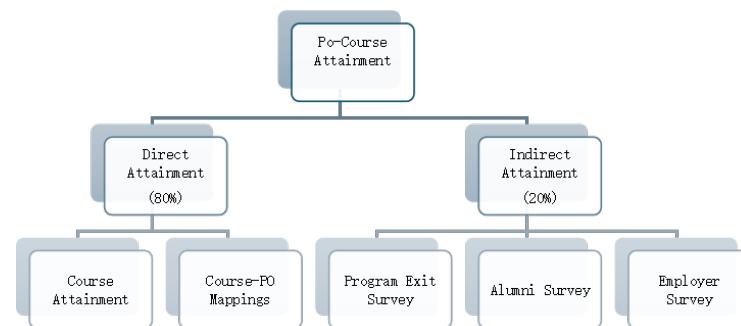
1. Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)

The attainment of Program Outcomes (PO) is assessed through two key components: Direct Attainment and Indirect Attainment.

1. **Direct Attainment:** This involves calculating the attainment based on the marks students achieve in all courses, providing a quantitative measure of their academic performance.
2. **Indirect Attainment:** This is assessed by gathering feedback from stakeholders, such as students, alumni, and employers, regarding the effectiveness of the program outcomes, as illustrated in Fig.3.3.1.

Assessment Tools	Assessment component			
Direct attainment (80% weightage)	Theory	Internal Assessment	Internal mid exams	
			Assignments	
			Online exams	
	Semester end exams			
	Laboratory	Internal Assessment	Day to day performance	
			Record	
			Internal lab exam	
	Semester end exams			
	Seminar	Presentation and Reports		
	Project	Reviews		
		Report		
		External viva voce		
	Course End Survey			
Indirect attainment (20% weightage)	Program Exit Survey			

Table 3.3.1.1: Assessment tools for calculating PO – Course attainments



Direct Attainment:

The direct attainment of Program Outcomes (PO) is determined by aggregating the attainment levels of all courses using the following assessment process:

1. **Course-PO Mapping:** Course-PO mapping tables, as shown in Table 3.1.3, are collected from the respective course coordinators for all courses.
2. **Course Attainment Values:** Course attainment values, as detailed in Table 3.2.1, are gathered from the respective course coordinators.
3. **Calculation of Course-PO Attainment:** The Course-PO attainment is calculated using the formula:

4. **Direct PO Attainment:** The average of these course-specific attainment values is then computed for each individual PO, resulting in the overall direct PO attainment.

COURSE	CO1	CO2	CO3	CO4	CO5
CODE	AL	AL	AL	AL	AL
C111	2.82	2.74	2.92	2.87	2.84
C112	2.93	2.93	2.79	2.76	2.76
C113	2.30	2.21	2.27	2.21	2.21
C114	2.79	2.78	2.75	2.73	2.72
C115	2.29	2.14	2.33	2.32	2.32
C116	2.91	2.92	2.89	2.90	2.90
C117	2.89	2.91	2.92	2.90	2.92
C118	2.95	2.96	2.98	2.96	1.81
C119	2.96	2.95	2.94	2.96	2.11
C121	2.30.	2.26	2.17	2.19	2.12
C122	2.31	2.25	2.30	2.30	2.24
C123	2.29	2.28	2.24	2.19	2.14
C124	2.70	2.64	2.88	2.88	2.81
C125	2.88	2.91	2.90	2.89	2.89
C126	2.87	2.73	2.89	2.90	2.89
C127	2.84	2.86	2.86	2.86	2.85
C128	2.89	2.90	2.90	2.90	2.89
C129	2.92	2.92	2.92	2.92	2.91
C211	2	2	1.19	2.2	2.19
C212	2.30	2.31	2.32	2.30	2.29
C213	2.24	2.23	2.21	2.25	2.27
C214	2.21	2.03	2.02	2.27	2.19
C215	2.18	2.16	2.21	2.20	2.22
C216	2.96	2.952	2.942	2.964	2.96
C217	2.96	2.95	2.95	2.942	2.96
C218	2.96	2.95	2.95	2.94	2.97
C219	2.63	2.7	2.96	2.86	2.62
C221	2.21	2.23	2.26	2.20	2.25
C222	2.14	2.12	2.69	2.32	2.27
C223	2.14	2.19	2.22	2.32	2.31
C224	2.24	2.26	2.19	2.18	2.17
C225	2.03	2.01	2.07	1.97	1.97
C226	2.83	2.81	2.80	2.82	1.85
C227	2.95	2.96	2.96	2.97	2.96
C228	2.84	2.76	2.87	2.7	2.67
C229	2.79	2.61	2.78	2.94	2.74
C311	2.86	2.84	4.07	2.82	2.80
C312	2.20	1.89	1.75	2.18	1.90
C313	2.70	2.78	2.73	2.86	2.84
C314	2.08	2.10	2.18	2.20	0.42
C315	2.57	2.55	2.47	2.41	2.41
C316	2.96	2.96	2.97	2.95	0.52
C317	2.95	2.96	2.97	2.96	2.97
C318	2.83	2.73	2.74	2.68	2
C319	2.8	2.8	2.78	2.8	2.71
C321	2.68	2.29	2.68	2.59	2.68
C322	2.16	2.20	2.21	2.30	2.26
C323	2.96	2.96	2.96	2.68	2
C324	2.18	2.20	2.14	2.14	2.16
C325	2.20	2.26	2.20	2.22	2.20
C326	2.74	2.80	2.72	2.73	2.69

C327	2.79	2.76	2.81	2.82	2.61
C328	2.79	2.71	2.67	1.53	1.32
C329	2.42	2.48	2.84	2.86	2.63
C411	2.20	2.19	2.17	2.19	2.14
C412	2.58	2.62	2.64	2.62	2.52
C413	2.70	2.68	2.69	2.70	2.68
C414	2.18	2.16	2.19	2.18	2.17
C415	2.70	2.70	2.71	2.73	2.69
C416	2.80	2.80	2.80	2.80	2.81
C417	2.80	2.78	2.76	2.80	2.76
C418	2.75	2.8	2.77	1.81	2.10
C422	3	3	3	3	3

Indirect Attainment:

Various surveys are conducted to evaluate the Program Outcomes (PO), with feedback gathered from key stakeholders such as students, alumni, Employer Stakeholder opinions are collected using a grading scale where 3 indicates strong agreement, 2 indicates moderate agreement, and 1 indicates weak agreement.

Alumni feedback

Academic year : _____ Date : _____

Name & Designation :

Organization

Assess your performance on the following attributes as per the given criteria

S.NO	Questioners	Rating		
1	Application of basic knowledge in solving complex engineering problems.	3	2	1
2	Implementation of problem analysis for validated conclusions using mathematics natural sciences and engineering sciences.	3	2	1
3	Design & development of solutions for engineering systems with health & safety, cultural , societal and environmental considerations.	3	2	1
4	Applying their research exposure for design , analysis, interpretation and synthesis to get valid conclusions.	3	2	1
5	Utilization of modern engineering and IT tools for complex engineering activities.	3	2	1
6	Application of the contextual knowledge in assessing social issues and professional engineering practices.	3	2	1
7	Understanding & demonstrating the impact of knowledge on the societal & environmental sustainability.	3	2	1
8	Applying ethical principles and professional commitment in engineering practices.	3	2	1
9	Effective functioning as an individual /member/leader in diverse teams.	3	2	1
10	Effective communication skills to comprehend write & give presentations.	3	2	1
11	Applying engineering & management principles for project development in multidisciplinary environments.	3	2	1
12	Recognizing the context of technological changes in engaging &preparations for the continual learning.	3	2	1
13	Applying principles and practices of computer science and Engineering to design computational solutions.	3	2	1
14	Developing solutions in the area of database management , software design and computing systems using machine intelligence.	3	2	1
15	Teamwork and interpersonal skills as applicable for future job oriented	3	2	1

Additional comments if any.....

Signature

EMPLOYEE FEEDBACK

Academic year:

Name & Designation:

Organization:

Assess your performance on the following attribute as per the given criteria

S.NO	Questionaries	Rating	
1	Application of basic knowledge in solving complex engineering problems.	1 2 3	
2	Implementation of problem analysis for validated conclusions using mathematics natural sciences and engineering sciences.	1 2 3	
3	Design & development of solutions for engineering systems with health & safety, cultural , societal and environmental considerations.	1 2 3	
4	Applying their research exposure for design , analysis, interpretation and synthesis to get valid conclusions.	1 2 3	
5	Utilization of modern engineering and IT tools for complex engineering activities.	1 2 3	
6	Application of the contextual knowledge in assessing social issues and professional engineering practices.	1 2 3	
7	Understanding & demonstrating the impact of knowledge on the societal & environmental sustainability.	1 2 3	
8	Applying ethical principles and professional commitment in engineering practices.	1 2 3	
9	Effective functioning as an individual /member/leader in diverse teams.	1 2 3	
10	Effective communication skills to comprehend write & give presentations.	1 2 3	
11	Applying engineering & management principles for project development in multidisciplinary environments.	1 2 3	
12	Recognizing the context of technological changes in engaging &preparations for the continual learning.	1 2 3	
13	Applying principles and practices of computer science and Engineering to design computational solutions.	1 2 3	
14	Developing solutions in the area of database management , software design and computing systems using machine intelligence.	1 2 3	
15	Teamwork and interpersonal skills as applicable for future job oriented Application of basic knowledge in solving complex engineering problems.	1 2 3	
15	Developing solutions in the area of curriculum	1 2 3	

Additional Comments if any: _____

Signature

STUDENT EXIT SURVEY

Academic year:

Name & Designation:

Organization:

Assess your performance on the following attribute as per the given criteria

SNO	PO/PSO	Questions	Rating
-----	--------	-----------	--------

1	PO1	Are you confident in the fundamental concepts of engineering?	1	2	3
2	PO2	Are you able to identify and analyze the problems in engineering sciences?	1	2	3
3	PO3	Is the program helpful towards design and development of a System for public needs societal and environmental considerations.	1	2	3
4	PO4	Are the design of experiments analysis and interpretation of data helpful towards research?	1	2	3
5	PO5	How was the usage of modern tools for various engineering activities?	1	2	3
6	PO6	Are you able to apply the contextual knowledge to access societal, health, safety responsibilities relevant to the professional engineering practice?	1	2	3
7	PO7	Are you aware of the impact of the professional engineering solutions in societal and environment contexts?	1	2	3
8	PO8	Are the ethical principles professional ethics and responsibilities and norms of the engineering properly guided?	1	2	3
9	PO9	Does your learning help you to take up tasks project as learn leader of member?	1	2	3
10	PO10	Has the communication skill improved during your program?	1	2	3
11	PO11	Are you able to apply the knowledge of engineering and management principles to your own work so as to manage projects and in multidisciplinary environments?	1	2	3
12	PO12	How far you are engaged in independent and lifelong learning in the broadest context of technological change?	1	2	3
13	PSO1	How far you are strong in applying principles and practices of computer science and engineering to design computational solutions?	1	2	3
14	PSO2	Have you gained sufficient knowledge develop solutions in the area of database management, software design and computing systems using machine intelligence.?	1	2	3
15	PSO3	Have you gained practical knowledge for the applications in projects ?	1	2	3

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INDIRECT SURVEY	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
STUDENT EXIT SURVEY	2.51	2.44	2.43	2.55	2.61	2.64	2.54	2.51	2.55	2.53	2.58	2.54	2.45	2.39	2.51
ALUMINI SURVEY	2.51	2.44	2.43	2.54	2.57	2.64	2.54	2.47	2.55	2.5	2.58	2.5	2.54	2.43	2.51
EMPLOYER SURVEY	2.6	2.8	2.9	2.9	2.4	2.8	2.9	2.5	2.8	2.8	2.9	2.9	2.8	2.8	2.8
INDIRECT ATTAINMENT	2.54	2.56	2.59	2.66	2.53	2.69	2.66	2.49	2.63	2.61	2.69	2.65	2.60	2.54	2.61

3.3.2 Provide results of evaluation of PO&PSO (40)

Institute Marks : 40.00

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	1.89	2.84	PO11	1.89
C112	2.64	1.12	2.20	2.20	2.36	PO6	0.94	PO8	PO9	PO10	PO11	0.94
C113	2.24	1.49	1.49	1.49	1.49	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C114	2.50	1.55	1.77	2.65	2.21	2.06	1.77	PO8	PO9	0.88	0.88	1.03
C115	1.22	1.98	1.52	2.28	1.82	0.76	0.76	0.91	0.91	0.76	2.28	0.76
C116	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	1.55	2.90	PO11	1.93
C117	2.91	1.94	0.97	1.94	PO5	1.94	PO7	PO8	1.36	PO10	0.97	PO12
C118	2.96	1.97	0.99	0.99	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.97
C119	1.72	2.70	1.97	2.95	2.21	0.98	0.98	1.23	0.98	0.98	2.95	0.98
C121	2.21	0.74	1.47	1.47	PO5	0.74	PO7	PO8	PO9	PO10	PO11	PO12
C122	2.28	1.82	1.52	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.76
C123	2.21	2.03	1.77	1.47	2.21	1.84	1.47	1.47	1.47	1.84	1.47	2.21
C124	2.78	2.04	1.67	1.30	1.67	0.93	0.93	1.85	1.85	1.11	0.93	2.04
C125	2.31	2.41	1.93	1.93	2.41	1.69	PO7	1.93	2.41	1.45	1.93	PO12
C126	2.86	2.67	2.10	2.10	1.72	0.95	0.95	0.95	0.95	0.95	0.95	1.91
C127	1.90	0.95	1.90	2.85	PO5	PO6	PO7	PO8	0.95	PO10	PO11	0.95
C128	2.71	2.42	2.26	1.93	2.51	2.42	1.93	PO8	1.93	2.18	1.93	2.90
C129	2.73	2.92	2.24	2.14	2.14	0.97	0.97	0.97	0.97	2.92	2.92	1.75
C211	2.03	2.03	2.03	1.35	1.35	PO6	PO7	PO8	PO9	PO10	PO11	0.68
C212	2.15	2.15	2.15	1.38	1.53	PO6	PO7	PO8	1.07	1.38	PO11	1.38
C213	2.24	1.94	1.49	1.31	1.12	PO6	PO7	PO8	0.75	0.75	PO11	1.49
C214	1.00	1.14	1.00	0.86	1.43	1.43	PO7	0.14	1.00	0.86	0.29	0.71
C215	2.19	1.83	PO3	PO4	PO5	PO6	PO7	PO8	0.73	0.73	PO11	PO12
C216	2.77	2.22	2.59	1.48	2.22	PO6	PO7	PO8	0.92	1.66	PO11	1.85
C217	2.02	2.30	2.21	1.84	2.53	1.84	0.92	PO8	1.84	1.83	2.76	PO12
C218	2.01	2.28	2.19	1.83	2.51	1.83	0.91	PO8	1.83	1.37	2.74	PO12
C219	2.75	2.38	2.02	1.83	2.57	PO6	PO7	PO8	1.82	1.10	0.92	1.83
C221	2.08	1.78	PO3	PO4	PO5	PO6	PO7	PO8	0.74	0.74	PO11	PO12
C222	2.05	2.05	1.93	1.54	2.31	2.31	1.54	2.31	PO9	PO10	1.54	PO12
C223	2.09	1.79	1.64	1.34	1.64	0.30	0.15	0.90	0.30	1.05	1.05	1.79
C224	2.21	2.21	2.21	1.47	2.21	PO6	PO7	PO8	0.74	1.47	PO11	2.211
C225	1.01	1.34	1.34	0.67	PO5	PO6	PO7	1.34	2.01	1.68	1.79	PO12
C226	2.75	1.83	1.83	2.75	1.83	1.83	2.75	1.83	1.83	2.75	1.83	1.83
C227	1.86	2.60	1.67	1.67	2.79	PO6	PO7	PO8	PO9	1.67	1.67	1.86
C228	2.77	2.59	2.59	2.22	1.85	PO6	PO7	PO8	PO9	1.85	PO11	1.29
C229	1.48	2.03	1.66	1.29	0.18	1.11	PO7	1.29	PO9	PO10	PO11	PO12
C311	2.80	2.80	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	2.33
C312	PO1	1.95	1.95	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.43
C313	2.78	2.59	1.67	1.85	2.59	1.11	1.11	1.11	0.93	0.93	PO11	1.85
C314	1.79	1.79	1.67	1.55	1.43	PO6	PO7	PO8	0.84	0.84	PO11	0.60
C315	1.46	1.61	1.61	1.31	1.75	0.29	PO7	PO8	PO9	PO10	PO11	PO12
C316	2.07	2.30	1.84	1.38	2.07	1.61	0.92	0.92	1.38	1.15	0.92	1.15
C317	2.30	2.07	2.15	PO4	2.45	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C318	2.52	1.83	2.06	1.38	2.06	0.92	0.92	1.83	2.29	2.06	1.60	2.75
C319	2.96	2.76	2.17	2.76	1.58	1.97	1.58	1.18	0.59	0.59	0.39	1.97

C321	2.58	2.41	1.89	1.89	2.41	PO6	PO7	0.86	0.69	0.86	PO11	1.72
C322	2.23	1.93	1.86	1.12	1.12	PO6	PO7	PO8	PO9	1.49	PO11	0.74
C323	2.71	2.53	1.99	1.99	2.53	0.18	PO7	0.90	PO9	0.90	0.90	1.99
C324	2.16	1.58	2.02	1.87	0.02	0.14	0.14	PO8	0.58	1.15	0.86	1.58
C325	1.48	1.48	2.22	1.48	2.25	PO6	PO7	PO8	PO9	0.74	0.74	1.48
C326	2.74	2.51	2.28	2.06	2.74	0.23	0.23	0.69	1.14	0.91	0.46	2.06
C327	2.76	2.58	2.76	1.84	2.76	0.98	PO7	0.92	0.92	1.84	PO11	1.84
C328	2.72	2.12	2.72	2.12	2.72	PO6	PO7	PO8	0.91	0.91	PO11	1.81
C329	2.65	2.65	1.77	1.77	1.77	PO6	PO7	PO8	0.88	1.77	PO11	2.65
C411	1.74	2.03	0.87	1.31	1.89	0.58	PO7	1.60	PO9	1.45	PO11	1.45
C412	2.25	2.08	PO3	2.17	2.25	PO6	PO7	PO8	PO9	PO10	PO11	0.87
C413	1.97	2.33	1.61	2.15	2.51	1.26	PO7	2.33	1.08	1.08	1.97	2.51
C414	2.03	1.74	1.31	1.60	1.06	1.02	1.02	0.87	1.16	1.16	1.02	1.74
C415	2.71	2.52	2.16	2.34	1.63	1.63	1.63	1.08	1.08	1.81	1.26	1.81
C416	2.80	2.61	2.61	2.61	2.61	2.80	2.80	2.80	2.80	PO10	PO11	PO12
C417	2.78	2.04	1.85	2.41	PO5	PO6	PO7	0.93	0.93	1.30	0.93	1.48
C418	2.46	2.15	2.15	1.54	2.15	2.15	2.46	1.85	2.15	2.46	2.15	1.85
C421	2.6	2.4	2.6	2	2.4	2.2	2.2	2.4	2.4	2.4	2.4	2.2

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.29	2.08	1.90	1.80	1.99	1.32	1.28	1.36	1.29	1.44	1.48	1.65
InDirect Attainment	2.54	2.56	2.59	2.66	2.53	2.69	2.66	2.49	2.63	2.61	2.69	2.65

PSO Attainment

Course	PSO1	PSO2	PSO3
C111	PSO1	PSO2	PSO3
C112	PSO1	PSO2	PSO3
C113	PSO1	PSO2	PSO3
C114	PSO1	PSO2	PSO3
C115	1.82	1.98	1.52
C116	PSO1	PSO2	PSO3
C117	PSO1	PSO2	PSO3
C118	PSO1	PSO2	PSO3
C119	2.46	2.70	1.97
C121	PSO1	PSO2	PSO3
C122	PSO1	PSO2	PSO3
C123	PSO1	PSO2	PSO3
C124	2.22	2.59	1.48
C125	2.12	2.12	1.35
C126	2.86	2.48	1.33
C127	PSO1	PSO2	PSO3
C128	PSO1	PSO2	PSO3
C129	2.92	2.53	1.36
C211	2.03	2.03	1.35
C212	2.15	1.69	1.53

C213	1.94	2.09	1.49
C214	1.85	1.85	1.00
C215	1.75	2.19	1.61
C216	2.77	2.40	0.92
C217	1.66	2.58	2.15
C218	1.64	2.56	2.13
C219	2.44	2.75	1.83
C221	PSO1	PSO2	PSO3
C222	1.80	1.73	1.54
C223	1.49	1.94	1.19
C224	1.47	2.21	2.21
C225	0.34	0.67	1.34
C226	PSO1	2.75	PSO3
C227	2.42	2.79	1.86
C228	2.77	2.59	1.85
C229	1.85	2.40	1.11
C311	2.80	1.87	1.87
C312	1.43	1.56	1.30
C313	2.78	2.59	2.04
C314	1.67	1.43	1.07
C315	2.04	1.61	1.46
C316	2.07	2.76	2.07
C317	2.53	2.07	2.30
C318	2.44	2.14	2.29
C319	2.96	2.76	2.57
C321	2.55	2.38	2.21
C322	2.23	1.49	1.86
C323	2.71	2.53	1.26
C324	1.73	1.87	1.73
C325	2.22	2.22	0.74
C326	2.74	2.28	1.60
C327	2.76	2.39	2.02
C328	2.72	2.42	1.81
C329	1.77	1.77	1.77
C411	1.60	1.74	1.16
C412	2.60	2.25	1.52
C413	2.33	1.97	2.33
C414	1.89	2.03	1.45
C415	2.71	1.81	0.90
C416	2.43	2.57	2.33
C417	2.78	2.59	1.85
C418	2.46	2.15	2.15
C421	2.6	2.4	2.4
PSO Attainment	2.29	2.26	1.87

PSO Attainment Level

Course	PSO1	PSO2	PSO3
Direct Attainment	2.21	2.19	1.68
InDirect Attainment	2.60	2.54	2.61

4 STUDENTS' PERFORMANCE (150)

Total Marks 132.09

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2024-25 (CAY)	2023-24 (CAYm1)	2022-23(CAYm2)	2021-22(CAYm3)	2020-21(CAYm4)	2019-20 (CAYm5)	2018-19 (CAYm6)
Sanctioned intake of the program(N)	360	150	150	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 migrated to this program (N1)	310	150	144	120	111	120	102
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	12	5	12	11	3	2	1
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	322	155	156	131	114	122	103

Table 4.2

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	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)			
		I year	II year	III year	IV year
2024-25 (CAY)	322	0	0	0	0
2023-24 (CAYm1)	155	130	0	0	0
2022-23 (CAYm2)	156	122	120	0	0
2021-22 (CAYm3)	131	120	117	106	0
2020-21 (LYG)	114	111	109	108	102
2019-20 (LYGm1)	122	119	115	110	105
2018-19 (LYGm2)	103	101	100	97	90

Table 4.3

Year of entry	Total No of students admitted in the program (N1 + N2 + N3)	Number of students who have successfully graduated in stipulated period of study) [Total of with Backlog + without Backlog]			
		I year	II year	III year	IV year
2024-25 (CAY)	322	0	0	0	0
2023-24 (CAYm1)	155	150	0	0	0
2022-23 (CAYm2)	156	136	147	0	0
2021-22 (CAYm3)	131	120	122	119	0
2020-21 (LYG)	114	110	113	112	108
2019-20 (LYGm1)	122	119	117	108	102
2018-19 (LYGm2)	103	100	99	97	97

4.1 Enrolment Ratio (20)

Total Marks 20.00

Institute Marks : 20.00

	N (From Table 4.1)	N1 (From Table 4.1)	Enrollment Ratio [(N1/N)*100]
2024-25 (CAY)	360	310	86.11
2023-24 (CAYm1)	150	150	100.00
2022-23 (CAYm2)	150	144	96.00

Average [(ER1 + ER2 + ER3) / 3] : 94.04

Assessment : 20.00

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

Total Marks 35.40

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

Institute Marks : 21.75

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYGm1 (2019-20)	Latest Year of Graduation minus 2 LYGm2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separated division, if applicable	114.00	122.00	103.00
Y Number of students who have graduated without backlogs in the stipulated period	102.00	105.00	90.00
Success Index [SI = Y / X]	0.89	0.86	0.87

Average SI [(SI1 + SI2 + SI3) / 3] : 0.87

Assessment [25 * Average SI] : 21.75

4.2.2 Success rate in stipulated period (15)

Institute Marks : 13.65

Item	Latest Year of Graduation, LYG (2020-21)	Latest Year of Graduation minus 1, LYGm1 (2019-20)	Latest Year of Graduation minus 2 LYGm2 (2018-19)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and separated division, if applicable	114.00	122.00	103.00
Y Number of students who have graduated in the stipulated period	108.00	102.00	97.00
Success Index [SI = Y / X]	0.95	0.84	0.94

Average SI[(SI1 + SI2 + SI3) / 3]: 0.91

Assessment [15 * Average SI] : 13.65

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 (15)

Total Marks 12.62

Institute Marks : 12.62

Academic Performance	CAYm3 (2021-22)	LYG (2020-21)	LYGm1 (2019-20)
Mean of CGPA or mean percentage of all successful students(X)	8.90	8.70	8.60
Total number of successful students(Y)	119.00	112.00	108.00
Total number of students appeared in the examination(Z)	122.00	113.00	117.00
API [X*(Y/Z)]:	8.68	8.62	7.94

Average API [(AP1 + AP2 + AP3)/3] : 8.41

Assessment [1.5 * Average API] : 12.62

4.4 Academic Performance in Second Year (15)

Total Marks 12.20

Institute Marks : 12.20

Academic Performance	CAYm2 (2022-23)	CAYm3 (2021-22)	LYG (2020-21)
Mean of CGPA or mean percentage of all successful students(X)	8.53	8.42	8.10
Total number of successful students (Y)	147.00	122.00	113.00
Total number of students appeared in the examination (Z)	148.00	131.00	113.00
API [X * (Y/Z)]	8.47	7.84	8.10

Average API [(AP1 + AP2 + AP3)/3] : 8.14

Assessment [1.5 * AverageAPI] : 12.20

4.5 Placement, Higher Studies and Entrepreneurship (40)

Total Marks 31.87

Institute Marks : 31.87

Item	LYG (2020-21)	LYGm1 (2019-20)	LYGm2 (2018-19)
Total No of Final Year Students(N)	112.00	108.00	97.00
No of students placed in the companies or government sector(X)	80.00	77.00	70.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	12.00	8.00	6.00
No of students turned entrepreneur in engineering/technology (Z)	0.00	0.00	0.00
x + y + z =	92.00	85.00	76.00
Placement Index [(X+Y+Z)/N] :	0.82	0.79	0.78

Average Placement [(P1 + P2 + P3)/3] : 0.80

Assessment [40 * Average Placement] : 31.87

Program Name :
Assessment Year Name : CAYm1

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	GUDIPUDI NAGA SAMPOORNA	20KP1A0534	QSPIDERS	2023
2	GRANDHI PRASANNA VIJAY KUMAR	20KP1A0532	QSPIDERSY	2023
3	MADDOJU SAIMAHENDRA	20KP1A0556	QSPIDERS	2023
4	PAPPULA SIVANI	20KP1A0575	QSPIDERS	2023
5	PAVAN KUMAR BATTULA	20KP1A0507	QSPIDERS	2023
6	KARRIAVULA UMA LALITHA BANGARAM	20KP1A0544	QSPIDERS	2023
7	KALARI HARINI	20KP1A0549	QSPIDERS	2023
8	CHILKA ROJI	20KP1A0520	QSPIDERS	2023
9	DAMA PAVANI	20KP1A0522	SNOVYASIS	2023
10	NOORBASHA YASMIDHA SHEEHAAN	20KP1A0572	SNOVYASIS	2023
11	JAMALLAMUDI NAVYA	20KP1A0538	SNOVYASIS	2023
12	PATHURI RAMADEVI	20KP1A0578	SNOVYASIS	2023
13	EVURI VAISHNAVI	20KP1A0525	SMARTBRAINS	2023
14	GADDAM BALANKI REDDY	20KP1A0526	SMARTBRAINS	2023
15	SUREPALLI DINESH NAGA TEJA	20KP1A0598	SMARTBRAINS	2023
16	JUJJURU RAJARAJESWARI	20KP1A0542	SMARTBRAINS	2023
17	INTURI MUKESH	20KP1A0535	SMARTBRAINS	2023
18	JANGA LENIN BABU	20KP1A0541	SMARTBRAINS	2023
19	SURINENI NAVEEN	20KP1A0599	SMARTBRAINS	2023
20	VEERAPUNENI RADHA	20KP1A05A6	SMARTBRAINS	2023
21	KALARI HARINI	20KP1A0543	SMARTBRAINS	2023
22	TALAKAYALA TONNY CHRISTAPHAR	20KP1A05A0	SMARTBRAINS	2023
23	JANDRAJUPALLI SURENDRA	20KP1A0540	SMARTBRAINS	2023
24	SUREPALLI DINESH NAGA TEJA	20KP1A0597	SMARTBRAINS	2023
25	SHAIK MOHAMMAD ASIM	20KP1A0595	SMARTBRAINS	2023
26	BOMMU MOUNIKA	20KP1A0512	Codegnan	2023
27	CHALLA SHASHI PRIYA	20KP1A0515	Codegnan	2023
28	TAVVAGUNTA SHAIK MOULALI	20KP1A05A1	Codegnan	2023
29	UPPU PRANESHWARI	20KP1A05A4	Codegnan	2023
30	JANDHYALA SITHIKANTA MURTHY	20KP1A0539	Codegnan	2023
31	SHAIK NAJIRUNNISA	20KP1A0596	Codegnan	2023
32	KASANI SUMANTH	20KP1A0545	Codegnan	2023
33	MAHESWARAPU VENKATA LAKSHMI SATISH	20KP1A0557	SNOVYASIS	2023
34	CHAMARTHI NAGARAJU	20KP1A0517	SNOVYASIS	2023
35	BATTINI VENU KUMAR	20KP1A0506	SNOVYASIS	2023
36	CHINTA RAMANJI	20KP1A0521	SNOVYASIS	2023
37	SHAIK AHAMAD	20KP1A0591	SNOVYASIS	2023
38	KRISHNA VAMSI KARETI	21KP5A0504	SNOVYASIS	2023
39	VEMULA VIJAY BHASKAR	21KP5A0510	SNOVYASIS	2023
40	MORUBOINA BHARATH	21KP5A0507	SNOVYASIS	2023
41	MAMIDI GOWRI	20KP1A0558	SNOVYASIS	2023
42	KESAVARAPU BHARGAVI	20KP1A0547	SMARTBRAINS	2023
43	KORABANDI NILIMA	20KP1A0553	SMARTBRAINS	2023
44	GRANDHE MOUNIKA	20KP1A0531	SMARTBRAINS	2023
45	MANDUVA RADHE SYAM	20KP1A0559	SMARTBRAINS	2023

46	VISHNU VARDHAN YAKKAALURI	20KP1A05A7	SMARTBRAINS	2023
Assessment Year Name : CAYm2				
S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	CHIKKAM HEMA LATHA	19KP1A0516	SAVANTIS	2022
2	CHINNI ALEKHYA	19KP1A0517	SAVANTIS	2022
3	SAI CHANDRIKA.KARANKI	19KP1A0543	SAVANTIS	2022
4	NIMISHA REDDY KARKA	19KP1A0546	SAVANTIS	2022
5	K VISWASRI BANDHAVI	19KP1A0548	SAVANTIS	2022
6	LAKKARAJU SAI VIDITHA	19KP1A0556	SAVANTIS	2022
7	PAMULAPATI LEELA MADHAVI	19KP1A0558	SAVANTIS	2022
8	DEVALLA TIRUMALA BABU	20KP5AO503	SAVANTIS	2022
9	HARSHA PHANI VARDHAN	19KP1A05C0	SAVANTIS	2022
10	T. VEERA LAKSHMI	19KP1A05B2	SAVANTIS	2022
11	NARAYANAMMA. THANIKONDA	19KP1A05B1	SAVANTIS	2022
12	TADIKAMALA SIVA PARVATHI	19KP1A05A8	SAVANTIS	2022
13	SHAIK SUBANA	19KP1A05A2	SAVANTIS	2022
14	SHAIK.SATHAR	19KP1A05A1	SAVANTIS	2022
15	PASAM SAITEJA	19KP1A0578	SAVANTIS	2022
16	ARUN KUMAR MARUBOINA	19KP1A0559	CLICK IN SOFT	2022
17	RAJ SHARMA	19KP1A0589	CLICK IN SOFT	2022
18	GOUSE BASHA SHAIK	19KP1A0598	CLICK IN SOFT	2022
19	SAILIKITH SOMISETTY	19KP1A05A7	CLICK IN SOFT	2022
20	TEKI SASIPRIYA	19KP1A05B0	CLICK IN SOFT	2022
21	YARLAGADDA SAI MOUNIKA	19KP1A05C1	CLICK IN SOFT	2022
22	DEVALLA TIRUMALA BABU	20KP5AO503	Byjus	2022
23	ANKATA SANDEEP	19KP1A0504	Byjus	2022
24	BELLAMKONDA PRADEEP KUMAR	19KP1A0506	Byjus	2022
25	BITRA DILEEP KUMAR	19KP1A0508	Byjus	2022
26	CH. SAI MEGHANA	19KP1A0511	Byjus	2022
27	CHALLA RAGA SRAVYA	19KP1A0512	Byjus	2022
28	CHALUVADI JYOTHIRMAI	19KP1A0513	Byjus	2022
29	CHINTAKRINDI.SUPRIYA	19KP1A0518	Byjus	2022
30	GORIPARTHI NEHA	19KP1A0534	Byjus	2022
31	KAMBHAMPATI ARAVIND BABU	19KP1A0540	Byjus	2022
32	KARASALA JAYA DEEPTHI	19KP1A0544	Byjus	2022
33	KOTHAMASU SATYAVATHI	19KP1A0552	Q spiders	2022
34	P.VIJAYA LAKSHMI	19KP1A0576	Q spiders	2022
35	P.MAHESH BABU	19KP1A0577	Q spiders	2022
36	P.RAGHAVENDRA	19KP1A0587	Q spiders	2022
37	P. SAI TEJA BABU	19KP1A0594	TAP ACADEMY	2022

Assessment Year Name : CAYm3

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	VEMURI R N VENKATA SAI YASWANTH	18kp1a0597	Codegnan	2021
2	VELAGA BHARGAV	18kp1a0594	Codegnan	2021
3	SAKHAMURI SAI CHARAN	18kp1a0580	Codegnan	2021
4	PEDDINENI SRILAKSHMI	18kp1a0570	Codegnan	2021
5	RAVI VASAVI	18kp1a0576	Codegnan	2021
6	SHAIK ABDUL KAREEM	18kp1a0583	Codegnan	2021
7	VUNNAM RAVINDRA BABU	18kp1a0599	Codegnan	2021
8	PUNDE YOGESH	18kp1a0571	Wipro	2021
9	MEESALA ADI LAKSHMI	18kp1a0562	Wipro	2021
10	VELAVARTHIPATI BALA SAI KRISHNA	18kp1a0595	Wipro	2021
11	ARAVINDH KALLURI	18kp1a0506	Wipro	2021
12	BOLLISETTY SRAVAN KUMAR	18kp1a0515	Wipro	2021
13	DODDA NAGA VAISHNAVI	18kp1a0522	Wipro	2021
14	GUNDAPANENI UDAYA KEERTHI	18kp1a0529	Wipro	2021
15	KANNAMANGALAM SOUNDARYA	18kp1a0536	Efftronics	2021
16	LANKAPALLI VENU	18kp1a0547	Efftronics	2021
17	MADALA NAVYA SRI	18kp1a0551	Efftronics	2021
18	KAKARLA PRASANTH	18kp1a0534	Efftronics	2021
19	EPURI VINAY	18kp1a0523	Efftronics	2021
20	CHANDA JAYASURYA	18kp1a0518	Efftronics	2021
21	BANDLAMUDI SAI KEERTHI	18kp1a0512	Efftronics	2021
22	BUSI BHANU PRAKASH	18kp1a0517	Efftronics	2021
23	MARTHALA SRIKANTH	18kp1a0559	Efftronics	2021
24	MADDIRALA SWATHI	18kp1a0553	Efftronics	2021
25	KOTAPATI PRIYANKA	18kp1a0543	SAVANTIS	2021
26	MADALA SAI TEJA	18kp1a0552	SAVANTIS	2021
27	GUNDAPANENI UDAYA KEERTHI	18kp10529	SAVANTIS	2021
28	BACHU CHARISHMA	18KP1A0509	SAVANTIS	2021
29	GOGIREDDY BHARGAVI	18KP1A0525	SAVANTIS	2021
30	KOLLI PARA SIVAGANESH	18kp1a0541	SAVANTIS	2021
31	KANCHARLA SUDHAKAR	19KP5A0501	SAVANTIS	2021

4.6 Professional Activities (20)

Total Marks 20.00

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

Institute Marks : 5.00

Department of Computer Science and engineering is associated with various professional societies and student chapters to make the students aware of the needs of industry. The co-circular and extra circular events are organized in collaboration with professional bodies/ student chapters. They assist the students by providing internships on their platform which enhances the real time technical skills in the domains like Machine Learning, Web development, project management etc.

S. No.	Name of the Professional Society/ Chapter	Year of Establishment	Membership Strength	Faculty Coordinator(s)
1	IISTE Student Chapter	2024	50	Mr.P.Aravind
2	2CSI Studnt Branch	2025	20	Mr.Tony Rhodes
3	IAENG INTERNATIONAL ASSOCIATION OF ENGINEERS	2024	30	Mr.I. Nageswa Rao

2024-25

S No.	Name	Date- Month- Year	Resource Person with Designation	%of Students
1	Workshop on AI Integration in Hardware	30-12-2024 to 31-12-2024	Mr Sai Stish, CEO Indian Severs	94%
2	Guest lecture on "Identifying Key Influencers with centrality Metrics in Social Networks"	27-12-2024	Dr.Murali Krishna Enduri, HOD,CSE, SRM University-AP.	93%
3	4 days' workshop and 2 days Hackathon on AWS	24-01-2024	Braino vision solutions India,Pvt.,Ltd.	93%
4	Workshop on Artificial Intelligence & Cloud Computing	22-01-2024	E. Narendra Senior Tranier, Edunet Foundation	94%

2023-24

S No.	Action Taken	Date- Month- Year	Resource Person with Designation	%of Students
1	Workshop on Designing of Deep Learning Models using Tensor Flow & Keras API	30-09-2023	Braino vision solutions India,Pvt.,Ltd.	93%
2	workshop on Robotics called Robotrix for III years	05-09-2023 to 06-09-2023	SRM University	90%

3	Awareness program on "Career Guidance & Counselling"	28-07-2023	Er.Y.V.D.Chandra Sekar, Founder & CEO, CS CODENZ, Vijayawada.	95%
4	Awareness program on "Business Technology Incubators & entrepreneurship"	26-07-2023	Mr.Abdul Riyaz, Incubation Manager, VignanDeemed University, Guntur.	95%
5	Workshop on "Mastering data processing for Machine Learning success" IV years	22-05-2023 to 27-05-2023	Ms. Ruthumma, Technical Trainer, APSSDC.	93%

2022-23

S No.	Name	Date- Month- Year	Resource Person with Designation	%of Students
1	Workshop on "Sustainable Development" III years	01-03-2023	Burisetty Sri Lakshmi Ramya Krishna	93%
2	Seminar on "Digital Transformation of India"	15-02-2023	Sri Akhilesh Srivastava	97%
3	Awareness program on "Har Ghar Dhyani"	10-02-2023	Mrs.Mani Are, Faculty ,Art of Living. Mr.N.. Sudhakara Rao	91%
4	hands-on session on Android Application Development for II years	08-12-2022	Mr.T.Pavan Kumar Reddy, Trust & Safety Analyst, Accenture and Mr.P.S.V.Krishna, Software Trainer.	93%
5	APSSDC WORKSHOP II Years" Data Analytics using Python"	17-10-2022 to 22-10-2022	Ms. Ruthumma, Technical Trainer, APSSDC.	97%
6	Workshop III years "web development using Django"	01-08-2022 to 05-08-2022	Dr. A Swapna Priya Asst. Prof, VVIT, Vizag	96%
7	Work shop on National Level Largest Student Work Shop on Data Science using Python"	20-05-2022	Dr.Buddha Chandra Shekhar, Chief coordinator,AICTE.	97%
8	Hands-on Workshop on Ethical Hacking & Cyber Security	11-05-2022	Santosh Chaluvadi, Founder & CEO, Supraja Technologies.	95%

The main objective of newsletter and annual magazine is to provide important news and updates as current as possible to make the stakeholders aware of the department significant information. Publishing a newsletter with the right tools and effective scheduling, can be a simple way to boost the entire communication plan by a few notches.

S.No.	Name of the Student	USN	Title of the Article	Editor(s)	Magazine Name Year
1	PATCHAVA TEJA	1SJ15IS003	Emerging Technology	DR. K. NAGESWARA RAO	RIVISTA 2021
2	PATCHAVA VISHNU VARDHAN	1SJ16IS059	Painting	DR. D. SARADA MANI	RIVISTA 2021
3	PATHAKAMURI TIRUMALA	1SJ16IS045	Painting	DR. Y. V. RAGHAVA RAO	RIVISTA 2022
4	PEDDINENI SRILAKSHMI	1SJ16IS041	Sculpture – An Art by Itself	Dr. G. Kalyani	RIVISTA 2022
5	PUNDE YOGESH	1SJ15IS024	Something to Think About	Mr. D. HARI KRISHNA	RIVISTA 2023
6	PUTLURI HARSHAVARDANREDDY	1SJ14IS109	Old School Love	Dr. G. Kalyani	RIVISTA 2024
7	RACHAMALLA VENKAT BHARATH	1SJ14IS056	Photography	DR. K. NAGESWARA RAO	RIVISTA 2024

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

Institute Marks : 10.00

The students of computer science and engineering department bagged an opportunity to participate and enhance their learning skills in the area of latest trends in technology. They excelled in performance in various platforms like paper publications in Journals (UGC), Microsoft WISE,, completing internships in top MNCs.

The faculty motivates the students continuously to explore their skills in latest technologies by participating in various inter-institute events. The Management encourages all the faculty and students to organize and participate in inter-institute events by providing financial aid for registrations, travel, accommodation etc.

A: Events within the State

Events attended by Students within the State 2021-22						
Sl. No	Roll. No	Date	Student Name	Event	Prize Awarded	Venue/ Organised
1	20KP1A0109	25-08-2021	PEEKU ANJAIAH	6 th Senior Inter District (Men & Women) Netball Championship 2021-22	Merit	Vijayawada, Krishna District,

Table : Events attended by Students within the State 2021-22

Events attended by Students within the State 2022-23						
Sl. No	Roll. No	Date	Student Name	Event	Prize Awarded	Venue
1	21KP1A0511	25-08-2022	BUSANI SANDHYA	Raspberry Pi3 LEVEL -1	Participation	HMI Engineering Services
	21KP1A0545		KODURI GNANA HARI KRISHNA			
2	22KP1A0522	29-08-2022	CHATHARAJUPALLI NANDINI	200 mts Track	Runner	Vizag
3	22KP1A0556	16-11-2022 to 18-11-2022	KASIMKOTA PRANATHI	A.P CM CUP State Level Net ball Tournament	Participated In Women Category	District Sports Authority, East Godavari

B: Events outside the State

Events attended by Students Outside the State 2022-23						
Sl. No	Roll. No	Date	Student Name	Event	Prize Awarded	Venue
1	21KP1A0521	25-08-2022	DUDEKULA SIDDAIAH	Raspberry Pi3 LEVEL -1	Participation	HMI Engineering Services
2	21KP1A0547		KONDRU LAKSHMI PRASANNA			
3	20KP1A0512	24-10-2022	BOMMU MOUNIKA	Wheebox National Employability Test Certificate	Rank 42	Wheebox
4	20KP1A0574	22-01-2023	PAMIDIMALLA SHANMUKHA SAI	RPA Hackathon Contest	Rank 92	Techgig
5	21KP1A0521	30-01-2023 to 01-02-2023	DUDEKULA SIDDAIAH	Throw ball Vignan Mahotsav 2020	Participation	Vignan's University
6	19KP1A0586	22-04-2023	POTLA RAJA RAJESWARI	Digital Skills: Artificial Intelligence	Achievement	Accenture

7	19KP1A0527	25-04-2023	GADIKOYYA LOKESH REDDY	Microsoft WISE, Hyderabad	Mentorship Program	Microsoft, Hyderabad
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Academic Year	Name of the Student	Name of the Event	Name of the Host Institute	Prize Won
2024-25	KODURI SYAM KUMAR	Cricket	Seven Squares,JKC	Medal+Trophy
2024-25	GUDDETI RAMCHARAN TEJA	INVINCIBLE OF SOIREE	RVR & JC College of Engineering	Third
2024-25	KOPPULA DINESH GOLLA GOPI CHAND CHILKA SRAVANI KUTALA NAGA AJAY	AI Hackthon	V R Siddaratha Engineering College	Participants
2024-25	MAKKENA VYSHNAVI KOKKILIGADDA RAJEEV SUDIREDDY SAI LAKSHMI SWARNA TARUN SAI	AI Hackthon	V R Siddaratha Engineering College	Participants
2024-25	SHAIK RESHMA	COLORIDO	RVR & JC College of Engineering	Participants
2024-25	THOTA VENKATALAKSHMI	COLORIDO	RVR & JC College of Engineering	Participants
2024-25	MUKKU PRATHYUSHA	COLORIDO	RVR & JC College of Engineering	Participants
2024-25	GUMMADI SOWJANYA	COLORIDO	RVR & JC College of Engineering	Participants

Academic Year	Name of the Student	Name of the Event	Name of the Host Institute	Prize Won
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2023-24	ALLU VARA LAKSHMI	Paper Presentation on Sustainable Development	SRM University	First (Gold Medal)
2023-24	INTURI TRIVENI	Paper Presentation	SRM University	Participants
2023-24	KASIREDDY SAI SANDEEP REDDY	Paper Presentation	SRM University	Participants

5 FACULTY INFORMATION AND CONTRIBUTIONS (200)

Total Marks 195.82

Institute Marks :

Name	PAN No.	University Degree	Date of Receiving Degree	Area of Specialization	Research Paper Publications	Ph.D Guidance	Faculty receiving Ph.D during the assessment year	Current Designation	Date (Designated as Prof/Assoc. Prof.).	Initial Date of Joining	Association Type	At present working with the Institution(Yes/No)	In case of NO, Date of Leaving	IS HOD?
DR.K.NAGESWARA RAO	AGZPK9875A	Ph.D	20/10/2014	CSE	2	1	0	Professor	28/05/2019	28/05/2019	Regular	Yes		Yes
DR. J.CHANDRASEKHAR	AJBPJ5874D	Ph.D	19/05/2015	CSE	9	0	0	Associate Professor	11/12/2018	11/12/2018	Regular	Yes		No
MR. V.K.PRATAP	AHJPV7914J	M.Tech	12/03/2012	CSE	6	0	0	Assistant Professor		17/12/2018	Regular	Yes		No
Mr.D.HARI KRISHNA	BCJPD3175R	M.Tech	11/02/2016	CSE	0	0	0	Assistant Professor		06/09/2021	Regular	No	03/06/2025	No
Ms.CH.BINDU MADHAVI	BISPC5648H	M.Tech	09/09/2021	CSE	2	0	0	Assistant Professor		04/10/2021	Regular	Yes		No
Mrs. Y.JESSY KUMARI	AQXPY6818K	M.Tech	03/12/2018	CSE	1	0	0	Assistant Professor		10/01/2019	Regular	Yes		No
MS. N.KANTHI PRIYADARSINI	ASUPN0182C	M.Tech	02/07/2018	CSE	0	0	0	Assistant Professor		13/12/2019	Regular	No	01/05/2025	No
MRS. K.MANVITHA	FRNPK0670R	M.Tech	02/08/2018	CSE	0	0	0	Assistant Professor		01/07/2019	Regular	Yes		No
MR. B.RAJASHEKHAR	CRVPB4846F	M.Tech	01/07/2020	CSE	0	0	0	Assistant Professor		09/03/2021	Regular	Yes		No
MS. G.SOWMYA	CDZPG3632C	M.Tech	01/09/2021	CSE	0	0	0	Assistant Professor		29/01/2022	Regular	No	11/06/2025	No
MRS. RAZIYA SULTHANA	FMBPP4788J	M.Tech	01/11/2012	CSE	1	0	0	Assistant Professor		03/02/2021	Regular	No	03/05/2025	No
MRS. D.THIRUPATHAMMA	COTPD0280A	M.Tech	15/04/2019		2	0	0	Assistant Professor		03/02/2021	Regular	Yes		No
MRS. P. SWATHI	BBEPP2042K	M.Tech	20/11/2013	CSE	0	0	0	Assistant Professor		03/02/2021	Regular	No	03/05/2025	No
MS.S.SOWJANYA	EEZPS2467P	M.Tech	06/01/2016	CSE	0	0	0	Assistant Professor		03/02/2021	Regular	No	03/05/2025	No
MR N.VAMSI KRISHNA	APSPN0854N	M.Tech	15/05/2012	CSE	0	0	0	Assistant Professor		21/02/2022	Regular	No	05/03/2025	No
MRS P.RATNA KUMARI	NPYPY5159E	M.Tech	09/12/2014	CSE	0	0	0	Assistant Professor		01/09/2021	Regular	Yes		No
MRS K. KAVYA SRI	FLIPS5042C	M.Tech	09/06/2016	CSE	0	0	0	Assistant Professor		09/02/2022	Regular	Yes		No
MRS. G.SINDHUJA	BRJPG4572Q	M.Tech	01/09/2022	CSE	0	0	0	Assistant Professor		03/10/2022	Regular	No	10/05/2025	No
MRS SHAIK ROSHNA	KTBPS1307E	M.Tech	01/09/2021	CSE	0	0	0	Assistant Professor		01/07/2022	Regular	No	10/05/2024	No
MR N PRADEEP KUMAR	ASHPN9227F	M.Tech	05/05/2022	CSE	0	0	0	Assistant Professor		01/06/2022	Regular	No	05/10/2024	No
MR U U VEERENDRA	ALEPV8806A	M.Tech	02/12/2013	CSE	0	0	0	Assistant Professor		01/07/2021	Regular	No	10/05/2025	No
MRS V.ASHA LATHA	ANEPL3244L	M.Tech	08/06/2015	CSE	0	0	0	Assistant Professor		22/01/2022	Regular	No	12/05/2023	No
MR V.SURESH BABU	AOTPV8598R	M.Tech	08/06/2015	CSE	0	0	0	Assistant Professor		03/06/2021	Regular	No	11/05/2024	No
MR KOMMURI BALAJI	BZSPB9501P	MS	18/11/2011	CSE	0	0	0	Assistant Professor		18/05/2020	Regular	Yes		No
MRS S ANUSHA	DCOPP4624Q	M.Tech	01/09/2023	CSE	0	0	0	Assistant Professor		20/02/2024	Regular	Yes		No
MR J RAMU	AISPJ9290M	M.Tech	02/06/2004	CSE	1	0	0	Assistant Professor		09/03/2022	Regular	Yes		No

DR DARA VIKRAM	CHSPD3354F	Ph.D	21/08/2018	COMPUTER SCIENCE AND SYSTEM ENGINEERING	0	0	0	Professor	09/01/2020	09/01/2020	Regular	Yes			No
MRS SK HUSSAINBI	DFJPS0129M	M.Tech	02/10/2023	CSE	0	0	0	Assistant Professor		01/01/2024	Regular	Yes			No
MR D KOTESWARA RAO	APYPD0479D	M.Tech	09/12/2013	CSE	4	0	0	Assistant Professor		01/11/2008	Regular	Yes			No
MR I NAGESWARA RAO	AAJPE3195R	M.Tech	02/03/2015	CSE	0	0	0	Assistant Professor		06/01/2016	Regular	Yes			No
MRS K SAI SULOCHANA	CJDPK3471R	M.Tech	02/10/2023	CSE	0	0	0	Assistant Professor		02/10/2023	Regular	Yes			No
MR M ARUNKUMAR	AMAPM7701Q	M.Tech	01/01/2004	CSE	0	0	0	Assistant Professor		03/05/2021	Regular	Yes			No
MR P ARAVIND	BTYPP5435L	M.Tech	02/03/2015	CSE	0	0	0	Assistant Professor		06/10/2016	Regular	Yes			No
DR Y V RAGHAVA RAO	ACDPY4427C	Ph.D	18/12/2017	DATA MINING	0	0	0	Associate Professor	03/05/2021	03/05/2021	Regular	Yes			No
MRS B SUJATHA	AMNPB4541J	M.Tech	11/04/2016	CSE	0	0	0	Assistant Professor		10/06/2019	Regular	No		18/05/2024	No
MRS M UMA DEVI	CSTPM2022D	M.Tech	03/03/2014	CSE	0	0	0	Assistant Professor		12/04/2021	Regular	Yes			No
DR KODE RAJIV	BBEPK6502R	Ph.D	18/02/2019	CSE	0	0	0	Associate Professor	21/12/2020	21/12/2020	Regular	Yes			No
DR. D SARADA MANI	ATTPD1757H	Ph.D	24/06/2019	CSE	0	0	0	Professor	29/08/2019	29/08/2019	Regular	No		18/05/2024	No
MR G ASHOK BABU	BZXPG5143F	M.Tech	03/04/2017	CSE	0	0	0	Assistant Professor		03/05/2021	Regular	Yes			No
MR ADDANKI PRAVEEN	CNKPA0778G	M.Tech	01/10/2024	CSE	0	0	0	Assistant Professor		09/10/2024	Regular	Yes			No
MRS KOPURI LAVANYA	EBQPK7677J	M.Tech	01/04/2017	CSE	0	0	0	Assistant Professor		12/05/2021	Regular	Yes			No
MR K RAMA KOTESWARA RAO	EBJPK8148B	M.Tech	01/12/2017	CSE	0	0	0	Assistant Professor		01/09/2020	Regular	Yes			No
MRS P SUJATHA	CDTPS3716F	M.Tech	18/08/2011	CSE	0	0	0	Assistant Professor		21/12/2012	Regular	No		21/05/2025	No
MRS M ALEKHYA	BTLPM1693N	M.Tech	20/07/2011	CSE	0	0	0	Assistant Professor		04/01/2021	Regular	No		20/05/2024	No
Mr GANTA SRIKANTH	NFNPS3820D	M.Tech	09/04/2022		0	0	0	Assistant Professor		09/06/2022	Regular	Yes			No
Dr G Mahesh	BASPG9439G	Ph.D	08/11/2019	COMPUTER SCIENCE AND ENGINEERING	0	0	0	Associate Professor	15/04/2022	15/04/2022	Regular	Yes			No
Dr G Kalyani	HSPK9569M	Ph.D	20/12/2019	COMPUTER SCIENCE AND ENGINEERING	0	0	0	Associate Professor	18/05/2023	18/05/2023	Regular	Yes			No

5.1 Student-Faculty Ratio (20)

Total Marks 20.00

Institute Marks : 20.00

UG

No. of UG Programs in the Department

Year of Study	CAY		CAYm1		CAYm2	
	(2024-25)		(2023-24)		(2022-23)	
	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students	Sanction Intake	Actual admitted through lateral entry students
2nd Year	150	11	150	5	120	12
3rd Year	150	5	120	12	120	12
4th Year	120	12	120	12	120	5
Sub-Total	420	28	390	29	360	29
Total	448		419		389	
Grand Total	448		419		389	

PG

No. of PG Programs in the Department

Year of Study	CAY(2024-25)		CAYm1(2023-24)		CAYm2 (2022-23)	
	Sanction Intake		Sanction Intake		Sanction Intake	
	Sanction Intake					
1st Year	36		18		18	
2nd Year	18		18		18	
Total	54		36		36	
Grand Total	54		36		36	

SFR

No. of UG Programs in the Department No. of PG Programs in the Department

Description	CAY(2024-25)	CAYm1 (2023-24)	CAYm2 (2022-23)	
Total No. of Students in the Department(S)	502	Sum total of all (UG+PG) students	455	Sum total of all (UG+PG) students
No. of Faculty in the Department(F)	38	F1	42	F2
Student Faculty Ratio(SFR)	13.21	SFR1=S1/F1	10.83	SFR2=S2/F2
Average SFR	11.47	SFR=(SFR1+SFR2+SFR3)/3	10.37	SFR3=S3/F3
F=Total Number of Faculty Members in the Department (excluding first year faculty)				

Note: All the faculty whether regular or contractual (except Part-Time), will be considered. The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the 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 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(2024-25)	38	0
CAYm1(2023-24)	42	0
CAYm2(2022-23)	41	0

Average SFR for three assessment years : 11.47

Assessment SFR : 20

5.2 Faculty Cadre Proportion (25)

Total Marks 25.00

Institute Marks : 25.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2024-25)	2.00	2.00	5.00	5.00	16.00	31.00
CAYm1(2023-24)	2.00	3.00	5.00	5.00	15.00	34.00
CAYm2(2022-23)	2.00	3.00	4.00	4.00	14.00	34.00
Average Numbers	2.00	2.67	4.67	4.67	15.00	33.00

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 12.5 : 25.00

5.3 Faculty Qualification (25)

Total Marks 22.82

Institute Marks : 22.82

	X	Y	F	FQ = 2.5 x [(10X + 4Y) / F]
2024-25(CAY)	7	31	25.00	19.40
2023-24(CAYm1)	8	34	22.00	24.55
2022-23(CAYm2)	7	34	21.00	24.52

Average Assessment : 22.82

5.4 Faculty Retention (25)

Total Marks 25.00

Institute Marks : 25.00

Description	2023-24	2024-25
No of Faculty Retained	40	33
Total No of Faculty	21	21
% of Faculty Retained	190	157

Average : 174.00

Assessment Marks : 25.00

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

Total Marks 20.00

Innovations by the Faculty in Teaching and Learning:

The Department of CSE follows a well-organized framework to integrate innovative teaching and learning techniques with conventional classroom methods. This approach ensures that modern educational strategies are smoothly woven into the standard curriculum, improving the overall teaching and learning process. The comprehensive structure for applying these methods is depicted in Figure 5.5.1 a below



Fig 5.5.1: Framework for the implementation of Innovative Teaching Learning

1. Selecting Appropriate Method: In this phase, the Program Assessment Committee (PAC) identifies innovative teaching strategies and develops a strategic plan for their effective implementation. Important aspects like course objectives, learning outcomes, and student needs are carefully taken into account.

2. Implementation Of selected Method:

During this phase, the proposed innovative teaching methods are implemented. Faculty members incorporate these approaches into their instructional practices to improve student engagement and learning outcomes.

3. Collecting Students and Peer Review Feedback:

Student feedback is collected to assess their experiences with the newly introduced teaching methods. Their insights are valuable in determining the methods' effectiveness and identifying areas for improvement. Faculty members also review the teaching techniques and offer constructive input. This peer evaluation fosters collaboration and helps refine and enhance the methods further.

4. Performance Evaluation:

This stage evaluates the overall influence of the innovative methods on student learning and engagement. Factors like student performance, participation, and comprehension are reviewed to measure the effectiveness of the approach.

Documenting and Reporting: All results from the implementation, feedback, and evaluation are recorded. This creates an official account of the process, outcomes, and recommendations for improvements to guide future practices.

5. Diffusion of New Technologies:

The successful teaching methods and their outcomes are shared both within the institution and with other institutions, encouraging the adoption of effective practices by fellow educators.

1. Appropriate methods

To enhance the quality of teaching and learning, and to encourage active student participation beyond conventional lectures, the following methods are recommended. Innovative teaching methods involve creative and impactful approaches that extend beyond textbooks. These strategies aim to engage students actively, promote critical thinking, improve learning outcomes, and create a more dynamic and relevant educational experience aligned with real-world contexts.

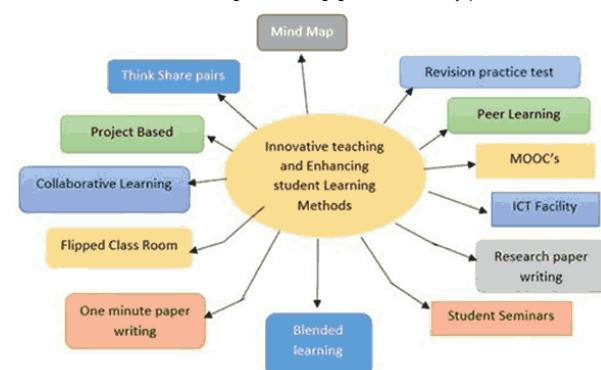


Fig:5.5.2 Innovative and Enhancing student Learning methods

Activity	Description	Outcomes	Images
Think pair share	<p>In this interactive teaching strategy, students begin by reflecting on a question individually, then exchange their ideas with a partner, and ultimately present their insights to the whole class.</p> <p>This approach is intended to enhance student engagement. It involves three stages:</p> <p>Three stages:</p> <ol style="list-style-type: none"> 1.Think 2.Pair 3.Share 	<p>These methods encourage active participation, faster reflection and promote collaboration among students.</p>	
Project Based Learning	<p>Students engage in a long-term project that challenges them to utilize a range of skills and knowledge in order to address a real-world issue.</p>	<p>These approaches encourage critical thinking, faster collaboration, and emphasize the practical application of knowledge.</p>	
Mind Map	<p>Students design visual diagrams to illustrate concepts, ideas, or topics, highlighting the connections between them.</p>	<p>Helps organize and structure thoughts, making complex information easier to understand.</p>	
Flipped Class Room	<p>Flipped Classroom involves students studying learning materials(videos,readings) at home,while class time is used for interactive,problem Solving activities.</p>	<p>Improved understanding through active participation and discussion. Enhanced problem-solving and critical Thinking skills.</p>	

One Minute Paper Writing	At the conclusion of a class, students take one minute to write down the key points of the concept they Learned from the class	Provides quick Feedback to the Instructor and Encourage students to reflect on their learning.	
Collaborative Learning	Students collaborate in teams to tackle challenges, accomplish tasks, or grasp new ideas.	Enhances Teamwork, communication skills, And deepens understanding Through peer discussion.	

Table 5.5.1: Innovative Methods

2. Strategies for Enhancing Student Learning and Engagement :

Alongside the implementation of innovative teaching methods, several other strategies have been introduced to further improve student learning and engagement. Regular Revision Practice Tests (RPT) are conducted to reinforce important concepts and ensure material retention. Peer Learning encourages students to collaborate, allowing them to learn from each other and deepen their understanding through group discussions and activities. ICT facilities have also been integrated into the curriculum, offering access to digital resources, online tools, and multimedia platforms that enhance interactive learning. Additionally, seminars are organized where students present on subject-related topics, enabling them to deepen their grasp of the material while improving their communication skills and public speaking confidence. Massive Open Online Courses (MOOC's) are also incorporated into the learning process, giving students the opportunity to explore supplementary resources, engage with experts across various fields, and expand their knowledge beyond the classroom. Lastly, students are encouraged to participate in Paper Writing and Publication initiatives, which help them develop critical thinking, research abilities, and academic writing skills. By guiding students through drafting, revising, and submitting papers for publication, this strategy boosts their academic profiles and prepares them for future research activities. The table 5.5.3 represents the Enhancing Learning methods for students

Method name	Description	Image of practice
Student Seminars	Student seminars are engaging sessions where students are given specific topics from the course to Research and present to their classmates. These seminars allow students to explore the subject in greater depth improve their presentation.	

Online Learning MOOCs	<p>MOOC's are online courses that are open to large Number of participants. They are often provided by universities Or educational platforms and cover a wide range of subjects. These courses can include video lectures, reading, readings, assessments and discussion forums.</p>  	
ICT FACILITY	<p>ICT facilities involve incorporating information and communication technology resources into the learning environment. This include digital devices, online applications, multimedia content, and interactive programme that aid in and improve the educational experience</p>  	

Table 5.5.2:Enhancing Learning Methods for students

3. Peer Review and Critique

To ensure the effective assessment and improvement of innovative practices within the department, a thorough review process is put in place. This process involves gathering feedback from faculty members of other institutions offering an external perspective on the practices. To ensure the effective assessment and improvement of innovative practices within the department, a thorough review process is put in place. This process involves gathering feedback from faculty members of other institutions offering an external perspective on the practices.

Review frequency	Peer Reviewer	Effectiveness of Blended learning	Quality of Online and In-Class Materials	Execution of Online and In-Person Activities	Overall Feedback
Twice in a year	Dr.Abburi srirama kanaka ratnam, Associate professor , CSE Dept , Malineni Lakshmaiah Women's Engineering College .	Blended Learning model was effective in enhancing students understanding of The Conversion process. By combining online and in- person instruction, students were well-prepared and able to engage deeply with the material.	The online and in-class materials were comprehensive and well-structured. However, some students found a few sections of the online content challenging. Incorporating more examples and multimedia elements could help clarify complex topics.	The balance between online and in-person activities was generally effective, though some students struggled to seamlessly transition between the two. Offering clearer Guidance and additional support during the transitions could improve the overall learning experience.	Overall,the activity was well- Received and effective. Improvements can be made by enhancing pre-class materials and ensuring all Students are prepared.

4. Reproductivity of the Work

To ensure the credibility and reliability of the educational practices implemented, it is crucial that the work is reproducible. This involves providing detailed and transparent documentation of all methodologies, procedures, and materials used in the Blended Learning and the peer review process. Additionally, feedback collected has been systematically recorded and analyzed to offer constructive insights and recommendations. By adhering to these practices, high standard of educational quality is maintained and ensured that the processes and outcomes can be reliably reproduced by other educators and researchers. This approach not only validates the effectiveness of intra institute teaching learning methods but also contributes to the broader educational community by providing a model that can be adapted and implemented in similar contexts. Their insights help evaluate the innovative methods from a wider institutional perspective, ensuring they are effective and aligned with the institution's broader academic goals and standards.

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

Total Marks 15.00

Institute Marks : 15.00

Name of the faculty	Max 5 Per Faculty		
	2023-24 (CAYm1)	2022-23 (CAYm2)	2021-22 (CAYm3)
DR.K.NAGESWAR RAO	5.00	5.00	5.00
DR.J.CHANDRA SEKHAR	5.00	5.00	5.00
V.K.PRATAP	5.00	5.00	5.00
D.HARI KRISHNA	5.00	5.00	5.00
CH.BINDU MADHAVI	5.00	5.00	5.00
Y.JESSY KUMARI	5.00	5.00	5.00
N.KANTHI PRIYADARSHINI	5.00	5.00	5.00
K.MANVITHA	5.00	5.00	4.00
B.RAJASHEKAR	5.00	4.00	4.00
G.SOWMYA	5.00	5.00	0.00
MRS.RAZIYA SULTHANA	4.00	3.00	4.00
D.THIRUPATHAMMA	5.00	5.00	5.00
P.SWATHI	4.00	4.00	5.00
S.SOJANYA	5.00	5.00	4.00
N.VAMSI KRISHNA	4.00	4.00	0.00
P.RATNA KUMARI	4.00	5.00	4.00
K.KAVYA SRI	4.00	4.00	4.00
G.SINDHUJA	4.00	5.00	0.00
SHAIK ROSHNA	4.00	5.00	0.00
N.PRADEEP KUMAR	5.00	4.00	0.00
U.VEERENDRA	5.00	4.00	4.00
V.ASHA LATHA	0.00	5.00	0.00
V.SURESH BABU	5.00	4.00	4.00
K.BALAJI	4.00	4.00	5.00
S.ANUSHA	4.00	0.00	0.00
J.RAMU	5.00	5.00	5.00
DR.DARA VIKRAM	5.00	5.00	5.00
SK .HUSSAINBI	3.00	0.00	0.00
D.KOTESWARA RAO	5.00	5.00	5.00
I.NAGESWAR RAO	5.00	5.00	5.00
K.SAI SULOCANA	4.00	0.00	0.00

M.ARUN KUMAR	4.00	3.00	4.00
P.PARAVIND	5.00	5.00	5.00
DR.Y.V.RAGHAVA RAO	5.00	5.00	5.00
B.SUJATHA	4.00	5.00	4.00
M.UMADEVI	4.00	5.00	5.00
DR.KODE RAJIV	4.00	4.00	4.00
DR.D.SARADA MANI	5.00	5.00	5.00
G.ASHOK BABU	5.00	5.00	5.00
A.PRAVEEN	5.00	0.00	0.00
K.LAVANYA	5.00	5.00	5.00
K.RAMAKOTESWARA RAO	5.00	5.00	5.00
P.SUJATHA	5.00	5.00	5.00
M.ALEKHYA	5.00	5.00	5.00
G.SRIKANTH	5.00	5.00	0.00
DR.G.MAHESH	5.00	5.00	5.00
DR.G.KALYANI	5.00	5.00	0.00
Sum	214.00	202.00	164.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	25.10	22.75	21.25
Assessment [3*(Sum / 0.5RF)]	51.16	53.27	46.31

Average assessment over 3 years: 50.25

5.7 Research and Development (30)

Total Marks 28.00

5.7.1 Academic Research (10)

Institute Marks : 10.00

1.Academic Research

Research serves as the cornerstone for advancing knowledge, enabling innovation, and creating applications that offer broad benefits. It contributes to the global pool of knowledge and generates new ideas, techniques, innovations, and methods across diverse disciplines. Faculty members at teaching-focused institutions can significantly enhance the learning experiences of students while simultaneously advancing their own research agendas.

At NRI INSTITUTE OF TECHNOLOGY(NRIIT), there is a strong emphasis on encouraging research and development among both students and faculty. The institute provides various forms of support, including financial assistance for PhD studies, access to a comprehensive digital library of national and international journals, and provisions for academic and educational leave. Additionally, the management offers financial support covering registration fees, accommodation, and travel expenses for faculty and students participating in conferences and inter-institute events. Furthermore, the institute has a robust R&D policy that includes an honorarium for faculty members who publish articles in prestigious national and international journals, such as those indexed in SCIE, ESCI, SCI, and Scopus

Faculty Publications:

Academic Year	SCI /Scopus Indexed Journals	SCOPUS Indexed conferences	UGC Listed journals	Total
2024-2025	6	6	0	12
2023-2024	4	8	0	12
2022-2023	9	0	0	9
Total	19	14	0	33

Table 5.7.1.2:List of SCI/SCIE/ESCI Indexed Publication 2024-2025

Authors	Title	Source title	years	Volume/issue/ISSN
Ch. Bindhu Madhavi	Enhancing phishing Detection with URL Title Analysis and Ensemble Machine Learning	Proceedings of the 6 th International conference on Intelligent Communication Technologies and Virtual Mobile Networks	2025	Volume no,issue,ISBN-979-8-3315-1175-3
Dr.K. Nageswara Rao	Enhancing phishing Detection with URL Title Analysis and Ensemble Machine Learning	Proceedings of the 6 th International conference on Intelligent Communication Technologies and Virtual Mobile Networks	2025	Volume no,issue,ISBN-979-8-3315-1175-3
D. Thirupathamma	Liver Disease Detection Model Using ML Ensemble Approach with Interpolative Approach As Stacked Model	6th International Conference for Emerging Technology	2025	Volume no, issue, ISBN-979-8-3315-3103-4
Dr. K. Nageswara Rao	Liver Disease Detection Model Using ML Ensemble Approach with Interpolative Approach As Stacked Model	6th International Conference for Emerging Technology	2025	Volume no, issue, ISBN-979-8-3315-3103-4
G Sowmya	Ensemble Deep Learning-Powered AI for Early Cardiovascular Disease Detection and Prediction	2025 6th International Conference for Emerging Technology	2025	Volume no, issue, ISBN-979-8-3315-3103-4

Dr. Jampani Chandra Sekhar	Automated face recognition using deep learning technique and center symmetric multivariant local binary pattern symmetric multivariant local binary pattern	SPRINGER	2024	VOLUME 37
Dr. Jampani Chandra Sekhar	Analysing Code-Mixed Text in Programming Instruction Through Machine Learning for Feature Extraction	SCOPUS	2024	VOLUME 15
Dr. Jampani Chandra Sekhar	Enhancing plant leaf disease detection: Integrating krill herd optimization-surf features and deep belief network	SCIE	2024	
Dr. Jampani Chandra Sekhar	explainable Artificial Intelligence Method for Identifying Cardiovascular Disease with a Combination CNN-XG-Boost Framework	SCOPUS	2024	21565570 2158107X (https://portal.issn.org/resource/ISSN/2156-5570)
Dr. Jampani Chandra Sekhar	Machine Learning based Early-detection of Lung Cancer Using CT Scan for the early Identification and Classification	SCIE	2024	

Table 5.7.1.2:List of SCI/SCIE/ESCI Indexed Publication 2023-2024

Authors	Title	Source title	years	Volume/Issue/ISSN
Jarubula Ramu	Quantitative Assessment of Hand signal	2023 International Conference on Network, Multimedia and Information Technology	2023	Vol no,Issue,ISSN-979-8-3503-0082
	Recognition using Landmarks Detection: A Comparative Study of MachAnine Learning Techniques			
V K Pratap	Quantitative Assessment of Hand signal	2023 International Conference on Network, Multimedia and Information Technology	2023	Vol no,Issue,ISSN-979-8-3503-0082
	Recognition using Landmarks Detection: A Comparative Study of Machine Learning Techniques			
V K Pratap	security model for cloud services based on a quantitative governance modelling approach	Journal of Theoretical and Applied Information Technology	2023	Vol. 101. Issue 7,ISSN-1992-8645

Dr.Jampani Chandra Sekhar	Brain Tumor Detection using RCNN and Mobile Net	Proceedings of the International Conference on Sustainable Computing and Smart Systems	2023	Vol. no . Issue ,ISSN- 979-8-3503-3360
V K Pratap	Brain Tumor Detection using RCNN and Mobile Net	Proceedings of the International Conference on Sustainable Computing and Smart Systems	2023	Vol. no . Issue ,ISSN- 979-8-3503-3360
Dr. Jampani Chandra Sekhar	The Social Network Dilemma: Safeguarding Privacy and Security in an Online Community	International Journal of Safety and Security Engineering	2024	Vol. 14, No. 1,
D.Koteswar rao	Classification of potato diseases using deep learning approach	International Conference	2023	22931680
D.Koteswar rao	Analysis of a multi channel learning mechanism for speech detection in social network	International Conference	2023	22931599
D.Koteswar rao	IOT - enabled potato diseases prediction using deep learning	International Conference	2023	22963711
D.Koteswar rao	AI Based WI-FI repeater for 5G data transfer	Patent	2023	6303385
Dr. Jampani Chandra Sekhar	A Hybrid DBN-GRU Model for Enhanced Sentiment Analysis in Product Reviews	SCIE	2024	VOLUME 11
Dr Jampani Chandra Sekhar	Quantitative Assessment of Hand signal Recognition using Landmarks Detection: A Comparative Study of Machine Learning Techniques	2023 International Conference on Network, Multimedia and Information Technology	2023	Vol no,Issue,ISSN-979-8-3503-0082

Table 5.7.1.2:List of SCI/SCIE/ESCI Indexed Publication 2022-2023

Authors	Title	Source title	years	Volume/issue/ISSN
V K Pratap	A plant recognition and classification based smart agriculture architecture using machine learning	The International journal of analytical and experimental modal analysis	2022	Volume XIV, issue X, ISSN- 0886-9367
D.Thirupatamma	a novel approach based on reversible data concealment for ciphered images sharing with different data hider	The International journal of analytical and experimental modal analysis	2022	Volume XIV, Issue XI, ISSN-0886-9367
V. K Pratap	a novel approach based on reversible data concealment for ciphered images sharing with different data hider	The International journal of analytical and experimental modal analysis	2022	Volume XIV, Issue XI, ISSN-0886-9367
Rajyalakshmi Prasanna	a plant recognition and classification based smart agriculture architecture using machine learning	The International journal of analytical and experimental modal analysis	2022	Volume XIV, issue X, ISSN- 0886-9367

V.K. Pratap	big data based social distance maintenance in covid-19 environment	The International Journal of analytical and experimental modal analysis	2022	Volume XIV, Issue V, ISSN-0886-9367
K. Aravindh	big data based social distance maintenance in covid-19 environment	The International Journal of analytical and experimental modal analysis	2022	Volume XIV, Issue V, ISSN-0886-9367
V.K. Pratap	a novel stroke extraction for offline recognition of handwritten formulas using deep learning approach	The International Journal of analytical and experimental modal analysis	2022	Volume XIV, Issue VI,ISSN-0886-9367

5.7.2 Sponsored Research (5)

Institute Marks : 5.00

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount
MNK EDUCATIONAL SOC	6 MONTHS	PMKVY	722908.80
STUDENT TRAINING	6 MONTHS	NRI EDUCATIONAL SOCIETY	1003389.00
			Total Amount(X): 1726297.80

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount
STUDENT TRAINING	6 MONTHS	NRI EDUCATIONAL SOCIETY	1003389.00
			Total Amount(Y): 1003389.00

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount
STUDENT TRAINING	6 MONTHS	NRI EDUCATIONAL SOCIETY	1003389.00
			Total Amount(Z): 1003389.00

Cumulative Amount(X + Y + Z) = 3733075.80

5.7.3 Development Activities (10)

Institute Marks : 10.00

A .PRODUCT DEVELOPMENT

	REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT TITLE	NAME OF THE PROJECT GUIDE
BATCH-I	21KP1A0501	VARA LAKSHMI		
	21KP1A0537	MANJULA	Face and voice recognition for secure authentication system	J.RAMU
	21KP1A0560	LASYA GAYATRI		
	21KP1A0526	MOHANA LAKSHMI		
	REGD NOS	NAME OF THE STUDENT		NAME OF THE PROJECT GUIDE
BATCH-II	21KP1A0523	SASI E		
	21KP1A0508	GAYATRI B	AI for cyber threat detection in real time	Dr K NAGESWARA RAO
	21KP1A0541	BHARGAVI K		
	21KP1A0532	PRATHYUSHA J		
	REGD NOS	NAME OF THE STUDENT		NAME OF THE PROJECT GUIDE
BATCH-III	21KP1A0549	K JAYA NAGA RAJASRI		
	21KP1A0553	K RAVALI		
	21KP1A0515	D SUPRIYA	AI Driven Sentiment analysis of social media trends	J RAMU
	REGD NOS	NAME OF THE STUDENT		NAME OF THE PROJECT GUIDE
BATCH-IV	21KP1A0510	B DIVYA		
	21KP1A0533	J KALYANI BAI	Building AI Models for interactive Arts and music Generation	V K PRATAP
	21KP1A0534	J RAMYA		
	21KP1A0539	K CHATHURYA		
	REGD NOS	NAME OF THE STUDENT		NAME OF THE PROJECT GUIDE
BATCH-V	21KP1A0529	G TEJASWINI		
	21KP1A0554	LAKSHMI THIRUPATAMMA	Face recognition system using multi angle input image	Dr K NAGESWARA RAO
	21KP1A0543	K ASHWINI		
	21KP1A0531	I TRIVENI		
	REGD NOS	NAME OF THE STUDENT		NAME OF THE PROJECT GUIDE
BATCH-VI	21KP1A0547	K LAKSHMI PRASANNA		
	21KP1A0535	K VISHNU PRIYA	Text to image conversion using advanced generative AI techniques	CH BINDU MADHAVI
	21KP1A0511	D SANDHYA		
	REGD NOS	NAME OF THE STUDENT		NAME OF THE PROJECT GUIDE
BATCH-VII	21KP1A0519	D KEERTHI		
	21KP1A0548	K MADHURI	predicting climate change impacts using deep learning	Y JESSY KUMARI
	21KP1A0558	M LAKSHMI THIRUPATAMMA		
	REGD NOS	NAME OF THE STUDENT		NAME OF THE PROJECT GUIDE
BATCH-VIII	21KP1A0559	M SAI BAJI		P RATNA KUMARI
	21KP1A0551	K VAMSISANKAR REDDY	Forecasting cryptocurrencies prices using AI models	
	21KP1A0544	K VENKATA KARTHIK		

21KP1A0530	G SAI NARENDRA		
21KP1A0503	B SAI KIRAN		
REGD NOS	NAME OF THE STUDENT		NAME OF THE PROJECT GUIDE
21KP1A0517	D HARI PURNA SHASHANK		
21KP1A0540	K SAI SANDEEP REDDY		
BATCH-IX	21KP1A0550	K PRASANTH	Adaptive AI system leveraging contextual learning for dynamic decision making
	21KP1A0552	K BOBBY	
	21KP1A0528	G NITHIN BABU	
REGD NOS	NAME OF THE STUDENT		NAME OF THE PROJECT GUIDE
21KP1A0556	M KARTHIK		
BATCH-X	21KP1A0524	G HARISH	AI Models for predicting student dropout risk in online courses
	21KP1A0518	D UMESH CHANDRA	
	21KP1A0536	K GOPI CHANDRA	
REGD NOS	NAME OF THE STUDENT		NAME OF THE PROJECT GUIDE
21KP1A0545	K GANA HARIKRISHNA		
BATCH-XI	22KP5A0509	B GURU LOKESH	Voice activated tutoring system using AI
	21KP1A0506	B TRIKANTH	
	21KP1A0514	D PHILIP JOY	
REGD NOS	NAME OF THE STUDENT		NAME OF THE PROJECT GUIDE
21KP1A0527	G RAMANJANEYULU		
BATCH-XII	21KP1A0521	D SIDDHAIAH	AI Models for fraud detection in financial transaction
	22KP5A0538	K MAHESH REDDY	
	21KP1A0516	D VENKATA NARESH	
REGD NOS	NAME OF THE STUDENT		NAME OF THE PROJECT GUIDE
21KP1A0513	C ABHILASH		
BATCH-XIII	21KP1A0507	D AVINASH	Predictive analysis of stock market trends using deep learning
	21KP1A0561	M MAHESH BABU	
	21KP1A0512	C MANIKANTA SAI	

REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT TITLE	
		PROJECT	NAME OF THE PROJECT GUIDE
21KP1A05B3	AVILALA LAKSHMI SATYA PAVANI MANASWINI	AI Powered Intrusion Detection System for Networks	
21KP1A0563	MEDARAMETLA RAJESWARI		Dr K NAGESWARA RAO
22KP5A0502	BANALA VARA PUJITHA		
21KP1A0580	PALAPALA SIVA JYOTHI		
BATCH-II	REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
	21KP1A0569	MUPPA RAMYASRI	AI Enhanced Gesture Recognition for
			Dr K NAGESWARA RAO

22KP5A0509 SHAIK MUNNISHA

22KP5A0503 CHERUKU SUPRITHA

21KP1A0596 SHAIK KASIMBE

Assitive Robots

REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
21KP1A0581	PARASA JASMINA	
BATCH-III	21KP1A05A7TIRUVEDHULA PRATHIBHA BHARATHI	AI Driven Navigation For Autonomous Vehicle In Dynamic Environments
	21KP1A0567 MOGILI POOJA	J RAMU
	21KP1A05B7YALAMARTHI YAMINI	

REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
21KP1A0577 NOUSHITHA YEPURI		Enhancing Immersive Experiences In AR/VR with AI
BATCH-IV	22KP5A0506 MEDISETTI ESTHER RANI	V K PRATAP
	21KP1A0595 SHAIK HASEENA	
	21KP1A0579 PALAGANI GAYATHRI	

REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
BATCH-V	21KP1A05A1SUSMITHA VANKAYALAPATI	AI Enhanced Medical Imaging For Early Disease Detection
	21KP1A0586 PILLI POOJITHA	Dr K NAGESWARA RAO
	21KP1A0599 SHAIK SHAHEENA	

REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
BATCH-VI	21KP1A0573 NANDIGAMA YASHASWI	AI-Based Solutions For Urban Traffic Management
	21KP1A0593 SHAIK ASEEN	D THIRUPATHAMMA
	21KP1A0564 MEKALA KUMARI	

REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
BATCH-VII	21KP1A05A9UPPU SATHVIIKA	AI For Smart Home Automation System
	21KP1A0589 REGULAGADDA BINDU MADHAVI	CH BINDU MADHAVI
	21KP1A0568 MOVVA SAI NAGA MAHA LAKSHMI	

REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
BATCH-VIII	21KP1A0585 PATTAN FEERDOSH KHAN	
	22KP5A0501 ANNA VENKATA SAI RAGHAVENDRA	
	21KP1A0597 SHAIK MOULANA	Early prediction of chronic kidney disease using machine learning
	21KP1A05A3SYED RIYAZ BASHA	Y JESSY KUMARI
	22KP5A0505 KOLAKALURI EMMANUAL RAJU	

BATCH-IX	REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
	21KP1A0565	METHANI NAGENDRA BABU	P RATNA KUMARI
	21KP1A0592	SARIPUDI SRIKANTH	Object tracking in real time using deep learning
	21KP1A0578	NUTHALAPATI JAGADEESH CHANDRA PRASAD	
	21KP1A05B5	VELPULA RAMUDU	

21KP1A0562 MARAM MAHENDRA REDDY

REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
21KP1A0582 PARIMI SAI	Detection of Fungal infections in Soyabean using Deep learning algorithms	N KANTHI PRIYADARSHINI
BATCH-X 21KP1A0591 SANDEPOGU SILUVARAJU		
22KP5A0504 DARLA SAI VENKATA TEJA		
22KP5A0511 UPPUTURI SYAMKUMAR		
REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
21KP1A05B0 VAICHARLA NARASIMHA RAO	Deep learning for Cancer	
BATCH-XI 22KP5A0510 SHEIK SAMEER	Detection using Histopathological images	S SUNITHA
21KP1A05A6 TELAGORLA KALYAN		
21KP1A05A0 SIRIPURAPU NEHEMAIAH		
REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
21KP1A05B8 YALAVARTHI BALAJI	Human Action Recognition in Surveillance System	V.K.PRATAP
BATCH-XII 21KP1A05B2 VANAPARTHI VAMSI GANESH		
22KP5A0507 MOPIDEVI POTHURAJU		
21KP1A05B9 YALLA NAGA PRAVEEN		
REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
21KP1A0594 SHAIK FAZULA MOHAMMAD	Bus Ticketing System in Java	
BATCH-XIII 21KP1A0583 PARUCHURI JAGADEESH	JSP Project Master	Dr K NAGESWARA RAO
21KP1A05B1 VAKKAPATLA DURGA PAVAN KUMAR		
21KP1A05A2 SYED NAGUL SHARIF		
REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
22KP5A0512 SIMHADRI SAIKRISHNA	Sentiment Analysis Of Student Feedback Using NLP Models	Dr K NAGESWARA RAO
BATCH-XIV 21KP1A0576 NAYUDU VAMSI		
21KP1A0574 NARAYANAM ESWAR SRI MANIKANTA		
21KP1A0598 SHAIK MUZAMMIL		
REGD NOS	NAME OF THE STUDENT	NAME OF THE PROJECT GUIDE
21KP1A0575 NARIKELLAPU NARENDRA	Indian fake currency classification into identification using feature assemble approach	J RAMU
BATCH-XV 22KP5A0508 SAMMETA VENKATESH		
21KP1A0588 REBBA MANOHAR		

B. Research laboratories

The Department of CSE is equipped with a dedicated Research Laboratory that offers advanced resources, tools, and technical support for both faculty and students. This facility promotes innovation, hands-on learning, and research activities by enabling the design, development, and testing of software solutions, algorithms, and CSE - based projects.

S. No	Name of the Laboratory	Name of the Equipment/ Software

1	<p>Lab for Advanced Information Technology Research</p> <p>Lab Equipped with</p> <p>Visual Studio Code</p> <p>Eclipse IDE</p> <p>PyCharm (for Python)</p> <p>IntelliJ IDEA (for Java)</p> <p>NetBeans</p> <p>MySQL</p> <p>PostgreSQL</p> <p>MongoDB (NoSQL)</p> <p>Oracle DB</p> <p>SQLite</p>
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C. Instructional materials

The institute provides a variety of instructional materials to facilitate effective teaching-learning and to enhance student understanding. The following resources are made available to students:

1. **Smart Lab cum Classrooms (with Multimedia Projectors):** Equipped with ICT tools for interactive and technology-enabled learning.
2. **Laboratory Manuals:** Well-prepared manuals for each laboratory course, enabling students to perform experiments systematically.
3. **Assignments:** Regularly designed assignments to improve problem-solving, analytical, and application-oriented learning.
4. **PowerPoint Presentations (PPTs):** Faculty-developed digital content for better visualization and conceptual clarity.
5. **Course Files with Handouts:** Comprehensive course files containing lecture notes, tutorial sheets, question banks, and other relevant study materials.
6. **Textbooks and Reference Books (from Library):** A well-stocked library with prescribed textbooks, reference books, journals, and e-resources to support academic requirements.

D. Working models/charts/monograms etc.

The department provides students with a range of working models, charts, and monograms that complement classroom and laboratory learning. These include:

1. **Laboratory Description Charts:** Display charts highlighting laboratory layout, safety guidelines, equipment specifications, and experimental procedures to help students gain a clear understanding before performing practicals
2. **Laboratory Manuals:** Detailed manuals that provide step-by-step instructions for conducting practical experiments and hands-on activities related to various CSE concepts. These manuals are essential teaching tools that help students and researchers gain practical experience, reinforce theoretical knowledge, and develop technical skills.
3. **Project Models:** Innovative software prototypes and project models developed by undergraduate and postgraduate students, demonstrating the practical application of theoretical knowledge, creativity, and problem-solving skills in various domains of Computer Science and Engineering .

5.7.4 Consultancy(from Industry) (5)

Institute Marks : 3.00

2023-24 (CAYm1)

Project Title	Duration	Funding Agency	Amount
APPSC GROUP -I	1 YEAR	TCS ION	25300.00
APPSC GROUP -II	1 YEAR	TCS ION	46500.00
APEAPCET	1 YEAR	TCS ION	126150.00
AP ICET	1 YEAR	TCS ION	23142.00
AP PSCDEO	1 YEAR	TCS ION	18650.00
AP LAW CET	1 YEAR	TCS ION	18650.00
TS EAPCET	1 YEAR	TCS ION	64750.00
			Total Amount(X): 323142.00

2022-23 (CAYm2)

Project Title	Duration	Funding Agency	Amount
AP TET	1 YEAR	TCS ION	72538.00
ICAI	1 YEAR	TCS ION	205200.00
			Total Amount(Y): 277738.00

2021-22 (CAYm3)

Project Title	Duration	Funding Agency	Amount
AP PSEAE	1 YEAR	TCS ION	9000.00
			Total Amount(Z): 9000.00

Cumulative Amount(X + Y + Z) = 609880.00

5.8 Faculty Performance Appraisal and Development System (FPADS) (30)

Total Marks 30.00

Performance Appraisal and Development System for All Assessment Years:

To promote excellence in teaching, research, and service, our institution has implemented a structured Faculty Performance Appraisal and Development System (FPADS). This system is designed to support the continuous professional growth of faculty members, enhance their contributions to the institution, and ensure a fair and transparent process for recognizing and rewarding their achievements.

PERFORMANCE APPRAISAL FORM (FACULTY)

Academic Year:

I. Personal Details:

Name:	
Designation:	
Department:	
Date of appointment:	
Pay Band:	
Mobile Number:	
E-mail:	

II. Summary of Activities during the academic Year:

Teaching - 40 Points				
S. No	Description	Self Appraisal	Evaluation by HOD	Evaluation by Principal
1	Student Feedback (10)			
2	Average Result of Students (5)			
3	Teaching Load and Lab Load (15)			
4	Innovations to enhance learning (5)			
5	Activities that contribute to student success in the form of improved and measurable learning outcomes (5)			
Research - 30 Points				
S. No	Description	Self Appraisal	Evaluation by HOD	Evaluation by Principal
1	Publications (10)			
2	Research Projects (funded projects) (5)			
3	Discovery/Innovation/Working Models (Patents, Creative works of arts, etc.) (5)			
4	Ph.D./ M. Tech/ B. Tech student work supervision (5)			
5	Invited Talks Delivered (5)			
Involvement in Institutional Development- 30 Points				
S. No	Description	Self Appraisal	Evaluation by HOD	Evaluation by Principal
1	Research Related Service (Reviewing for journals, serving in editorial roles, organizing research seminars, conferences, etc.) (10)			
2	Mentoring/proctor effectiveness (5)			
3	Activities that support accreditation activities (5)			
4	Administrative support to the Dept/ College (5)			
5	Co/ Extracurricular activities (e.g. entrepreneurial activities) (5)			
Total Points (Maximum 100 Points)				

Date:

Applicant's Signature

HOD Comments:

IQAC Comments:

Principal Comments:

B. Its implementation and effectiveness

Step	Activity / Input	Responsible Authority	Output / Action
1	Faculty fills in the appraisal form for the previous academic year with supporting documents	Faculty Member	Completed appraisal form submitted
2	Submission of appraisal form	Head of the Department (HOD)	Form received for evaluation
3	Evaluation of faculty performance on defined parameters	HOD	Marks awarded for departmental aspects
4	Forwarding of evaluated form	HOD → Head of the Institution	Form submitted for institutional review
5	Review and marking under institutional parameters	Head of the Institution	Additional marks awarded
6	Consolidation of marks	Institution Academic Committee / Office	Final performance score prepared
7	Follow-up actions based on overall score	Head of Institution / Management	Recognition, incentives, mentoring, or corrective measures

Follow up action taken by the Head of the Institution:

S.no	Marks	Follow Up Action Taken
1	>80	Certificate of Merit and cash Award
2	60-80	Certificate of Merit
3	<60	Counselled, advised by the HOD and principal to attend the following. 1. Advised to stay in touch with the senior faculty and get their suggestions on how to improve the performance. 2. Advised to attend FDPs and brain storming Classes.

The performance appraisal system is designed to evaluate faculty performance, identify strengths and areas for improvement, and provide constructive feedback. It helps in ensuring continuous professional development, aligning faculty roles with institutional goals, and recognizing outstanding contributions. Faculty performance is assessed annually through a structured appraisal form, which is reviewed by the Head of the Institution, and feedback is provided accordingly. Wherever improvement is required, faculty members are counselled through one-to-one interactions and encouraged to attend Faculty Development Programs (FDPs), workshops, and other training sessions to enhance their technical knowledge, teaching methodologies, and professional skills. General issues and suggestions related to faculty performance are also discussed in departmental meetings, and collective action plans are framed for improvement.

Based on the outcome of the appraisal, increments are awarded at the end of the academic year, training needs are identified, and corrective measures are taken to address any gaps in the system or policies. The appraisal results are further used to ensure the right person is assigned to the right role, and necessary training programs are implemented where required. Faculty members are repositioned in their roles based on performance, while good performers are appreciated and encouraged to excel further, and outstanding performers are recognized with rewards and awards. The appraisal system is reviewed annually by the Head of the Institution, and feedback from faculty is incorporated to strengthen the process, ensuring fairness, transparency, and alignment with the objectives of the institution.

Activity/Decision	2024-25	2023-24	2022-23
Corrective Measures taken			
No. of faculty sent for Training	2	2	2
No. of faculty sent for FDP's	3	2	3
Award/Reward			

No. of faculty received Certificate of Merit and cash Award	4	3	2
No. of faculty received Certificate of Merit	4	3	2

5.9 Visiting/Adjunct/Emeritus Faculty etc. (10)

Total Marks 10.00

Institute Marks : 10.00

Visiting/Adjunct/Emeritus Faculty etc

Adjunct faculty also includes Industry expert's provide details of participation and contributions in teaching and learning and /or research by visiting/adjunct/Emeritus faculty etc. for all the assessment years:

Provision of inviting/having visiting/adjunct/emeritus faculty(1) Minimum 50hours per year interaction with adjunct faculty from industry/retired professors etc. (Minimum 50 hours interaction in a year will result in 3 marks for that year; 3marks x3years =9marks).

To bridge the gap between industry and institute professionals from various IT industries are brought in to provide a well-balanced mix of theoretical and practical knowledge that aligns with the current demands of the IT industry. This approach has significantly aided students in securing placements in leading companies. Adjunct faculty members remain engaged in academic research throughout the academic year and work towards enhancing teaching and learning methods. They also contribute to the institution by participating in diverse activities, such as teaching, mentoring both students and faculty, and conducting research and development initiatives.

Table 5.9.1. List of visiting/adjunct/emeritus faculty members for the year 2024-25

S. No	Name of the Expert	Company Name & Designation	Course	No. of hours handled
1	Dr.A.S.N.Chakravarthy	Professor of CSE	Deep Learning	36 hrs
			Ethical Hacking	21 hrs
2	Dr M S S Sai	Prof & HOD-IT	Cyber Security	52 hrs
3	Dr.K.V.Krishna Kishore	HOD OF CSE	Data Warehousing & Data Mining	56 hrs
Total				165 hrs

Table 5.9.2. List of visiting/adjunct/emeritus faculty members for the year 2023-24

S. No	Name of the Expert	Company Name & Designation	Course	No. of hours handled
1	S.Akhilesh	IT Advisor	C language	24 hrs
			Database Management Systems	32 hrs
2	Dr. K .Nagarjuna	Associate Professor CSE	Deep learning	53 hrs
3	Dr. K. Praveen Kumar	Associate Professor, CSE Dept	Data Analytics	61 Hrs
Total				170 hrs

Table 5.9.3. List of visiting/adjunct/emeritus faculty members for the year 2022-23

S. No	Name of the Expert	Company Name & Designation	Course	No. of hours handled
1	Dr.V.Ramachandran	HOD OF CSE	Machine Learning	32 hrs
			Cyber security &Forensics	21 hrs
2	Mrs Koneru Sridevi Rao	VP, HPE Services	Computer Organization	52 Hrs
3	Dr.T.HitendraSharma	HOD OF CSE	Software Project Management	56 hrs
Total				161 hrs

6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 80.00

6.1 Adequate and well equipped laboratories, and technical manpower (30)

Total Marks 30.00

Institute Marks : 30.00

Sr. No	Name of the Laboratory	Number of students per set up(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	Basic Programming Lab	60	System Model: HP ProDesk 400 G5 SFF Processor: Intel(R) Core(TM) i5-9500T CPU @ 2.20GHz, 2208 Mhz, 6 Core(s), 6 Logical Processor(s), 16gb DDR4 RAM/ 512GB SATA SSD/WINDOWS-10 Pro SL,64 BIT/ HP Keypad & Mouse /HP 19.5" LED TFT Monitor	Semester I Total: 36 Hours per week Semester II Total: 36 Hours per week	Mrs. Karishma Bhanu	Programmer	B.TECH
2	Networks Lab	48	Lenovo_mttt_90kb_bu_Lenovo_fm_idea center 5105-07CB i5 6thGen CPU Configuration 8GB RAM128GB SSD Dell Keyboard and Mouse, Power Cabel 18.5 Monitor	Semester I Total: 36 Hours per week Semester II Total: 36 Hours per week Utilization:90%	Ms. N. Jhansi	Programmer	M.Sc
3	Advanced Computing Lab1	70	LENOVO_MT_THINKCENTER M710e / Intel Core i3, 6th Gen processor/16gb DDR4 RAM/256 M.2 SSD, 1TB SATAHDD / WINDOWS-10 Pro 64BIT/HP Keypad & Mouse /HP 19.5" LED TFT Monitor	Semester I Total: 36 Hours per week Semester II Total: 36 Hours per week	Ms. N. Yoga Chandana	Programmer	MCA
4	Advanced Computing Lab2	50	Optiplex 3020 DELL i5 6thGen CPU Configuration 8GB RAM128GB SSD & 500GB SATA HDD Dell Keyboard and Mouse, Power Cabel 18.5 Monitor	Semester I Total: 36 Hours per week Semester II Total: 36 Hours per week	Ms. U Sravanthi	Programmer	MCA
5	Advanced Computing Lab3	50	Microsoft Windows10 Pro Processor: Intel(R) Core (TM) i3-8100 CPU @ 3.60GHz, 3600 Mhz, 4 Core(s), 4 Logical Processor(s) Lenovo ideacenter 5105-07CB i3 8thGen CPU Configuration 16GB RAM 256GB SSD & 500GB SATA HDD, Dell Keyboard & Mouse, Power Cabel 18.5 Monitor	Semester I Total: 36 Hours per week Semester II Total: 36 Hours per week	Ms. M.Anusha	Programmer	MCA
6	Project Lab	50	HP ProDesk 400 G5 SFF Processor: Intel® Core (TM) i5-9500T CPU @ 2.20GHz, 2208 Mhz, 6 Core(s), 6 Logical Processor(s), 16gb DDR4 RAM/ 512GB SATA SSD/WINDOWS-10 Pro SL,64 BIT/ HP Keypad & Mouse /HP 19.5" LED TFT Monitor	Semester I Total:36 Hours per week Semester II Total:36 Hours per week	Mrs. M.Subhasini	Programmer	MCA
7	Computing LAB1(B Block Ground Floor)	60	Microsoft Windows10 Pro Processor: Intel(R) Core (TM) i5-6500 CPU @ 3.20GHz, 3192 Mhz, 4 Core(s), 4 Logical pro... 16GB RAM 512GB SSD & 500GB SATA HDD, HP Keyboard & Mouse, Power Cabel 19.5 Monitor	Semester I Total:36 Hours per week Semester II Total:36 Hours per week	Mrs N. N Bhuvneswari	Programmer	B.Tech
8	Computing LAB2(B Block 1st Floor DS LAB)	60	Microsoft Windows10 Pro Processor: Intel(R) Core (TM) i5-6500 CPU @ 3.20GHz, 3192 Mhz, 4 Core(s), 4 Logical pro... 16GB RAM 512GB SSD & 500GB SATA HDD, HP Keyboard & Mouse, Power Cabel 19.5 Monitor	Semester I Total:36 Hours per week Semester II Total:36 Hours per week	Mrs. M. Roja	Programmer	MCA
9	Computing LAB3(B Block 1st Floor Lab) B-111	60	Microsoft Windows10 Pro Processor: Intel(R) Core (TM) i5-4590 CPU @ 3.30GHz, 3301 Mhz, 4 Core(s), 4 Logical pro. Dell 8GB RAM 128GB SSD & 500GB SATA HDD, Zebronics Keyboard & Mouse, Power Cabel 16 Monitor	Semester I Total:36 Hours per week Semester II Total:36 Hours per week	Mrs. Sk. Salma	Programmer	B.Tech

10	Computing LAB4	60	System Model: HP ProDesk 400 G5 SFF Processor: Intel(R) Core(TM) i5-9500T CPU @ 2.20GHz, 2208 Mhz, 6 Core(s), 6 Logical Processor(s), 16gb DDR4 RAM/ 512GB SATA SSD/WINDOWS-10 Pro SL,64 BIT/ HP Keypad & Mouse /HP 19.5" LED TFT Monitor	Semester I Total:36 Hours per week Semester II Total:36 Hours per week	Mr Sk Khaja Vali	Programmer	MCA
11	Computing LAB5	60	System Model: HP ProDesk 400 G5 SFF Processor: Intel(R) Core(TM) i5-9500T CPU @ 2.20GHz, 2208 Mhz, 6 Core(s), 6 Logical Processor(s), 16gb DDR4 RAM/ 512GB SATA SSD/WINDOWS-10 Pro SL,64 BIT/ HP Keypad & Mouse /HP 19.5" LED TFT Monitor	Semester I Total:36 Hours per week Semester II Total:36 Hours per week	Mrs K Praveena	Programmer	MCA

6.2 Additional facilities created for improving the quality of learning experience in laboratories (25)

Total Marks 25.00

Institute Marks : 25.00

Sr. No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1	IOT Lab	IoT kits with Arduino, Raspberry Pi, sensors, actuators, cloud platforms (AWS, Azure).	To give practical exposure to IoT-based applications and embedded systems.	Used for IoT subject labs, workshops, industry projects, and student innovations.	IoT system design, real-time monitoring, smart applications.	PO3, PO5, PO6, PO12, PSO3
2	Virtual Lab	Online / cloud-based lab for Programming, DBMS, OS, CN, Compiler Design simulations.	Enables any time-any where access to do experiments and reduce dependency on physical labs.	Used by students for practice, assignments, projects, and online experiments.	Programming skills, debugging, database management, networking concepts.	PO1, PO2, PO4, PSO1
3	Data Analytics Lab	Software tools like Hadoop, Spark, R, Tableau, Power BI	To develop skills in big data analysis and visualization.	Used in Data Science/Analytics courses, projects, and research	Data processing, visualization, decision-making insights.	PO2, PO4, PO5, PSO2
4	Network Simulation Lab (NS2/NS3)	Open-source network simulators for Computer Networks and Wireless Communication.	To simulate and analyze routing, congestion, and wireless protocols without costly hardware.	Used in CN, Ad-hoc networks, and research projects.	Networking protocols, wireless communication, performance analysis.	PO1, PO2, PO4, PSO2
5	Open-Source Software Facility	Tools like Scilab, Octave, OpenCV, Weka, TensorFlow, Python libraries (NumPy, Pandas).	To reduce dependency on licensed software and promote open-source culture.	Used across courses, research, and student projects.	Data analysis, AI/ML model building, scientific computation.	PO2, PO4, PO12, PSO1, PSO2
6	Project Laboratory	Dedicated lab space with PCs, licensed/open-source software, internet, and hardware kits for projects.	To encourage innovation, interdisciplinary projects, and industry collaborations.	Used by final year & mini-project students, hackathons, start-up ideas.	Problem-solving, design thinking, teamwork, real-world solutions.	PO3, PO5, PO6, PO8, PO12, PSO1, PSO3
7	CISCO Networking Academy Lab	Equipped with CISCO Routers, Switches, Firewalls, and Packet Tracer simulation software. Integrated with CISCO Networking Academy portal.	To provide industry-standard training in networking, cybersecurity, and CCNA certification readiness.	Students utilize lab for Computer Networks course, mini-projects, CISCO Academy courses, and certification training (CCNA, CyberOps).	Networking, Routing & Switching, Cybersecurity, Cloud Computing, Industry readiness	PO1, PO2, PO3, PO5, PO12, PSO1, PSO2
8	EduSkills Labs	Set up in collaboration with EduSkills Foundation to provide students access to industry-focused courses, tools, and certifications in domains such as Cloud Computing, AI/ML, Cybersecurity, RPA, and DevOps.	To bridge the gap between academics and industry by offering globally recognized certifications and hands-on training.	Students utilize EduSkills Lab for industry certification programs, online training, capstone projects, and internship opportunities.	Cloud technologies, AI/ML, Cybersecurity, DevOps, Data Science, RPA, Employability Skills	PO1, PO2, PO3, PO5, PO9, PO12, PSO1, PSO2, PSO3

6.3 Laboratories: Maintenance and overall ambiance (10)

Total Marks 10.00

Institute Marks : 10.00

The Department is equipped with sophisticated laboratories and state of art instruments to satisfy the curriculum requirements. All laboratories are spacious, well ventilated and provided with adequate electrical fittings to take care of ambiance. Salient features regarding maintenance and ambience of laboratory facilities are as follows

Maintenance:

1. All the essential software used in computer labs are installed and maintained.
2. Breakdown & Maintenance register is maintained in the laboratories.
3. Stock registers are maintained in each laboratory and verified regularly.
4. Qualified technical assistants are available for maintenance of the equipments and software in labs.
5. Regular maintenance of computers is carried out.

Ambiance:

1. Ambience has been given special importance for the students in order to that may feel refreshed when they are in the campus
2. Green lawn was developed and trees grown in the campus for good ambience and greenery.
3. To add the protection of environment and to reduce the load on conventional electrical energy. 100kW solar plant is located on the rooftop.
4. Department has enough labs which are used for all the years on timetable basis to meet the curriculum requirements.
5. Labs are equipped with sufficient hardware and licensed/ open source software to run program specific curriculum and off program curriculum.
6. Department is having four 10KVA UPS, 240V DC along with batteries are used in case of power failure in the PC system labs.
7. All laboratories are acoustics having sufficient natural light and proper ventilation
8. Cup-boards are available in each lab for students to place their belongings.
9. Each Lab is equipped with green/white board facilities, computer, Internet, and such other amenities.
10. E-Journals and magazine are available in department library.
11. Virtual labs are available for additional experimental works.

6.4 Project laboratories (5)

Total Marks 5.00

Project Lab:

Facilities:

No.of. PCs available:50

- Technical support for the students available throughout the day.
- All other labs (AI, machine learning, IOT Lab, Embedded System lab etc.) are open for the students to completion of their projects throughout the day.
- MOU with industries to support students.
- 100KW solar power plant.
- Project/Research lab is exclusively for the research and project work with the

Hardware and software facilities listed below

Sr. No.	Name of the Facilities	Utilization
1.	Project Lab	UG/PG students and Faculty members utilize for their minor projects, major projects, and research activities.
2.	Arduino Kits (Arduino UNO, Nano, Mega)	Used in IoT, Embedded System, and Robotics projects
3.	Raspberry Pi Boards	Utilized for IoT and AI-based mini projects
4.	Sensor Modules (Temperature, Humidity, Gas, IR, Ultrasonic, etc.)	IoT and Smart System projects
5.	Robotics Kits (Motors, Servo, Motor Drivers, Wheels, Chassis)	For robotics and automation projects
6.	Python (with Anaconda: NumPy, Pandas, TensorFlow, Keras, OpenCV)	AI, ML, Deep Learning, Data Science, Computer Vision projects
7.	NS2 / NS3, Packet Tracer, GNS3	Networking and communication system projects
8.	MySQL / PostgreSQL	Database projects, data management applications
9.	GitHub / GitLab / Jupyter Notebook	Collaborative coding, version control, and documentation
10.	LaTeX, Grammarly, Turnitin	Project report preparation, plagiarism check, and technical writing

Best three projects since 2024 Admitted Batch (2020-2024):

S NO.	Project Title	Name	Guide Name	Domain
1	DIGITAL SIGNATURE USING MACHINE LEARNING	GADDAM BALANKI REDDY	Mr. V K PRATAP	Machine learning
2	BIGMARTSALES USING MACHINE LEARNING WITH DATA ANALYSIS	JANDHYALA SITHIKANTA MURTHY	Mr. V K PRATAP	Machine Learning

8	BIGMART SALES USING MACHINE LEARNING WITH DATA ANALYSIS	PATHURI RAMADEVI	Mrs. N KANTHI PRIYA DARSHINI	Machine Learning
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Some of the projects carried out by the students in this laboratory:

S.N	REGD.NO	NAME OF THE PROJECT TITLE	NAME OF THE GUIDE
1	20KP1A0501	SENTIMENT ANALYSIS OF TWITTER DATA USING MACHINE LEARNING	Dr. J C SEKHAR
2	20KP1A0502	NUERAL MACHINE TRANSLATION BY LSTM USING MACHINE LEARING	J RAMU
3	20KP1A0503	PREDICTION OF STUDENT PERFORMANCE USING MACHINE LEARNING	V K PRATAP
4	20KP1A0504	DETCTNG PHISHING WESITE USING MACHINE LEARNING	N R L PRASANNA
5	20KP1A0505	PREDICTING RAINFALL USING MACHINE LEARING TECHNIQUES	N KANTHI PRIYA DARSHINI
6	20KP1A0506	CRIME PREDICTION AND ANALYSIS USING MACHINE LEARNING	G SOWMYA
7	20KP1A0507	LUNG CANCER DETECTION USING DEEP LEARNING	CH BINDU MADHAVI
8	20KP1A0508	SIGN LANGUANGE INTERPRETER USING DEEP LEARNING	D THIRUPATAMMA
9	20KP1A0509	BIGMART SALES USING MACHINE LEARNING WITH DATA ANALYSIS	G PRAVEEN
10	20KP1A0510	FBI CRIME DATA ANALYSIS USING MACHINE LEARNING	Dr. J C SEKHAR
11	20KP1A0511	CAR PRICE PREDICTION USING MACHINE LEARNING WITH PYTHON	J RAMU
12	20KP1A0512	EMOTION DETECTON USING DEEP LEARNING	V K PRATAP
13	20KP1A0513	FINDING THE BEST FEATURES FOR PREDICTING MODES OF CHILD BIRTH	N R L PRASANNA
14	20KP1A0514	MASTERS THESIS USING MACHINE LEARNING	N KANTHI PRIYA DARSHINI
15	20KP1A0515	ANDROID SECURITY	G SOWMYA
16	20KP1A0516	DETECTING PHISHING WEBSITES USING MACHINE LEARNING	CH BINDU MADHAVI
17	20KP1A0517	CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING	D THIRUPATAMMA
18	20KP1A0518	FACE RECOGNITION USING MACHINE LEARNING	G PRAVEEN
19	20KP1A0519	PRODUCT DELIVERY WITH REINFORCEMENT	Dr. J C SEKHAR
20	20KP1A0520	FAKE NEWS DETECTION USING MACHINE LEARNING	J RAMU
21	20KP1A0521	VIRTUAL PERSONAL DESKTOP VOICE ASSISTANT	V K PRATAP
22	20KP1A0522	FACE MASK DETECTION USING DEEP LEARNING	N R L PRASANNA
23	20KP1A0523	ANALYSIS ON STUDENT FEEDBACK USING MACHINE LEARNING	N KANTHI PRIYA DARSHINI
24	20KP1A0524	CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING	G SOWMYA
25	20KP1A0525	LANGUAGE DETECTION - MACHINE LEARNING APP	CH BINDU MADHAVI
26	20KP1A0526	DIGITAL SIGNATURE USING MACHINE LEARNING	V K PRATAP
27	20KP1A0527	MELODY MUZIK	G PRAVEEN
28	20KP1A0529	SENTIMENT ANALYSIS OF TWITTER DATA USING MACHNE LEARNING	Dr. J C SEKHAR
29	20KP1A0531	NUERAL MACHINE TRANSLATION BY LSTM USING MACHINE LEARING	J RAMU
30	20KP1A0532	PREDICTION OF STUDENT PERFORMANCE USING MACHINE LEARNING	G PRAVEEN
31	20KP1A0533	DETCTNG PHISHING WESITE USING MACHINE LEARNING	N R L PRASANNA
32	20KP1A0534	PREDICTING RAINFALL USING MACHINE LEARING TECHNIQUES	N KANTHI PRIYA DARSHINI
33	20KP1A0535	CRIME PREDICTION AND ANALYSIS USING MACHINE LEARNING	G SOWMYA
34	20KP1A0536	LUNG CANCER DETECTION USING DEEP LEARNING	CH BINDU MADHAVI
35	20KP1A0538	SIGN LANGUANGE INTERPRETER USING DEEP LEARNING	D THIRUPATAMMA
36	20KP1A0539	BIGMART SALES USING MACHINE LEARNING WITH DATA ANALYSIS	V K PRATAP
37	20KP1A0540	FBI CRIME DATA ANALYSIS USING MACHINE LEARNING	Dr. J C SEKHAR
38	20KP1A0541	CAR PRICE PREDICTION USING MACHINE LEARNING WITH PYTHON	V K PRATAP
39	20KP1A0542	EMOTION DETECTON USING DEEP LEARNING	J RAMU

40	20KP1A0543FINDING THE BEST FEATURES FOR PREDICTING MODES OF CHILD BIRTHN R L PRASANNA	
41	20KP1A0544MASTERS THESIS USING MACHINE LEARNING	V K PRATAP
42	20KP1A0545FAKE NEWS DETECTION USING MACHINE LEARNING	G SOWMYA
43	20KP1A0546VIRTUAL PERSONAL DESKTOP VOICE ASSISTANT	CH BINDU MADHAVI
44	20KP1A0547FACE MASK DETECTION USING DEEP LEARNING	D THIRUPATAMMA
45	20KP1A0549ANALYSIS ON STUDENT FEEDBACK USING MACHINE LEARNING	G PRAVEEN
46	20KP1A0551CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING	Dr. J C SEKHAR
47	20KP1A0552LANGUAGE DETECTION - MACHINE LEARNING APP	J RAMU
48	20KP1A0553DIGITAL SIGNATURE USING MACHINE LEARNING	V K PRATAP
49	20KP1A0554MELODY MUZIK	N R L PRASANNA
50	20KP1A0556BIGMART SALES USING MACHINE LEARNING WITH DATA ANAYLISI	N KANTHI PRIYA DARSHINI
51	20KP1A0557FBI CRIME DATA ANALYSIS USING MACHINE LEARNING	G SOWMYA
52	20KP1A0558 CAR PRICE PREDICTION USING MACHINE LEARNING WITH PYTHON	CH BINDU MADHAVI
53	20KP1A0559EMOTION DETECTON USING DEEP LEARNING	D THIRUPATAMMA
54	20KP1A0560FINDING THE BEST FEATURES FOR PREDICTING MODES OF CHILD BIRTHG PRAVEEN	
S.No	REGD.NO NAME OF THE PROJECT TITLE	NAME OF THE GUIDE
1	20KP1A0561FBI CRIME DATA ANALYSIS USING MACHINE LEARNING	Dr. J C SEKHAR
2	20KP1A0562 CAR PRICE PREDICTION USING MACHINE LEARNING WITH PYTHON	V K PRATAP
3	20KP1A0563EMOTION DETECTON USING DEEP LEARNING	J RAMU
4	20KP1A0566FINDING THE BEST FEATURES FOR PREDICTING MODES OF CHILD BIRTHN R L PRASANNA	
5	20KP1A0567MASTERS THESIS USING MACHINE LEARNING	N KANTHI PRIYA DARSHINI
6	20KP1A0568FAKE NEWS DETECTION USING MACHINE LEARNING	G SOWMYA
7	20KP1A0569VIRTUAL PERSONAL DESKTOP VOICE ASSISTANT	CH BINDU MADHAVI
8	20KP1A0570FACE MASK DETECTION USING DEEP LEARNING	D THIRUPATAMMA
9	20KP1A0571ANALYSIS ON STUDENT FEEDBACK USING MACHINE LEARNING	G PRAVEEN
10	20KP1A0572CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING	Dr. J C SEKHAR
11	20KP1A0573LANGUAGE DETECTION - MACHINE LEARNING APP	J RAMU
12	20KP1A0574DIGITAL SIGNATURE USING MACHINE LEARNING	D THIRUPATAMMA
13	20KP1A0575MELODY MUZIK	N R L PRASANNA
14	20KP1A0578BIGMART SALES USING MACHINE LEARNING WITH DATA ANAYLISI	N KANTHI PRIYA DARSHINI
15	20KP1A0579FBI CRIME DATA ANALYSIS USING MACHINE LEARNING	G SOWMYA
16	20KP1A0581 CAR PRICE PREDICTION USING MACHINE LEARNING WITH PYTHON	CH BINDU MADHAVI
17	20KP1A0582EMOTION DETECTON USING DEEP LEARNING	D THIRUPATAMMA
18	20KP1A0583FINDING THE BEST FEATURES FOR PREDICTING MODES OF CHILD BIRTHG PRAVEEN	
19	20KP1A0584SENTIMENT ANALYSIS OF TWITTER DATA USING MACHNE LEARNING	Dr. J C SEKHAR
20	20KP1A0585NUERAL MACHINE TRANSLATION BY LSTM USING MACHINE LEARING	J RAMU
21	20KP1A0586PREDICTION OF STUDENT PERFORMANCE USING MACHINE LEARNING	V K PRATAP
22	20KP1A0588DECTCTNG PHISHING WESITE USING MACHINE LEARNING	N R L PRASANNA
23	20KP1A0589PREDICTING RAINFALL USING MACHINE LEARING TECHNIQUES	N KANTHI PRIYA DARSHINI
24	20KP1A0590 CRIME PREDICTION AND ANALYSIS USING MACHINE LEARNING	G SOWMYA
25	20KP1A0591LUNG CANCER DETECTION USING DEEP LEARNING	CH BINDU MADHAVI
26	20KP1A0592SIGN LANGUANGE INTERPRETER USING DEEP LEARNING	D THIRUPATAMMA
27	20KP1A0593BIGMART SALES USING MACHINE LEARNING WITH DATA ANAYLISI	G PRAVEEN
28	20KP1A0594FBI CRIME DATA ANALYSIS USING MACHINE LEARNING	Dr. J C SEKHAR
29	20KP1A0595 CAR PRICE PREDICTION USING MACHINE LEARNING WITH PYTHON	J RAMU
30	20KP1A0596EMOTION DETECTON USING DEEP LEARNING	V K PRATAP
31	20KP1A0597FINDING THE BEST FEATURES FOR PREDICTING MODES OF CHILD BIRTHN R L PRASANNA	

32 20KP1A0598MASTERS THESIS USING MACHINE LEARNING	N KANTHI PRIYA DARSHINI
33 20KP1A0599ANDRIOD SECURITY	G SOWMYA
34 20KP1A05A0DETECTING PHISHING WEBSITES USING MACHINE LEARNING	CH BINDU MADHAVI
35 20KP1A05A1CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING	D THIRUPATAMMA
36 20KP1A05A2FACE RECOGNITION USING MACHINE LEARNING	G PRAVEEN
37 20KP1A05A3PRODUCT DELIVERY WITH REINFORCEMENT	Dr. J C SEKHAR
38 20KP1A05A4LANGUAGE DETECTION - MACHINE LEARNING APP	J RAMU
39 20KP1A05A5DIGITAL SIGNATURE USING MACHINE LEARNING	V K PRATAP
40 20KP1A05A6MELODY MUZIK	N R L PRASANNA
41 20KP1A05A7SENTIMENT ANALYSIS OF TWITTER DATA USING MACHNE LEARNING	N KANTHI PRIYA DARSHINI
42 20KP1A05A8NUERAL MACHINE TRANSLATION BY LSTM USING MACHINE LEARING	G SOWMYA
43 20KP1A05A9PREDICTION OF STUDENT PERFORMANCE USING MACHINE LEARNING	CH BINDU MADHAVI
44 20KP1A05B0DETCTNG PHISHING WESITE USING MACHINE LEARNING	D THIRUPATAMMA
45 20KP1A05B1PREDICTING RAINFALL USING MACHINE LEARING TECHNIQUES	G PRAVEEN
46 21KP5A0501PREDICTION OF STUDENT PERFORMANCE USING MACHINE LEARNING	Dr. J C SEKHAR
47 21KP5A0502DETCTNG PHISHING WESITE USING MACHINE LEARNING	J RAMU
48 21KP5A0503PREDICTING RAINFALL USING MACHINE LEARING TECHNIQUES	V K PRATAP
49 21KP5A0504 CRIME PREDICTION AND ANALYSIS USING MACHINE LEARNING	N R L PRASANNA
50 21KP5A0505LUNG CANCER DETECTION USING DEEP LEARNING	N KANTHI PRIYA DARSHINI
51 21KP5A0506SIGN LANGUANGE INTERPRETER USING DEEP LEARNING	G SOWMYA
52 21KP5A0507BIGMART SALES USING MACHINE LEARNING WITH DATA ANAYLISIS	CH BINDU MADHAVI
53 21KP5A0508FBI CRIME DATA ANALYSIS USING MACHINE LEARNING	D THIRUPATAMMA
54 21KP5A0509 CAR PRICE PREDICTION USING MACHINE LEARNING WITH PYTHON	G PRAVEEN
55 21KP5A0510EMOTION DETECTON USING DEEP LEARNING	Dr. J C SEKHAR
56 21KP5A0511FINDING THE BEST FEATURES FOR PREDICTING MODES OF CHILD BIRTHJ RAMU	

6.5 Safety measures in laboratories (10)

Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Basic Programming Lab	Dos & Don'ts are displayed in the laboratory. Fire extinguisher and Sand buckets are available in case of emergency. First aid kit is available in the laboratory. Standard Operating Procedure (SOP) is displayed and followed for each equipment. External devices cannot be accessed without scanning them for computer viruses. Computers are cleaned on a regular maintenance is under taken. Air conditioners are installed to maintain a low temperature in the laboratory.
2	Networks Lab	Dos & Don'ts are displayed in the laboratory. Fire extinguisher and Sand buckets are available in case of emergency. First aid kit is available in the laboratory. Standard Operating Procedure (SOP) is displayed and followed for each equipment. External devices cannot be accessed without scanning them for computer viruses. Computers are cleaned on a regular maintenance is under taken. Air conditioners are installed to maintain a low temperature in the laboratory.
3	Advanced Computing Lab1	Dos & Don'ts are displayed in the laboratory. Fire extinguisher and Sand buckets are available in case of emergency. First aid kit is available in the laboratory. Standard Operating Procedure (SOP) is displayed and followed for each equipment. External devices cannot be accessed without scanning them for computer viruses. Computers are cleaned on a regular maintenance is under taken. Air conditioners are installed to maintain a low temperature in the laboratory.
4	Advanced Computing Lab2	Dos & Don'ts are displayed in the laboratory. Fire extinguisher and Sand buckets are available in case of emergency. First aid kit is available in the laboratory. Standard Operating Procedure (SOP) is displayed and followed for each equipment. External devices cannot be accessed without scanning them for computer viruses. Computers are cleaned on a regular maintenance is under taken. Air conditioners are installed to maintain a low temperature in the laboratory.
5	Advanced Computing Lab3	Dos & Don'ts are displayed in the laboratory. Fire extinguisher and Sand buckets are available in case of emergency. First aid kit is available in the laboratory. Standard Operating Procedure (SOP) is displayed and followed for each equipment. External devices cannot be accessed without scanning them for computer viruses. Computers are cleaned on a regular maintenance is under taken. Air conditioners are installed to maintain a low temperature in the laboratory.
6	Projects Lab	Dos & Don'ts are displayed in the laboratory. Fire extinguisher and Sand buckets are available in case of emergency. First aid kit is available in the laboratory. Standard Operating Procedure (SOP) is displayed and followed for each equipment. External devices cannot be accessed without scanning them for computer viruses. Computers are cleaned on a regular maintenance is under taken. Air conditioners are installed to maintain a low temperature in the laboratory.
7	Computing Lab1	Dos & Don'ts are displayed in the laboratory. Fire extinguisher and Sand buckets are available in case of emergency. First aid kit is available in the laboratory. Standard Operating Procedure (SOP) is displayed and followed for each equipment. External devices cannot be accessed without scanning them for computer viruses. Computers are cleaned on a regular maintenance is under taken. Air conditioners are installed to maintain a low temperature in the laboratory.
8	Computing Lab2	Dos & Don'ts are displayed in the laboratory. Fire extinguisher and Sand buckets are available in case of emergency. First aid kit is available in the laboratory. Standard Operating Procedure (SOP) is displayed and followed for each equipment. External devices cannot be accessed without scanning them for computer viruses. Computers are cleaned on a regular maintenance is under taken. Air conditioners are installed to maintain a low temperature in the laboratory.

9	Computing Lab3	Dos & Don'ts are displayed in the laboratory. Fire extinguisher and Sand buckets are available in case of emergency. First aid kit is available in the laboratory. Standard Operating Procedure (SOP) is displayed and followed for each equipment. External devices cannot be accessed without scanning them for computer viruses. Computers are cleaned on a regular maintenance is under taken. Air conditioners are installed to maintain a low temperature in the laboratory.
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7 CONTINUOUS IMPROVEMENT (50)

Total Marks 50.00

7.1 Actions taken based on the results of evaluation of each of the POs & PSOs (20)

Total Marks 20.00

Institute Marks : 20.00

POs Attainment Levels and Actions for Improvement- (2023-24)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	1.8	2.29	Target is achieved However, there is a scope for improvement in the following subjects: C214(Software Engineering), C314(Digital and Logical Design), C411(Cyber Security and Forensics)
Action 1: Encourage students to apply SDLC models through mini-project and case studies(C214). Action 2: Motivate students to practice designing and simulating digital circuits using software tools(C314). Action 3: Encourage students to analyze real-world case studies of cyber-attacks and practice forensic investigation techniques(C411)			
PO 2 : Problem Analysis			
PO 2	1.8	2.08	Target is achieved However, there is a scope for improvement in the following subjects : C221(Probability & Statics), C315(Software Project Management), C414(Basic Electronic)
Action 1: Strengthen understanding by solving real-life data analysis problems and statistical case studies(C221) Action 2: Encourage students to prepare project schedules and resource allocation plans through practical mini-projects(C414) Action 3: Motivate students to perform circuit experiments and simulations to connect theory with practical applications(C315)			
PO 3 : Design/development of Solutions			
PO 3	1.8	1.90	Target is achieved However, there is a scope for improvement in the following subjects : C117(Chemistry Laboratory), C121(Engineering Physics), C213(Operating System), C413(Ethical Hacking)
Action 1: Encourage students to perform experiments carefully and relate results to real-life industrial applications C117 Action 2: Motivate students to apply physics concepts in practical demonstrations and problem-solving exercises C121 Action 3: Strengthen learning by implementing OS concepts like process scheduling and memory management through lab programs C213 Action 4: Encourage students to practice penetration testing and vulnerability assessment on simulated environments C413			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.8	1.80	Target is achieved However, there is a scope for improvement in the following subjects : C118(Engineering Workshop), C211(Mathematics-III), C212(Oop through C++), C322 (Compiler Design)
Action 1: Motivate students to gain hands-on skills by practicing fitting, carpentry, and fabrication exercises C118 Action 2: Encourage students to apply mathematical concepts in solving engineering-related real-time problems C211 Action 3: Strengthen learning by developing mini-projects using OOP principles like inheritance and polymorphism C212 Action 4: Teaches students how programming languages are translated into executable codes. C322			
PO 5 : Modern Tool Usage			
PO 5	1.8	1.99	Target is achieved However, there is a scope for improvement in the following subjects : C124(Engineering Graphics), C223(Formal Languages & Automata Theory)
Action 1: Encourage students to practice 2D and 3D drawings using CAD tools for better visualization skills C124 Action 2: Motivate students to design and analyze automata and grammars through practical problem-solving C223			
PO 6 : The Engineer and Society			
PO 6	1.8	1.32	Target not achieved Due to the lower attainment in few courses such as: C119(Computer Programming-laboratory),C126(Data-Structure), C323(Cryptography & Network Security) Observations: <input checked="" type="checkbox"/> Identifying inadequate knowledge in application of engineering mechanics for the needs of the society among the students <input type="checkbox"/> Students are unable to figure out the Software Project Management life cycles <input checked="" type="checkbox"/> Students are unable to understand real time e-Comers how it
Action 1: Motivate students to develop programs for real-world problems to strengthen coding skills C119 Action 2: Encourage students to implement different data structures through coding assignments and case studies C126 Action 3: Strengthen learning by practicing encryption, decryption, and network security algorithms in lab sessions C323			
PO 7 : Environment and Sustainability			
PO 7	1.8	1.28	Target is not achieved However, there is a scope for improvement in the following subjects : C112(Chemistry), C123(Basical Electronics and Electrical Engineering), C222(Data Base Management System) There is a need for the students to know how the engineering solutions will help the Environment and society.
Action 1: Motivate students to apply chemistry concepts in industrial and environmental applications through experiments C112 Action 2: Encourage students to perform circuit analysis and verify results through lab experiments C123 Action 3: Strengthen learning by designing and implementing databases with SQL queries and real-time case studies C222			
PO 8 : Ethics			
PO 8	1.8	1.36	Target is not achieved However, there is a scope for improvement in the following subjects : C129 (Data Structure Laboratory), C316 (Data Base Management System), C321 (Machine Learning)
Action 1: Builds strong problem-solving and programming skills by teaching efficient ways C129 Action 2: Enhances students' ability to store, retrieve, and manage data systematically for real-world applications. C316 Action 3: Trains students to analyze data and create intelligent models that can predict and automate decisions. C321			
PO 9 : Individual and Team Work			
PO 9	1.8	1.29	Target is not achieved However, there is a scope for improvement in the following subjects: C224(Java Programming), C324 (Object Oriented Analysis & Design), C415(Urban Planning)
Action 1: Strengthens students' coding skills and equips them to develop robust, platform-independent applications. C224 Action 2: Develops students' ability to design efficient, modular, and reusable software using OOP principles. C324 Action 3: Expands students' understanding of designing sustainable, organized, and functional urban environments. C415			
PO 10 : Communication			
PO 10	1.8	1.44	Target is not achieved However, there is a scope for improvement in the following subjects : C325(Mean Stack Development), C417(Python Deep Learning)
Action 1: Empowers students to build full-stack web applications using MongoDB, Express, Angular, and Node.js. C325 Action 2: Enables students to create intelligent systems by applying neural networks and deep learning techniques in Python. C417			

PO 11 : Project Management and Finance			
PO 11	1.8	1.48	Target is not achieved However, there is a scope for improvement in the following subjects: C324(Object Oriented Analysis & Design), C122(Software Engineering), C222(Database Management System)
Action 1: Helps students design efficient, modular, and reusable software using object-oriented principles. C324 Action 2: Teaches students systematic approaches to plan, develop, and maintain high-quality software projects. C122 Action 3: Equips students with skills to organize, manage, and retrieve data effectively for real-world applications. C222			
PO 12 : Life-long Learning			
PO 12	1.8	1.65	Target is not achieve Due to the lower attainment in few courses such as: C316(DataWarehouse & Data Mining Lab), C119(Computer Programming) Observations: <input checked="" type="checkbox"/> Students are unable to understand essential requirements for an engineer, which is introduced in the new program. <input type="checkbox"/> Students need to improve various aspects to change the requirements of the industry and society for security. It can be improved by creating practical exposure on various aspects.
Action 1: Students participate in workshops, guest lectures and seminars through which continuous learning options are available. C316 Action 2: Students are instructed to develop projects using the latest trends in the era of computer science and engineering and motivated to publish their academic projects in reputed journals. C119			

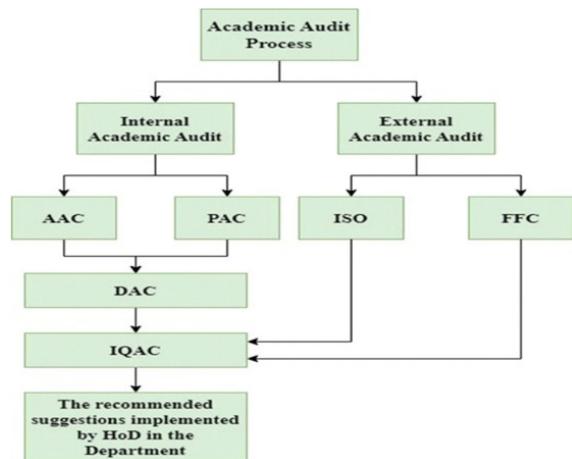
PSOs Attainment Levels and Actions for Improvement- (2023-24)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Develop and deploy software solutions using computing skills and modern tools to meet industry and societal needs.			
PSO 1	1.8	2.21	Target is achieved However, there is a scope for improvement in the following:C217(Operating System), C312(Design Analysis & Algorithm), C329 (SKL Mean Stack Technologies), C225(Managerial Economics and Financial Accounting) <input checked="" type="checkbox"/> Students need real time exposure for latest technologies with respect to web design and development. <input type="checkbox"/> Students do not involve actively in design and development of web Application during their course work.
Action 1: Builds understanding of how computers manage resources, processes, and memory efficiently. C217 Action 2: Enhances students' problem-solving skills by teaching efficient ways to design and analyze algorithms. C312 Action 3: Equips students to develop modern full-stack web applications using MongoDB, Express, Angular, and Node.js. C329 Action 4: Provides students with skills to make informed business decisions using economic and financial principles C225			
PSO 2 : Apply computational principles and advanced tools in collaboration with academia, industry and research to deliver efficient solutions.			
PSO 2	1.8	2.19	Target is achieved However, there is a scope for improvement in the following subjects : C314(Digital and Logistic Design), C212 (DataBase Management System), C315(Software Project Management) <input checked="" type="checkbox"/> Need to improve the updating the software Technology.
Action 1: Develops students' understanding of digital circuits and logical reasoning for designing hardware systems. C314 Action 2: Equips students with skills to efficiently store, retrieve, and manage data for real-world applications. C212 Action 3: Trains students to plan, execute, and monitor software projects effectively using managerial and technical skills. C315			
PSO 3 : Pursue emerging technologies and research with professionalism and ethical leadership, fostering lifelong learning and societal impact.			
PSO 3	1.8	1.68	Target is not achieved However, there is a scope for improvement in the following subjects : C414(Basic Engineering), C223(Formal Language & Automata Theory) There is a need for the students to know how the engineering solutions will help the Environment and society.
Action 1: Provides students with foundational knowledge of engineering principles and problem-solving across various disciplines. C414 Action 2: Strengthens students' understanding of computational theory and the mathematical models behind programming languages. C223			

7.2 Academic Audit and actions taken thereof during the period of Assessment (10)

Total Marks 10.00

The academic audit in the department is conducted by both internal and external audit experts. The Academic Audit Committee (AAC), Program Assessment Committee (PAC), and Department Advisory Committee (DAC) carry out the internal academic audit. As per the proposed schedule, audits are conducted by these committees (AAC, PAC, and DAC), with members nominated by the Principal and the HoD before the commencement of each semester. The process of Academic audit is shown in the figure 7.2.1 below.



The internal audits are conducted by the AAC in coordination with the PAC. The AAC is chaired by a Professor or Head from another department, with two senior faculty members from the CSE department. In DAC and PAC, Head of the Department acts as chairperson with other committee members supporting the audit process. The AAC, in collaboration with the PAC, monitors various academic parameters, prepares a report, and submits it to the DAC. The DAC reviews these reports, prepares an assessment report with significant findings and recommendations, and forwards it to the Internal Quality Assurance Cell (IQAC).

External audits are conducted by experts from outside organizations, such as ISO and the Fact Finding Committee (FFC) from JNTUK. These external audit reports are submitted to the Principal. The IQAC reviews both internal and external audit reports, prepares a report with recommended remedial measures, and forwards it to the department. The Head of the Department is responsible for implementing the actions recommended by the IQAC.

Internal audits are conducted twice a year, at the beginning of each semester, while External audits are conducted annually.

Key Objectives

To ensure that academic standards are being maintained.

To evaluate the effectiveness of curriculum delivery and student performance.

To identify strengths, weaknesses, and areas for improvement in academic processes. To promote continuous improvement in teaching, learning, and assessment methods.

To ensure alignment with Program Outcomes (POs), Program Specific Outcomes (PSOs), and Course Outcomes (COs).

Focus areas of the Academic Audit Process

The academic audit typically focuses on the following key areas:

Curriculum Review, POs, PSOs: Analyzing whether the curriculum aligns with industry standards, student needs, and academic goals, Course files, evaluating if COs are well-defined, measurable, and align with the Program Outcomes (POs) and PSOs.

Faculty information and their contribution: Assessing Student faculty ratio, professional development, research contributions, awards received, Events organized and certifications

Teaching-Learning process and evaluation: Assessing teaching methods, feedback on courses, faculty, and the overall academic environment to identify areas for improvement, result analysis, placements, higher studies and professional bodies

Research, consultancy and Extension: Assessing faculty research and publications, patents, MOUs with Industries.

Infrastructure and Learning Resources: Ensuring that laboratories, classrooms, libraries, and ICT tools are adequate and accessible.

Student information, Support and Progression: Assessing the support system for students in the form of internships, industrial visits, student centric and outreach activates,

The composition of various committees involved with their roles and responsibilities are shown in the below Table 7.2.1

Audit Committee	Roles & Responsibilities	Frequency
DAC: <ul style="list-style-type: none"> Head of the Department Senior Faculty Members Industry person Alumni 	<ul style="list-style-type: none"> Monitoring the achievements of Program Outcomes (POs), Program Specific Outcomes (PSO), Program Educational Objectives (PEOs). Evaluating program effectiveness and proposing necessary changes. For quality improvement, monitoring the faculty and students towards attending FDPs, Workshops, Seminars, Development activities and Research activities. Suggestions on Teaching pedagogy and OBE awareness. 	Once in a year

PAC: • Head of the Department • Attendance Coordinator • Feedback coordinator • Examination Coordinator • Faculty activities and R& D Coordinator • Project Coordinator • Student Mentoring Coordinator • Training and Placement Coordinator • IQAC Department Coordinator • Student activities Coordinator	<ul style="list-style-type: none"> • Adherence to academic calendar. • Course files verification. • Curriculum delivery process and Assessing Curriculum Gap identification. • Attainment of COs, POs& PSOs. • Collection and Analysis of feedback and various Surveys Corrective measures. • Providing guidelines to participate and organize FDPs, Conferences, Seminars, Workshops, Events in student chapters, Inter-institute events etc. • Review on Quality & Quantity of Research publications. • Verification of Lab manuals, Student lab records, Stock registers, Maintenance registers, Suggestion books, AMC, overall lab maintenance etc. • Laboratory work evaluation process. • Available and requirement of lab resources (Software, hardware, peripherals etc.), their working status and Utilization. • Assessing students projects (Mini & Major). • Review and Guidelines on Campus Recruitment training, On-campus and Off-campus placements, Measures for improvement of placements. 	Once in a semester
	<ul style="list-style-type: none"> • Verification- Quality of Mid exam question paper and scheme of evaluation as per COs followed by Blooms taxonomy. • Evaluating the results and measures for improvement • Process of identifying the advanced and slow learners and to give necessary suggestions. 	
	<ul style="list-style-type: none"> • Attendance registers, monthly attendance reports, Communication of attendance. • Periodic meetings with all Mentors for improvement. • Monitoring the process and Suggestions/ corrective measures for mentoring outcome. 	Once in a month

Table 7.2.1: Various assessment committees involved in Audit with their roles and responsibilities.

The following table shows the major findings and suggestions given by the audit committee and the Actions on audit committee reports for Assessment years CAYm2(2022-23) , CAYml(2023-24) and CAY(2024- 25) are shown in the below.

S.No	Academic Audit Committee	Committee members	Major findings/ Suggestions	Corrective actions

1.	Department Advisory Committee (DAC)	<p>Dr.K.Nageswara Rao <i>Head of the Department</i></p> <p>Mr.D.Koteswara Rao <i>Associate Professor</i></p> <p>I.Nageswara Rao <i>Associate Professor</i></p> <p>Mr.K.Subramanyam, Proprietor, Kumar Pumps, <i>Industry person</i></p> <p>Mr. Noor Basha Yasmidhasheehaan <i>Alumni</i></p>	<ul style="list-style-type: none">Advised faculty to publish one Scopus Indexed paper every semester.Faculty FDPs and certification courses are to be increased.Students participation in Inter-institute events to be encouragedStudents Should be encouraged to participate in online workshops to upskillStudents should be motivated towards higher studiesCurriculum gaps must be filled by conducting different activates in the recent technological trends	<ul style="list-style-type: none">Management is encouraging faculty members to publish papers in reputed journals to improve their number of publications for the subsequent academic years.Faculty are advised to take part in AICTE sponsored FDPs, STTPs organized by other premier institutes.Students are encouraged to participate in inter-institute level events.Faculty members are advised to motivate students to pursue higher education.Planned to conduct Workshops, Guest lectures on recent trends in technology in this semester.
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2	Program Assessment Committee (PAC)	<p>Dr.K.Nageswara Rao Head of the Department</p> <p>P.Ar vind Attendance Coordinator</p> <p>D.Thirupathamma Feedback coordinator</p> <p>I.Nageswara Rao Examination Coordinator</p> <p>Dr.Y.V.Raghava Rao R&D Coordinator</p> <p>Mr. D.Koteswara Rao Project Coordinator</p> <p>Y.Jessy Kumari Student Mentoring Coordinator</p> <p>Mr.V.K.Pratap T&P Coordinator</p> <p>Mr.J.Ramu IQAC Department Coordinator</p> <p>Ch.Bindu Madhavi Student activities Coordinator</p>	<ul style="list-style-type: none"> • Quality Improvement of question paper and scheme of valuation according to Blooms taxonomy • New online methods for teaching must be adapted • Faculty must focus on the creation of e-content • Additional experiments should be included beyond the syllabus • Interaction with students with less online attendance should be continuous. • Programs beyond the syllabus must be explained <ul style="list-style-type: none"> • Faculty members instructed to strictly adhere to Blooms Taxonomy when preparing questions for assignments and Mid examinations. • Faculty are advised to make use of PPTs while teaching online. • For core programming courses, extra lab hours and programs beyond the syllabus are explained.
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Table 7.2.2: Actions on audit committee reports for Assessment year CAYm2

S.No	Academic Audit Committee	Committee members	Major findings/ Suggestions	Corrective actions

1.	Department Advisory Committee (DAC)	Dr.K.Nageswara Rao <i>Head of the Department</i> Mr.D.Koteswara Rao <i>Associate Professor</i> I.Nageswara Rao <i>Associate Professor</i> Mr.K.Subramanyam, Proprietor, Kumar Pumps, <i>Industry person</i> Mr. Noor Basha Yasmidhashehaan <i>Alumni</i>	<ul style="list-style-type: none"> • Suggested to implement Dynamic classroom teaching methods • More number of events to be organized to fill the curriculum gap for attaining POs and PSOs • Suggested the faculty to create awareness on OBE to students. • Encouraging faculty and students to attend workshops, develop projects, and engage in research activities. • Some of the computers found to have some issues with keyboards and need to be serviced • FDP must be organized for the faculty to upskill them in the latest technology and trends <ul style="list-style-type: none"> • Teaching methods learned during the FDP attended by a few faculty members have been implemented in the classroom. • Guest lectures and Workshops are conducted to fill the curriculum gaps • Faculty are advised to create awareness on OBE among the students during some class hours • Faculty and students are encouraged to attend workshops and conferences that are conducted in other colleges.
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2	Program Assessment Committee (PAC) Dr.K.Nageswar Rao Head of the Department P.Arvind Attendance Coordinator D.Thirupathamma Feedback coordinator I.Nageswara Rao Examination Coordinator Dr.Y.V.Raghava Rao R&D Coordinator Mr. D.Koteswara Rao Project Coordinator Y.Jessy Kumari Student Mentoring Coordinator Mr.V.K.Pratap T&P Coordinator Mr.J.Ramu IQAC Department Coordinator Ch.Bindu Madhavi Student activities Coordinator	<ul style="list-style-type: none"> • Remedial classes should be conducted for Students with backlogs. • Faculty need to Counsel the students and their parents to make the student Attend the classes regularly. • Some students have backlogs • Low student attendance has been identified in some classes. • Identified less feedback for few courses • Some of Software in the labs must be updated • Lack of participation in CRT training classes More number of projects should be on the latest technologies like IoT etc. • HOD counsels the faculty those who got less feedback by identifying their drawbacks while Teaching and conducting orientation classes as action taken there of by Principal. • Labs in charges are informed to update the software. • Faculty are advised to motivate the students to know the importance of training and placement classes.
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Table 7.2.3: Actions on audit committee reports for Assessment year CAYml (2023-24)

S.No	Academic Audit Committee	Committee members	Major findings/ Suggestions	Corrective actions
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Department Advisory Committee (DAC)	Dr.K.Nageswara Rao <i>Head of the Department</i>	<ul style="list-style-type: none">Advised faculty to publish one Scopus Indexed paper for every Semester.	<ul style="list-style-type: none">Management is encouraging faculty members to publish papers in reputed journals. Improving the number of publications for the subsequent academic years.
	Mr.D.Koteswara Rao <i>Associate Professor</i>	<ul style="list-style-type: none">Feedback must be maintained for remedial classes as well	<ul style="list-style-type: none">Feedback from the students who attended remedial classes are considered.
	I.Nageswara Rao <i>Associate Professor</i>	<ul style="list-style-type: none">Faculty FDPs and certification courses are to be increased.	<ul style="list-style-type: none">Faculty are advised to attend FDPs in reputed Institutes .
	Mr.K.Subramanyam, Proprietor, Kumar Pumps, <i>Industry person</i>	<ul style="list-style-type: none">Students participating in Inter- institute events to be encouraged.	<ul style="list-style-type: none">certification
	Mr. Noor Basha Yasmidhasheehaan <i>Alumni</i>	<ul style="list-style-type: none">Faculty members are advised to take professional body memberships.	<ul style="list-style-type: none">Faculty and students are advised to take Professional body memberships.

2.	Program Assessment Committee (PAC)	Dr.K.Nageswara Rao Head of the Department		
		P.Ar vind Attendance Coordinator		
		D.Thirupathamma Feedback coordinator	<ul style="list-style-type: none"> • Advised to conduct National Level technical events 	
		I.Nageswara Rao Examination Coordinator	<ul style="list-style-type: none"> • Delay in producing the course files 	
		Dr.Y.V.Raghava Rao R&D Coordinator	<ul style="list-style-type: none"> • Innovative-Teaching learning methods should be adopted in terms of OBE 	
		Mr.D.Koteswara Rao Project Coordinator	<ul style="list-style-type: none"> • Quality Improvement of question paper and scheme of valuation according to Blooms taxonomy 	
		Y.Jessy Kumari Student Mentoring Coordinator	<ul style="list-style-type: none"> • Lab manuals must be updated • License and open-source software should be more in the lab. 	
		Mr.V.K.Pratap T&P Coordinator	<ul style="list-style-type: none"> • Additional experiments should be included beyond the syllabus • Frequent monitoring on the students with less attendance should be done 	
		Mr.J.Ramu IQAC Department Coordinator		
		Ch.Bindu Madhavi Student activities Coordinator		

Table 7.2.4: Actions on audit committee reports for Assessment a year CAY(2024-25)

Table 7.2.5 highlights the improvements made over three different assessment years, based on the suggestions of the audit committee and the corresponding actions taken

Year	Improvements
2024-25	<ul style="list-style-type: none"> • Quality and Quantity of paper publications in reputed journals are increased. • Students placements and packages were increased • Campus recruitment training and campus-specific training is provided for campus drives. • Attending of FDPs, workshops, and seminars are increased • Innovative Teaching-Learning methodologies are incorporated in the curriculum and increased in terms of OBE. • Students activities are enhanced to increase their technical skills. • Workshops, Guest Lectures are organized to fill the curriculum gaps

2023-24	<ul style="list-style-type: none"> Quality of question paper and standards where observed and all the faculty are following Bloom's taxonomy. Peer-to-peer and Collaborative learning activities are incorporated. One Week FDP on Advancements in Machine Learning is organized to upskill the faculty. Guest Lectures are organized to fill the curriculum gaps Remedial classes are provided to slow learners. Student participation in coding challenges is improved
2022-23	<ul style="list-style-type: none"> Student placements are increased Student results are progressively increased for all semesters. Latest courses like Hadoop and Machine Learning are explained with more number of additional programs and extra practical sessions provided. Fast track material is provided for slow learners. Faculty participation in AICTE sponsored FDPs, Coursera certifications are improved

Table 7.2.5: Audit committee actions- Continuous improvement

7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

Total Marks 10.00

Institute Marks : 10.00

Batch	2024-2025 (CAY)	2023-2024 (CAYm1)	2022 (CA)
Total No. of Final Year Students (N)	111	109	1
No. of students placed in companies or Government Sector (X)	80	77	-
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (Y)	12	8	6
No. of students turned entrepreneur in engineering/technology (Z)	0	0	0
Placement index : (X+Y+Z)	92	85	7
Placement index : (X+Y+Z) / N	0.828	0.779	0.6
Average placement in percentage $= (P1+P2+P3)/3*100$		76.1	

7.4 Improvement in the quality of students admitted to the program (10)

Total Marks 10.00

Institute Marks : 10.00

Item		2024-25	2023-24	2022-23
National Level Entrance Examination	No of students admitted	0	0	0
	Opening Score/Rank	0	0	0
	Closing Score/Rank	0	0	0
State/ University/ Level Entrance Examination/ Others Andhra Pradesh Engineerir	No of students admitted	310	164	144
	Opening Score/Rank	42593	27945	28936
	Closing Score/Rank	139034	147795	173107
Name of the Entrance Examination for Lateral Entry or lateral entry details Andhra Pradesh Engineerir	No of students admitted	13	5	10
	Opening Score/Rank	25	2554	58
	Closing Score/Rank	5940	7158	6303
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		86	85	84

8 FIRST YEAR ACADEMICS (50)

Total Marks 46.02

8.1 First Year Student-Faculty Ratio (FYSFR) (5)

Total Marks 5.00

Institute Marks : 5.00

Please provide First year faculty information considering load for the particular program

Name of the faculty member	PAN No.	Qualification	Date of Receiving Highest Degree	Area of Specialization	Designation	Date of joining	Teaching load (%)			Currently Associated (Yes / No)	Nature Of Association (Regular / Contract)	Date Of leaving(In case Currently Associated is 'No')
							CAY	CAYm1	CAYm2			
Dr.K.Srinivasar	AUOPK1437F	M.SC.(Mathematics) and PhD	30/03/2017	MATHEMATICS	Associate Professor	15/12/2019	100	100	100	Yes	Regular	
Dr.G.Sreedevik	ATOPK4061A	M.SC.(Mathematics) and PhD	15/03/2013	APPLIED MATHEMATICS	Associate Professor	15/11/2021	100	100	100	Yes	Regular	
Dr.G.Krishnaku	ARJPG3461H	M.Sc. (Physics) and Ph.D.	09/03/2013	PHYSICS	Associate Professor	06/08/2008	100	100	100	Yes	Regular	
G.SURESH	AMAPG0946M	M.Sc	22/01/2005	MATHEMATICS	Assistant Professor	27/11/2021	100	100	100	Yes	Regular	
D.VINODA	APGPD7086N	M.Phil	27/08/2014	MATHEMATICS	Assistant Professor	04/07/2019	100	100	100	Yes	Regular	
CH.DHANALAI	BSAPC8068F	M.Sc	11/04/2022	MATHEMATICS	Assistant Professor	01/06/2022	100	100	100	Yes	Regular	
T.P.KANAKADI	BXHPA9165P	M.Sc	17/11/2021	MATHEMATICS	Assistant Professor	01/05/2022	100	100	100	No	Regular	17/09/2025
Y.SUPRAJA	AHXPY3098A	M.Sc	28/04/2011	STATISTICS	Assistant Professor	01/07/2023	100	100	0	Yes	Regular	
B.NAGAMANI	CHVPB8471N	M.Sc	07/10/2016	MATHEMATICS	Assistant Professor	30/06/2023	100	100	0	Yes	Regular	
M.APPARAO	AXTPM5753C	M.Sc	17/04/2006	MATHEMATICS	Assistant Professor	01/06/2024	100	0	0	Yes	Regular	
M.KALYANI	GHZPM4947L	M.Sc	17/07/2015	MATHEMATICS	Assistant Professor	28/10/2022	100	100	0	Yes	Regular	
D.VANI	BNOPD4835L	M.Sc	06/10/2000	MATHEMATICS	Assistant Professor	01/07/2024	100	0	0	Yes	Regular	
V.SANDYARA	CEUPV6510E	M.Sc	18/10/2016	MATHEMATICS	Assistant Professor	04/05/2024	100	0	0	Yes	Regular	
J.SUNILGOWI	BIZPJ4761M	M.Sc	10/08/2021	MATHEMATICS	Assistant Professor	01/04/2022	0	0	100	No	Regular	30/05/2023
M.SRINIVASAI	APUPM9900J	M.Sc	29/08/2007	PHYSICS	Assistant Professor	16/08/2011	100	100	100	Yes	Regular	
G.SRINIVASAI	DXTPS1696R	M.Sc	10/09/2005	PHYSICS	Assistant Professor	01/07/2015	100	100	100	Yes	Regular	
G.NAGALAKSI	EAMPG0472E	M.Sc	17/04/2017	PHYSICS	Assistant Professor	10/07/2023	100	100	0	Yes	Regular	
P.BIKSHALU	DWNPP8224F	M.Sc	01/04/2022	CHEMISTRY	Assistant Professor	26/05/2022	100	100	100	Yes	Regular	
V.NAGARANI	ADJP08651M	M.Sc	20/08/2021	CHEMISTRY	Assistant Professor	26/05/2022	0	100	100	No	Regular	03/08/2024
M.RADHADEV	ITFPK0012J	M.Sc	11/04/2011	CHEMISTRY	Assistant Professor	26/06/2023	100	100	0	Yes	Regular	
SK.PHARJAN/	IDZPS7287B	M.Sc	02/06/2017	CHEMISTRY	Assistant Professor	25/08/2021	100	100	100	Yes	Regular	
G.MAHESHBA	HJRPB2637C	M.Sc	13/11/2012	CHEMISTRY	Assistant Professor	21/03/2022	100	100	100	No	Regular	28/05/2025
Y.RAJYALAKS	CAAPR6697C	M.Sc	18/04/2011	MATHEMATICS	Assistant Professor	04/06/2022	100	100	100	Yes	Regular	
J.BRAMARAM	AOZPJ1480L	M.Sc	31/07/2008	PHYSICS	Assistant Professor	08/11/2021	100	100	100	Yes	Regular	
CH.ANUSHA	AKKPC8107C	M.Sc	19/01/2011	CHEMISTRY	Assistant Professor	01/04/2015	100	100	100	Yes	Regular	

Dr.P.RAVICHAI	BEQPP2327L	M.A and Ph.D	30/11/2022	ENGLISH	Assistant Professor	05/07/2023	0 100 0	No	Regular	06/06/2024
I.SURESHBAB	ADJPI0582P	M.Sc	02/05/2005	CHEMISTRY	Assistant Professor	24/05/2017	100 100 100	Yes	Regular	
G.RAMAKOTE	ASEPG3588M	MA	15/07/2009	ENGLISH	Assistant Professor	03/06/2013	0 0 100	No	Regular	15/06/2023
V.GOVARDHAI	APVPG7097P	MA	31/08/2007	ENGLISH	Assistant Professor	25/07/2023	100 100 0	Yes	Regular	
D.SUJATHA	AODPD3563N	MA	09/05/2011	ENGLISH	Assistant Professor	26/09/2022	100 100 0	No	Regular	28/05/2025
V.NAVEEN CH	AOGPV5742J	MA	04/10/2007	ENGLISH	Assistant Professor	27/01/2021	100 100 100	Yes	Regular	
K.SRI NAGAV/	CSVPV0592C	M.Sc	06/04/2018	MATHEMATICS	Assistant Professor	01/06/2024	100 0 0	Yes	Regular	
Y.SRINIVASAR	AEOPY7091M	MA	15/04/2013	ENGLISH	Assistant Professor	01/04/2022	100 100 100	Yes	Regular	
I.VIDYAREKH/	ABWPI8311B	MA	11/07/2009	ENGLISH	Assistant Professor	27/06/2019	100 100 100	Yes	Regular	
M.JOYCE	AOAPP5359P	MA	18/08/1998	ENGLISH	Assistant Professor	16/07/2009	100 100 100	Yes	Regular	
D.RAMESH	FKPPD1096H	MA	11/05/2020	ENGLISH	Assistant Professor	01/04/2022	0 0 100	No	Regular	23/06/2023
S.KAVITHA	FEYPS5774E	M.Sc	07/10/2005	CHEMISTRY	Assistant Professor	15/07/2022	100 100 100	Yes	Regular	
T.SIREESHA	AMTPPT1158M	M.Tech	14/03/2017	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	11/12/2019	100 100 100	Yes	Regular	
J.NANCYNAMI	ALHPJ5030D	M.Tech	26/07/2012	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	11/12/2019	100 100 100	No	Regular	16/06/2025
T.NAGABHAR/	ARHPT9458G	M.Tech	17/05/2021	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	13/06/2022	100 100 100	No	Regular	04/06/2025
G.KRISHNARE	BYZPG7403B	M.Tech	18/06/2013	ELECTRICAL AND ELECTRONICS ENGINEERING	Assistant Professor	22/06/2015	0 100 100	No	Regular	17/06/2024
TONY RHODE	EPLPK8768D	M.Tech	19/12/2016	MECHANICAL	Assistant Professor	21/01/2019	100 100 100	Yes	Regular	
Dr.U.GAYATHF	ACFPU2313R	M.Tech and Ph.D.	31/12/2022	MECHANICAL	Associate Professor	19/10/2019	100 100 100	Yes	Regular	
Dr.SK.MUNTA.	EFPPS9216L	M.Sc. (Physics) and Ph.D.	18/02/2020	PHYSICS	Assistant Professor	01/06/2022	100 100 100	Yes	Regular	
SUGUNPAUL I	DXSPK8574B	M.Tech	13/01/2020	MECHANICAL	Assistant Professor	09/11/2020	100 100 100	No	Regular	02/06/2025
B V R SAIKRIS	HBCPS9699F	M.Tech	17/08/2019	MECHANICAL	Assistant Professor	17/10/2019	100 100 100	Yes	Regular	
V SATISHBAB	AYHPB6786F	M.Tech	10/07/2017	COMPUTER SCIENCE	Assistant Professor	01/06/2024	100 0 0	Yes	Regular	
D.NAGABHUS	AFRPN9721R	M.Tech	28/01/2019	COMPUTER SCIENCE	Assistant Professor	01/06/2024	100 0 0	Yes	Regular	
JAYMUNNISA	GBKPS8605A	M.Sc	21/06/2009	COMPUTER SCIENCE	Assistant Professor	01/04/2022	100 100 100	Yes	Regular	
A.MEDASRIMF	CHBPA7366R	M.Tech	30/10/2018	CIVIL	Assistant Professor	11/04/2022	100 100 100	Yes	Regular	
A V RAMANA	BFTPS9200P	M.Tech	05/10/1987	CIVIL	Assistant Professor	16/11/2020	100 100 100	Yes	Regular	
A.SAKEETH	BHOPA8812Q	M.Tech	13/08/2018	CIVIL	Assistant Professor	16/11/2020	100 100 100	Yes	Regular	

M.SUBRAMAN	DDRPM3350J	MCA	11/08/2021	COMPUTER SCIENCE	Assistant Professor	05/06/2024	100 0 0	Yes	Regular	
A.ADIYYA	AOVPA6437N	MCA	13/03/2015	COMPUTERSCIENCE	Assistant Professor	05/06/2024	100 0 0	Yes	Regular	
M.CHAITANYA	BSLPM7357N	MA	08/09/2011	ENGLISH	Assistant Professor	01/06/2019	0 100 100	No	Regular	01/06/2024
DR.P.RAJASEI	FJFPR4842Q	M.SC.(Mathematics) and PhD	22/11/2022	MATHEMATICS	Associate Professor	26/06/2024	100 0 0	Yes	Regular	
S.P.RANGANA	DAKPS1029A	M.Sc	29/11/2013	PHYSICS	Assistant Professor	04/05/2022	0 0 100	No	Regular	01/06/2023
T.RATNAKUM/	ASJPT8999E	M.Tech	11/06/2015	COMPUTERSCIENCE	Assistant Professor	27/11/2019	100 100 100	Yes	Regular	
G.ANJANEYUI	AWQPG6103N	M.Tech	15/03/2017	COMPUTER SCIENCE	Assistant Professor	08/06/2022	100 100 100	Yes	Regular	
A.TEJASWI	BZIPT5979H	M.Tech	17/10/2019	COMPUTER SCIENCE	Assistant Professor	24/06/2022	100 100 100	Yes	Regular	
T.CHAKRAVAF	ATAPC2949D	M.Tech	27/05/2014	COMPUTERSCIENCE	Assistant Professor	05/06/2017	100 100 100	Yes	Regular	
K.SRINIVASAF	EAMPK1222C	M.Sc	12/10/2007	PHYSICS	Assistant Professor	12/07/2024	100 0 0	Yes	Regular	
N.SARATH CH	AMGPN3421Q	MCA	29/09/2009	COMPUTERSCIENCE	Assistant Professor	27/06/2022	100 100 100	Yes	Regular	
K.SRILAKSHM	CEQPK5883R	M.Sc	30/04/2011	CHEMISTRY	Assistant Professor	22/07/2023	100 100 0	Yes	Regular	
SK.MADEENA	CFJPS1283M	M.Sc	10/05/2010	CHEMISTRY	Assistant Professor	21/06/2022	100 100 100	Yes	Regular	
T.HARISH	AYOPT2660H	M.Tech	27/07/2023	MECHANICAL	Assistant Professor	31/07/2023	100 100 0	Yes	Regular	
K.KARUNA KU	GDGPK4349F	M.P.Ed	20/06/2024	PD	Assistant Professor	01/06/2022	100 100 100	Yes	Regular	
K.SAMBAIAH	EAFPK2291N	M.Tech	17/04/2018	MECHANICAL	Assistant Professor	31/07/2024	100 0 0	Yes	Regular	
DR.G.RAMAS/	AUJPG7945D	Ph.D	05/09/2015	LIBRARIAN	Associate Professor	15/06/2008	100 100 100	Yes	Regular	
Dr.M.PANDU	CEBPM7354E	Ph.D	18/03/2016	LIBRARIAN	Associate Professor	20/07/2022	0 100 100	No	Regular	02/07/2024
CH.VISVANATI	BRVPC1435L	M.P.Ed	07/02/2022	PD	Assistant Professor	01/04/2022	0 100 100	No	Regular	01/06/2024

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)
2022-23(CAYm2)	660	50	13	5
2023-24(CAYm1)	756	56	14	5
2024-25(CAY)	1050	61	17	5
Average	822	55	14	5

8.2 Qualification of Faculty Teaching First Year Common Courses (5)

Total Marks 4.33

Institute Marks : 4.33

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]
2022-23	6	45	33	5.00
2023-24	8	50	37	5.00
2024-25	7	55	52	3.00

Average Assessment: 4.33

8.3 First Year Academic Performance (10)

Total Marks 6.69

Institute Marks : 6.69

Academic Performance	2024-25	2023-24	2022-23
Mean of CGPA or mean percentage of all successful students(X)	7.20	6.69	6.55
Total Number of successful students(Y)	150.00	136.00	120.00
Total Number of students appeared in the examination(Z)	150.00	144.00	120.00
API [X*(Y/Z)]	7.20	6.32	6.55

Average API[(AP1+AP2+AP3)/3] : 6.69

Assessment [1.5 * Average API] : 6.69

8.4 Attainment of Course Outcomes of first year courses (10)

Total Marks 10.00

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)

Institute Marks : 5.00

A. List of Assessment Processes

(1)

- v. Course outcomes are formulated for each subject by respective subject coordinator.
- v. Attainment of each course outcome is done with help of marks from the following assessments:
 - Performance of the students in the CIE examinations.
 - Performance of the students in the University examinations.

Internal Tests/Exams & Assignment

- v. Subject coordinator is responsible for setting quality question paper as per the guidelines of exam section.
- v. Subject coordinator conducts 2 mid-exams in a given semester and every 2month mid exam will be conducted.
- v. Subject coordinator follows guidelines, which are set by Department to evaluate the answer sheets.
- v. Marks are allocated based on the assignments, tests conducted in each subject (sum of highest marks will be taken from 80% and lowest marks will be taken 20 %)

Assessment tool	Maximum marks
Assignment	5
Descriptive exam	25
End Semester exam	70

Laboratory Exam Evaluation:

- v. Laboratory course coordinator uses rubrics, which are set by the Department to access students towards evaluation of laboratory programs.
- v. The laboratory course coordinator will conduct two tests internal and external.

Lab Course Evaluation:

The distribution of marks for Lab courses is as given in table below.

Table. Lab course evaluation

Assessment tool	Maximum marks
Continuous evaluation	15
Internal Lab exam	15
End Semester lab exam	70

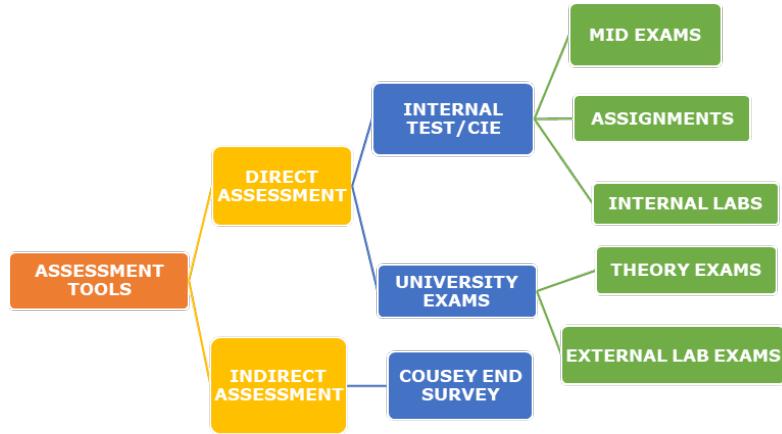
Indirect Assessment process

The student feedback questionnaire on the course outcomes is circulated to students at the end of the course and the feedback is assessed. Feedback results from students, are consolidated and the final CO attainment values are calculated through 3-point scale (High, Medium, Low)

B. The Relevance of Assessment Tools Used

(4)

- v. To calculate CO attainment value, following tools are used as follows.
 - Direct assessment tools
 - Internal tests/CIE
 - Mid-exam
 - Assignment
 - Labs.
 - Sem Exams/External Exams
 - Theory exams
 - Labs.
 - Indirect assessment tools
 - Course end survey.



Course Attainment Calculations

- v. Weightage given to direct attainment = 80%
- v. Weightage given to Indirect attainment = 20%
- v. Total CO Attainment = $0.8 * \text{Direct attainment value} + 0.2 * \text{indirect attainment value}$ [respective course]



Table 8.4.1.1. List of assessment tools used for measure CO.

SN	Name of assessment tool	Weightage	Frequency of data collection
1	Direct assessment tools	80%	End of semester
			End of semester
2	Indirect assessment tools	20%	End of semester

8.4.2 Record the attainment of Course Outcomes of all first year courses (5)

Institute Marks : 5.00

Table 8.4.2.1. Target & attainment levels of COs of 1st year courses-year 2023-2024

COURSE CODE	CO1 AL	CO2 AL	CO3 AL	CO4 AL	CO5 AL	CO6 AL
C111	2.82	2.74	2.92	2.87	2.84	
C112	2.93	2.93	2.79	2.76	2.76	
C113	2.30	2.21	2.27	2.21	2.21	
C114	2.79	2.78	2.75	2.73	2.72	2.13
C115	2.29	2.14	2.33	2.32	2.32	
C116	2.91	2.92	2.89	2.90	2.90	
C117	2.89	2.91	2.92	2.90	2.92	
C118	2.95	2.96	2.98	2.96		
C119	2.96	2.95	2.94	2.96		
C121	2.30.	2.26	2.17	2.19	2.12	
C122	2.31	2.25	2.30	2.30	2.24	
C123	2.29	2.28	2.24	2.19	2.14	2.12
C124	2.70	2.64	2.88	2.88	2.81	
C125	2.88	2.91	2.90	2.89	2.89	
C126	2.87	2.73	2.89	2.90	2.89	
C127	2.84	2.86	2.86	2.86	2.85	
C128	2.89	2.90	2.90	2.90	2.89	
C129	2.92	2.92	2.92	2.92	2.91	

8.5 Attainment of Program Outcomes from first year courses (20)

Total Marks 20.00

8.5.1 Indicate results of evaluation of each relevant PO and/ or PSO, if applicable (15)

Institute Marks : 15.00

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	1.89	2.84	PO11	1.89
C112	2.64	2.12	2.20	2.20	2.36	PO6	0.94	PO8	PO9	PO10	PO11	0.94
C113	2.24	1.49	1.49	1.49	1.49	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C114	2.50	1.55	1.77	2.65	2.21	2.06	1.77	PO8	PO9	0.88	0.88	1.03
C115	1.22	1.98	1.52	2.28	1.82	0.76	0.76	0.91	0.91	0.76	2.28	0.76
C116	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	1.55	2.90	PO11	1.93
C117	2.91	1.94	0.97	1.94	PO5	1.94	PO7	PO8	1.36	PO10	0.97	PO12
C118	2.96	1.97	0.99	0.99	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.97
C119	1.72	2.70	1.97	2.95	2.21	0.98	0.98	1.23	0.98	0.98	2.95	0.98
C121	2.21	0.74	1.47	1.47	PO5	0.74	PO7	PO8	PO9	PO10	PO11	PO12
C122	2.28	1.82	1.52	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	0.76
C123	2.21	2.03	1.77	1.47	2.21	1.84	1.47	1.47	1.47	1.84	1.47	2.21
C124	2.78	2.04	1.67	1.30	1.67	0.93	0.93	1.85	1.85	1.11	0.93	2.04
C125	2.31	2.41	1.93	1.93	2.41	1.69	PO7	1.93	2.41	1.45	1.93	PO12
C126	2.86	2.67	2.10	2.10	1.72	0.95	0.95	0.95	0.95	0.95	0.95	1.91
C127	1.90	0.95	1.90	2.85	PO5	PO6	PO7	PO8	0.95	PO10	PO11	0.95
C128	2.71	2.42	2.26	1.93	2.51	2.42	1.93	PO8	1.93	2.18	1.93	2.90
C129	2.73	2.92	2.34	2.14	2.14	0.97	0.97	0.97	0.97	2.92	2.92	1.75

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment	2.39	1.98	1.74	1.98	2.07	1.39	1.19	1.33	1.44	1.71	1.72	1.57
CO Attainment	2.39	1.98	1.74	1.98	2.07	1.39	1.19	1.33	1.44	1.71	1.72	1.57

PSOs Attainment:

Course	PSO1	PSO2	PSO3
C115	1.82	1.98	1.52
C119	2.46	2.70	1.97
C124	2.22	2.59	1.48
C125	2.12	2.12	1.35
C126	2.86	2.48	1.33
C129	2.92	2.53	1.36
PSO Attainment	2.40	2.40	1.50

PSO Attainment Level

Course	PSO1	PSO2	PSO3
Direct Attainment	2.40	2.40	1.50

8.5.2 Actions taken based on the results of evaluation of relevant POs (5)

Institute Marks : 5.00

POs Attainment Levels and Actions for Improvement- (2023-24)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	1.80	2.39	Target attained. However, there is a scope for improvement in the following subjects-C115(C-programming)
Action 1: Daily practice of coding problems. (C115) Action-2: Weekly coding tests in lab. (C115)			
PO 2 : Problem Analysis			
PO 2	1.80	1.98	Target attained. However, there is a scope for improvement in the following subjects-C113(LAC) C121(Engineering Physics)
Action 1: Conduct slip tests on derivatives, integrals, and matrices. (C113) Action 2: Providing the fundamentals of the subjects to make easy to understand(C121)			
PO 3 : Design/development of Solutions			
PO 3	1.80	1.74	Target not attained. Due to the lower attainment in few courses such as -C117(Chemistry lab) C121(Engineering Physics)
Action 1: To improve PO attainment value, Pre-lab questions and post-lab viva. (C117) Action 2: students encouraged to design and develop their own solutions to different problems given as assignments and compare them with existing solutions. (C121)			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.80	1.98	Target attained. However, there is a scope for improvement in the following subjects- C118(Engineering Work shop lab) C124(Engineering Graphics)
Action-1: Weekly evaluation of workpiece completion. (C118) Action-2: Encourage students to practice 2Dand 3D drawing using CAD tools for better visualization skills (C124)			
PO 5 : Modern Tool Usage			
PO 5	1.80	2.07	Target attained. However, there is a scope for improvement in the following subjects- C113(LAC) C124(Engineering Graphics)
Action 1: Plan regular problem-solving sessions. (C113) Action 2: Faculty members encouraged students to make of modern tools in solving problems, Weekly drawing assignments. (C124)			
PO 6 : The Engineer and Society			
PO 6	1.80	1.39	Target not attained. Due to the lower attainment in few courses such as -C115(C-Programming) C121(Engineering physics) Observation: social service activities were conducted as part of NSS.
Action 1: In order to improve attainment value, Daily practice of coding problems. (C115) Action 2: To improve the attainment value, to improve PO attainment value, Lab demonstrations linked with syllabus. (C121)			
PO 7 : Environment and Sustainability			
PO 7	1.80	1.19	Target not attained. Due to the lower attainment in few courses such as - C115(C-Programming) C124(Engineering Graphics) Observation: social service activities like tree plantation program conducted as a part of NSS activities.
Action 1: In order to improve attainment value, in order to improve attainment value, more lab sessions will be given for program practice. (C115) Action 2: Providing the fundamentals of the subjects to make easy to understand (C124)			
PO 8 : Ethics			
PO 8	1.80	1.33	Target not attained. Due to the lower attainment in few courses such as - C115(C-Programming) C126 (Data structures) Observation: faculty member took special classes on professional ethics
Action 1: To improve the attainment value, to improve attainment value, students given assignments that involve self-study in the relevant subjects. (C115) Action 2: Revision through flowcharts and diagrams. (C126)			
PO 9 : Individual and Team Work			
PO 9	1.80	1.44	Target not attained. Due to the lower attainment in few courses such as - C115(C-Programming) C126 (Data structures)
Action 1: In order to improve attainment value, Providing basic concepts and fundamentals in the class. (C115) Action 2: Weekly coding labs on stacks, queues, linked lists. (C126)			
PO 10 : Communication			
PO 10	1.80	1.71	Target not attained. Due to the lower attainment in few courses such as - C115(C-Programming) C124(Engineering Graphics) Observation: Through placement cell, soft skills training imparted to students to enhance various aspects of communication skills.
Action 1: Daily practice of coding problems. (C115) Action 2: To improve attainment value, Slip test on projections and isometric drawings. (C124)			
PO 11 : Project Management and Finance			
PO 11	1.80	1.72	Target not attained. Due to the lower attainment in few courses such as -C114(BCME) C124(Engineering Graphics) Observation: students encouraged to participate in various competitions, where they can learn to submit their working models for evaluation in time.
Action 1: In order to improve attainment value, Classes to be conducted to revise the basics of civil and mechanical engineering. (c114) Action 2: Students encouraged to participate in various competitions, where they can learn to submit their working models for evaluation in time(C124)			
PO 12 : Life-long Learning			
PO 12	1.80	1.57	Target not attained. Due to the lower attainment in few courses such as -C115(C-programming) C122(DEVC) Observation: students given assignments that involve self-study in the relevant subjects.
Action 1: To improve attainment value, in order to improve attainment value, Daily practice of coding problems. (C115) Action 2: Tutorial sessions on simplification techniques. (C122)			

PSOs Attainment Levels and Actions for Improvement- (2023-24)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Develop and deploy software solutions using computing skills and modern tools to meet industry and societal needs.			
PSO 1	1.80	2.40	<input checked="" type="checkbox"/> Target attained.
<input type="checkbox"/> Action 1: Encourage students to participate in coding competitions.			
PSO 2 : Apply computational principles and advanced tools in collaboration with academia, industry and research to deliver efficient solutions.			
PSO 2	1.80	2.40	<input checked="" type="checkbox"/> Target attained.
<input type="checkbox"/> Action 1: Organize training programs on emerging technologies.			
PSO 3 : Pursue emerging technologies and research with professionalism and ethical leadership, fostering lifelong learning and societal impact.			
PSO 3	1.80	1.50	<input checked="" type="checkbox"/> Target not attained.
<input type="checkbox"/> Action 1: To improve attainment value, more lab classes conducted to improve practice knowledge.			

9 STUDENT SUPPORT SYSTEMS (50)

Total Marks 50.00

9.1 Mentoring system to help at individual level (5)

Total Marks 5.00

9.Mentoring system to help at individual level (5)

1. Student Mentoring System

NRIIT Institute of Technology Strongly believes that Student Mentoring system plays a vital role in empowering the student's at individual level. Unless a student is ready to learn, whatever may be the intelligence quotient of the student/efficiency of the teacher; learning cannot take place accurately. In this context, NRIIT has an efficient student mentoring system of allotting 30 students to every faculty to address not only the academic/curricular issues but also other issues like economic issues, teenage problems, emotional problems and psychological issues. Number of faculty mentors at NRIIT is 108 for the programs CSE (22), ECE (26), IT (12), BS&H (38) for the A.Y 2023-24.

1. Objectives of the Student Mentoring System

The objectives of the Mentoring System at NRIIT are:

- A. To monitor and enhance the student's regularity & discipline
- B. To monitor and enhance the student's academic/curricular performance.
- C. To counsel the students and provide confidence to improve their quality of life by addressing their issues such as
 - Economic Issues
 - Teenage Issues
 - Health Issues
 - Emotional Issues
 - Psychological Issues
- D. To engage the parents in the continual improvement of their ward's performance.
- E. To encourage student's participation in co-curricular & extra-curricular activities with a balanced academic performance.
- F. To guide the students towards campus recruitment, higher education, research & entrepreneurship.

G. Process of mentoring at NRIIT:

Process of mentoring students at NRIIT was developed to achieve the **objectives** of the Student Mentoring system in the following attributes:

1. Regularity & Discipline

- Once in a week, every faculty/mentor will informally meet their allotted student's/mentee's for counselling and making a note of their status in the respective Student Mentoring Book.
- During the counselling, if the student was observed to be performing good they will be appreciated. If the student was observed to be non-attentive/non- performer/irregular, the exact reasons/issues will be identified by the mentor and will be given with enough counselling/support in resolving/addressing the concerned issues.

2. Academic/Curricular Performance

- In the first stage at the beginning of every semester, the faculty/mentor will address the allotted students regarding the details of academics in the semester and evaluation procedure in line with the respective PO's, PEO's, Mission, Vision at program and institute level.
- The detailed performance evaluation/results for every assessment will be noted down in the respective student mentoring book.
- If the student/mentee performance is good then she will be recommended for Merit Scholarship else she will be guided and tutored to improve her performance.

3. Other Issues to increase confidence of Student/Mentee to improve their quality of life

- Economic Issues: During the counselling process, if any student/mentee was observed to be suffering financial crisis impacting their performance will be recommended for various opportunities such as MEAN Scholarships.
- Teenage Issues: During the counselling process, if any student/mentee was observed to be having issues like adolescence, including social media, body image, substance use and sleep will be counselled accordingly in resolving issues at mentor level and even if the issues still persists the student/mentee will be directed to grievance and redressal cell for further counselling through Program Coordinator.

Health Issues: During the counselling process, if any student/mentee was observed to be having any health problem disturbing their performance will be inspected with Health Club with concerned parent consent. Where if the issue deserves a doctor's consultation, the primary consultation will be borne by the institution and further recommendations will be handed over to the parent.

Emotional Issues: During the counselling process, if any student/mentee was observed to be having emotional issues chronic discipline problems, is truant often, temper tantrums, lack of empathy/compassion, bullying others, causing damage to others properties, having conflicts with parents and authority figures will be counselled accordingly. Even if the issue continues to persist, student/mentee will be taken for further counselling with Program Coordinator.

Psychological Issues: During the counselling process, if any student/mentee was observed to be suffering from psychological issues like depression, stress, anxiety, eating disorders, self injury, bipolar disorder and psychotic will be counselled for the resolution. Even if the issues continue to persist the student/mentee will be recommended to a psychologist consultation through program coordinator and parents.

4. Engaging Parents for continual improvement: The attendance, performance report and the counselling remarks will be constantly shared with parents daily, monthly and whenever it is necessary. A daily SMS for regularity, monthly attendance report, performance and counselling whenever it is necessary will be shared with the parents.

5. Co-curricular & Extra-curricular Activities: During the counselling process, a student/mentee observed to be keen or excelling in any co-curricular or extra-curricular will be given proper guidance towards a balanced learning to maintain better performance in academics and the concerned activity as well. Such student/mentee will be forwarded to the respective clubs for her participation and further guidance in national & international level.

6. Campus recruitment, higher education, research & entrepreneurship: During the counselling process, the faculty/mentor will understand the goal of the students regarding her career and guide her towards achieving her goals by recommending her active participation towards Trainings, Seminars, Conferences, Workshops, Publications and Projects, etc., At every stage, the student/mentee will be monitored and report will be maintained cumulatively to motivate them for a better career opportunity.

Efficacy of the Mentoring system

Students will be able to:

- A. Improve their attendance percentage leading to low detention rates.
- B. Students who perform badly in initial tests can improve due to the assignments given, question paper solving and effective guidance.
- C. Register better academic performance.
- D. Lead a quality learning life with confidence.
- E. Succeed in Campus Placements and career building.

• Regularity and Discipline:

In the Student Mentoring System, academic and curricular performance is closely monitored through evaluation of both internal tests and semester-end examinations. Mentors track the results of Midterm (Mid-I, Mid-II) tests and semester-end exams for each student, noting performance improvements or concerns. This data is recorded and used to guide students, recommend tutoring or remedial sessions if needed, and encourage high achievers for scholarship and recognition. The mentoring process emphasizes continuous academic monitoring alongside attendance and behavioral checks to provide timely support for students' overall development and success.

• Counseling Details:

The Student Mentoring System includes comprehensive counseling that addresses the following key issues:

1. Economic Issues:

Counselors provide support to students facing financial difficulties, guiding them to scholarships, financial aid, and other resources to help them continue their education without undue financial stress.

2. Teenage Issues:

Mentors help students navigate common adolescent challenges such as social media pressures, body image concerns, peer relationships, and emotional changes through guidance and appropriate counseling.

3. Health Issues:

Students with health problems receive attention to ensure their well-being, including referrals to medical professionals if necessary, and accommodations to aid their academic progress.

4. Emotional Issues:

Counseling services address emotional challenges like chronic discipline problems, temper issues, conflicts with authority, bullying behavior, and lack of empathy, providing support to improve emotional regulation and interpersonal skills.

5. Psychological Issues:

For more serious concerns such as depression, anxiety, stress, and other mental health disorders, students are provided with appropriate counseling and, when needed, referred to psychologists or specialized mental health professionals for further help.

Co-curricular and Extra-curricular Activities:

- The project record maintained by mentors includes comprehensive details of both Mini Projects and External or Major Projects undertaken by students. Mini Projects help students develop practical skills on smaller, focused topics and are closely monitored to ensure learning objectives are met. External or Major Projects involve more extensive research and application, often incorporating real-world problems. Mentors guide students through planning, execution, and presentation of these projects, documenting progress and outcomes. This record serves as an important aspect of the mentoring process to track academic growth, enhance hands-on experience, and prepare students for future professional challenges.

• Internships & Placement Records

Regarding placement, mentors guide students through career preparation activities, including training sessions, seminars, and workshops, helping them enhance employability skills. They also track placement opportunities, student applications, and job offers received. This ongoing documentation and counseling help students align their academic progress with industry requirements and prepare effectively for campus recruitment and career advancement.

At the institute students are constantly monitored through regular interaction and mentoring process. In the event of any special issues arising out of economic, academic, health and psychological problems, the mentors will try to rectify the situation by providing relevant support. Few of special issues presented in Table 9.1.1.

Table 9.1.1: Impact through counselling on special issues

S. No	Name of student	Nature of Problem	Status of student (Issue)	Counseling or Support given	Efficacy
1	23KP1A0415 Chennakesava	Academic/ Curricular Performance	Backlogs problem	Remedial and tutorial classes are held to prepare the student for supplementary exams.	Cleared all the active backlogs
2	23KP1A0419 Aanuhya	Regularity & Discipline	Irregularity problem	Motivated to attend regularly by explaining the value of education.	Regularity Improved
3	23KP1A0441 Priya Darshini	Psychological Issues	Depression problem	Motivated the student by showing the motivational and spiritual videos. Constantly monitored her progress.	Student participated and interacted actively.
4	22KP1A1418 Narasimha Reddy	Economic Issues	Financial problem	Motivated the student to study well in order to get Means and Merit scholarship provided by the institute.	Student received mean scholarship provided by the institute.
5	22KP1A1428 D.Thanuja	Teenage Issues	Love failure	Guided the student to choose the right path and made the student realize the importance of parents.	Student chose the correct path and focused on studies.
6	22KP1A1429 D.Venkata Swami	Academic/ Curricular Performance	Dropping the college due to unable to understand the concepts	Suggested easy ways to understand the concepts through online videos and also provided study materials to prepare for the exams. Student gradually gathered confidence to continue the studies.	The student continued in the college and cleared all the subjects.

7	24KP1A05M0 P.Naresh	Health Issues	Irregularity problem due to health issues	Student was provided medical assistance and student recovered slowly from the illness.	Student started attending the classes regularly.
8	24KP1A0519 N.Sagar	Psychological Issues	Behaviour problem	Student was made to understand the importance of behaviour and ethics. Motivational videos were shown.	Student changed her attitude and interacted with classmates nicely.
9	24KP1A05G5 M.Prabhu Teja	Psychological Issues	Depression problem	As she is under constant stress and anxiety out of fear of the subjects she has been counselled by HoD. Mentor is asked to be in regular touch with her. Motivate her suitably by asking one of the lady faculty members to clarify her doubts and about exam pattern.	Student slowly gained confidence over period of time and concentrated on studies.
10	24KP1A05H6 M.Rohit Bhanu Chandu	Psychological Issues	Depression problem	Mentor identified the reason behind student's depression and explained to her about the importance of studies and motivated her through inspiring and motivational videos	Student has overcome her depression; changed her attitude and concentrated on the studies and
				to overcome the depression.	secured good marks.
11	23KP1A0593 M.Srikanth	Health Issue	Health problem (Migraine)	Identified the problem and institution has provided medical assistance to the student.	Student recovered from her illness and concentrated on her studies and secured good result.
12	23KP1A05V2 P.Kula Shekar	Health Issue	Health Problem (Constant Fever)	Institute provided the medical assistance and advised the student to consult specialist doctor.	Student recovered from health problem and concentrated on studies

1. Impact through counselling on academic performance

The academic/curricular performance of the Student's/Mentee's was good up to their First academic year. Later in the second year their academic performance was fall down due to not able to clarify their doubts in time with inferiority complex. In order to improve their academic performance, proper mentoring and guidance was provided with the help of student mentoring system by respective mentor. So that, it was observed student's/mentee's performance was improved in the further academic years.

Department of _____

Student counselling data sheet

Affix Passport size Photograph

Personal Data	
Name of the student	
Roll Number	
Branch/semester	
Name of the father/mother/guardian	
Permanent address	
Mobile number	
Telephone number(residence)	
e-mail Id	
How many brothers and sisters?	
What are they doing?	
Name of the local guardian	
Address of the local guardian	
Telephone number of the local guardian	
e-mail id of the local guardian	
Academic details	
X standard percentage	
XII standard percentage	
What are thrust areas (interested and well knowledge subjects)	
What are the subjects you have scored less marks? What you feel is the reason?	
What is your ambition ? And goal ?	
What are your plans to achieve your goal?	
What are your drawbacks ?	
What are your achievements so far?	Academic: Cultural: Sports:
Any awards?	
Any district/state level participations ?	
Languages known?	Read:
What are your hobbies?	Write:
Who is your role model? And why?	
Are you a member of NCC or NSS	
Any other fields of interest?	

Describe briefly about yourself?	
----------------------------------	--

Report of the Counseling

Counseling Date	
Information Gathered	
Identified problems, if any	
Corrective action	
Remarks	

Student Signature

Counseling Date	
Information Gathered	
Identified problems, if any	
Corrective action	
Remarks	

Student Signature

Counseling Date				
Information Gathered				
Your advice				
Follow up action				
Did you find any improvement				
I Mid marks:	Attendance	Held:	Attended:	%:

Student Signature

Counseling Date				
Information Gathered				
Your advice				
Follow up action				
Did you find any improvement				
II Mid marks:	Attendance	Held:	Attended:	%:

Student Signature

counsellor signature

SAMPLE FORM -ATTENDANCE DETAILS

I B.Tech I Semester Date of commencement of Semester:

S. No	As on	Conducted hours (Cumulative)	Attended hours (Cumulative)	Attendance (%)	Remarks
1					
2					
3					
4					
5					

6					
7					

ACADEMIC PERFORMANCE

SAMPLE-FORM COUNSELLING / MENTORING REPORT

Name of the Mentor:

Head of the Department

Principal

9.2 Feedback analysis and reward /corrective measures taken, if any (10)

Total Marks 10.00

9.2. Feedback analysis and reward /corrective measures taken (10)

In NRIIT , a systematic methodology is used for the feedback on teaching-learning process. The process of feedback collection, analysis and evaluation in our institute is presented in Table 9.2.1.

Table 9.2.1: Feedback collection, analysis and evaluation process

Step-1	Collection of feedback forms for all the subjects from the students based on parameters specified in the questionnaire.
Step-2	Estimation of average for all the parameters and calculation of cumulative otherwise called threshold.
Step-3	After the recommendations of Principal, the threshold value will be finalized. The normal value setup at present is 3.5
Step-4	If the threshold exceeds 3.5, it will be considered as good. If it is less, the faculty performance is considered as average or below average.
Step-5	If the faculty receives good performance, he will be rewarded with monetary benefits (additional increment). If he/she receives average or below-average performance, he/she gets counselling and allows them to get correct their performances.

Figure 9.2.1 illustrates the implementation of feedback process for the corrective actions taken against the feedback analysis.)

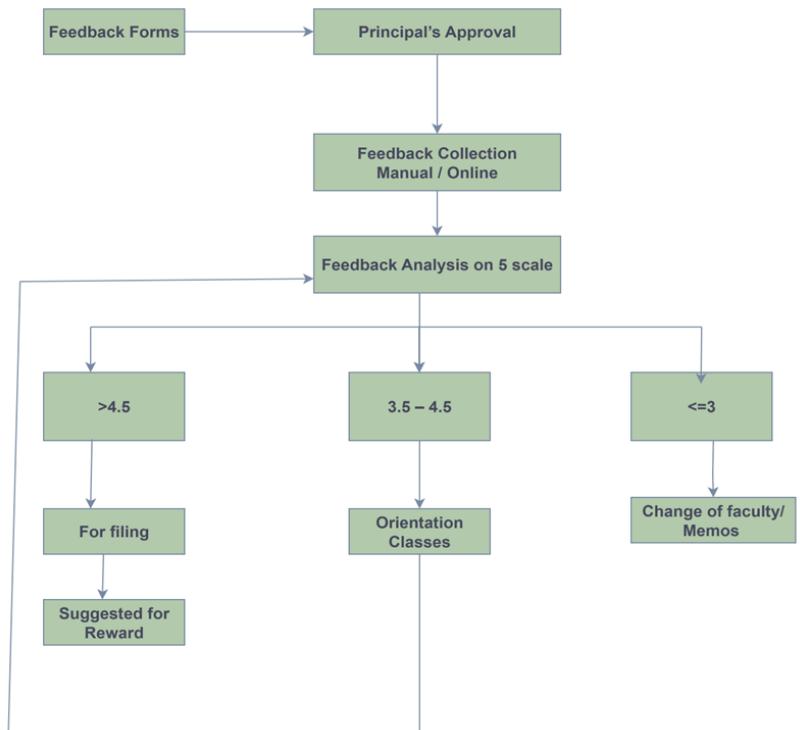


Figure 9.2.1 Illustration of implementation of feedback process

9.2.1. Feedback collection process

Feedback is collected against the format shown in Figure 9.2.2 once in a semester before Mid-I assessment from the students having attendance greater than 75% at the time of collecting feedback.

Percentage of students participating: 90% (Approximately)

Specify the feedback analysis process: The feedback is collected on 10 Parameters on a 5-point scale as shown in Figure 9.2.2.

[SAMPLE COPY](#)

Student Feedback form on Faculty

Department: _____
 Semester/Year: _____
 Student Name (Optional): _____

Instructions for Students:

- Please provide feedback for all the subjects AND Labs you are enrolled in.
- Your feedback will remain confidential and used only for quality improvement.
- Use the scale: 5 – Excellent | 4 – Very Good | 3 – Good | 2 – Satisfactory | 1 – Needs Improvement

SNO	PARAMETERS	SUBJECT NAME		LAB		
		NAME				
	FACULTY NAME----à					
1	Knowledge of the Subject					
2	Communication Skills					
3	Explanation of Concepts					
4	Student Interaction					
5	Use of Teaching Aids					
6	Punctuality & Regularity					
7	Coverage of Syllabus					
8	Fairness of Evaluation					
9	Fairness in Teaching methodology					
10	Overall Effectiveness					

Principal

Figure 9.2.2 Illustration of student feedback form on Faculty

Calculation of overall Index:

Step-1: Consider all 10 parameters.

Step-2: Collect all responses

Step-3: Calculate Average for Each Parameter:

For each parameter

Average Score per parameter = sum of all scores for that parameter / No. of students

Step-4: Convert into percentage index

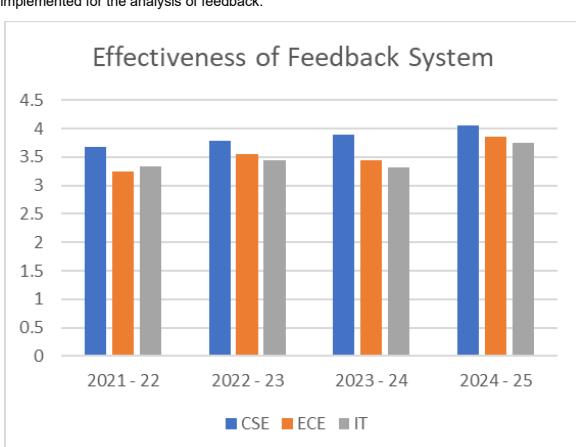
Index(%) = Average score / Maximum scale value * 100

Step-5: Find overall Index = Sum of all parameter averages / No. of parameters.

9.2.1 Effectiveness of Methodology being followed for analysis of feedback

Effectiveness of the methodology being followed was illustrated based on feedback indicator. Feedback indicator is value of average feedbacks employed by the faculty in a department over a batch of students during their entire academics. This feedback indicator was evaluated for the CAY, CAYm1, CAYm2 and CAYm3 for all the programs and illustrated in the Figure 9.2.3.

From the Figure 9.2.3, there is a gradual improvement in the teaching-learning process among all the programs for the last three academic years consistently with the methodology implemented for the analysis of feedback.



YEAR	CSE	ECE	IT
2021 - 22	3.68	3.25	3.33
2022 - 23	3.78	3.56	3.45
2023 - 24	3.89	3.45	3.32
2024 - 25	4.05	3.85	3.75

9.2.3. Corrective actions taken and its efficacy of the Feedback analysis:

In the process of feedback analysis to improve the teacher learning process, a unique process was developed. After the evaluation of feedbacks, faculty who received below 7 will be listed out for further evaluation either through orientation class or recommended to attend FDPs etc. A record of

corrective actions taken was maintained cumulatively for all the three batches. Through principal's office a notification will be issued regarding the orientations to be delivered for the improvement of teaching learning process. A committee will be constituted including Principal along with two program specific internal faculty members. The recommendations of the committee will be constituted and will given to faculty.

undergoing orientation will be given a specific time to improve his skills for a better teaching learning process. After the specified time, the faculty will be analysed against the feedback during his delivery in the same class and will be assessed based on the feedback taken again. Further improvements or guidelines will be forwarded to principal office accordingly. List of corrective actions taken were detailed below in Table 9.2.3 for reference.

Table 9.2.3. Record of corrective actions taken based on feedback

Academic Year 2023-24								
S. No	Program	Date	Faculty	Topic	Corrective Actions	Feedback(5)		Comments
						Before	After	
1	ECE	4.11.2019	Dr.Kalaiselvan	TCP/IP Protocol	Show them network configuration used in our campus and explain each and every hardware to establish the network.	3.2 (III-II) CN ECE-A	4.1	Very Good
2	CSE	4.03.2020	D.Thirupathamma	Polymorphism	Try to improve OOPs concepts by referring different text books. Focus more on LE students	3.3 (II-I) OOPS CSE-A	3.89	Good

Academic Year 2022-23

S.No	Program	Date	Faculty	Topic	Corrective Actions	Feedback(10)		Comments
						Before	After	
1	ECE	09.10.2022	Murthy	VLSI Design	Prepare well and improve the fundamental concepts. Prepare the lecture notes and get approved by the HoD.	3.2 (III- II) ECE Sec-A	3.8	Good
2	CSE	16.10.2018	Y.Jessy Kumari	DLCO	Technical Knowledge is poor. Prepared lecture notes well in advance. Be serious in the class.	3.3 (I-II CSE SEC-A)	3.9	Good

Feedback on facilities

1. Feedback collection process

Feedback on facilities is collected every year through IQAC from the following means:

- a. Student Feedback Form
- b. Parent Feedback Form
- c. Suggestion box

Institute centrally takes the feedback on facilities once in every year through student feedback form and parents feedback form. A suggestion box is placed in the department to get the opinion on the functioning, maintenance of the facilities. The corrective actions were taken wherever necessary based on the above feedbacks and FFC members recommendations. The details of the approval letters and the summary of meetings/discussions are maintained.

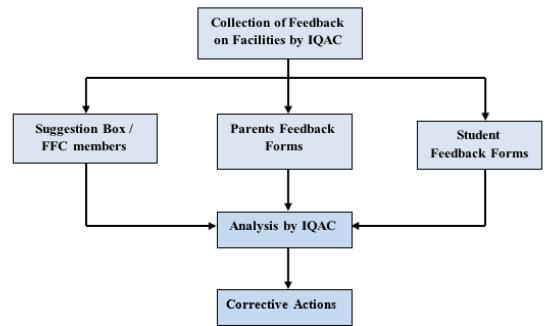


Figure 9.3.1: Illustration of implementation process of feedback on facilities

Analysis of feedback on facilities

Assessment is based on student feedback collection, analysis and corrective action taken. overall rating on the facilities available in the department/institution in parameter wise given in Table 9.3.1 and 9.3.2. The feedback collected will be cumulatively taken on a scale of 5.

Table 9.3.1. Student feedback rating on parameters

S.No	Parameters	Rating (5 Point scale)			
		2024-2025	2023-24	2022-23	2021-22
1	Quality of Teaching in the Dept	4.5	4.5	4	3.8
2	Quality of Infrastructure and Labs in the Department	4.5	4.5	4.5	4.2
3	Training & Placements	4	4	4.5	4.1
4	Extra-Curricular Activities	4	5	4.5	4.3
5	Canteen Facility	3.8	4.5	3.7	3.8
6	Transport Facility	5	5	4.5	5
7	Hospital/First Aid Facility	4	3.9	4	3.8
8	Sports Facility	5	4.5	4.25	4.1
9	Library Facility	5	4.5	4.5	4.2
10	Internet Facility	5	4.5	4.4	4.25
11	Barrier Free Campus	4	4.5	4	4.5
12	Toilet Cleanliness	3.9	3.25	3.5	3.8
Average		4.3	4.38	4.19	4.15

Table 9.3.2: Parent feedback rating on parameters

S.No	Parameter	Rating (5 Point scale)			
		2024-2025	2023-24	2022-23	2021-22

		2024-25	2023-24	2022-23	2021-22
1	Quality of Teaching & Learning Process	4.2	3.9	4.1	4
2	Counseling/Mentoring System	4.5	4.3	4.5	4.4
3	Campus Recruitment Training & Placements	4	3.8	3.5	3.6
4	Quality of Infrastructure in the Dept	4.2	4	3.8	3.6
5	Extra-Curricular Activities	4.3	4.1	4	3.8
6	Overall Personality development of your ward	4.3	3.9	4.1	3.8
7	Laboratory facilities	4.4	4.1	4.2	3.7
8	Library facility	4.2	4.6	4.2	3.8
9	Sports facilities	4.2	4.5	4.7	4.5
10	Transport facility	4.8	4.3	4.2	4.3
11	Toilet Cleanliness	3.6	3.4	3.8	3.7
12	Medical facilities	4	3.8	3.6	3.3
13	Overall rating of NRIIT	4.2	4.1	3.7	3.3
Average		4.22	4.06	4.02	3.83

9.3.3 Corrective Actions Taken:

As per the key identifications from the parameters in above tables, a recommendations list will be prepared and will be presented in the governing body meetings. As per the guidelines given from the minutes, corrective actions will be taken and for last four academic years were listed below in Table 9.3.3.

Table 9.3.3: List of corrective actions taken against recommendations

S.No	Recommendations	Corrective Actions Taken			
		2021-22	2022-23	2023-24	2024-25
1	Hostel Facilities	Yes	Complied	Complied	Complied
2	Library Facilities	Yes	Upgraded	Upgraded	Upgraded
3	Medical Facilities	Yes	Upgraded	Upgraded	Upgraded
4	Transport Facilities	Yes	Upgraded	Upgraded	Upgraded
5	Fire & Safety	Yes	All exposed areas	Upgraded	Upgraded
6	Canteen Facilities like Xerox, stationary, etc arranged in a spacious canteen	Institute Level	Upgraded	Upgraded	Upgraded
7	LCD projectors and computer systems are fixed in every classroom	Limited to program wise	Limited to section wise	Limited to section wise	Upgraded in every classroom
8	Quality equipment and computing facilities increased in the department.	Yes	Upgraded	Upgraded	Upgraded
9	Increased the kits for the in-door and out-door games/sports.	Yes	Upgraded	Upgraded	Upgraded
10	Wifi & Internet Facilities	Yes	Upgraded	Upgraded	Upgraded

Figure 9.3.2: Illustration of facilities

Student and parent feedback forms on facilities are shown in Figure 9.3.3 and 9.3.4.

Figure 9.3.3: Sample of student feedback form on facilities

Students feedback on facilities		Date:
Confidential Information:		
Name of the Student:		Course: (B.Tech.)
University Roll No:		Branch/Section:
Address/contact no:		
1. Are you satisfied with the quality of teaching offered by the Department? Yes/No		
2. Do you find the curriculum appropriate as per the current corporate Scenario? Yes/No		
3. Are you satisfied with the quality of infrastructure and labs in the Department and College? Yes/No		
4. Is placement training is helpful to you? Yes/No		
5. Has the College contributed in moulding your character and personality? Yes/No		
6. Does The Institute provide the opportunity to take part in extra-curricular activities? Yes/No		
7. How do you rate the Institute on overall on a scale of 1-5: <input type="text"/>		
8. Feedback on facilities <u>(Excellent/Very Good/Good/Average)</u> -Canteen Facility <input type="text"/> -Transport Facility <input type="text"/> -Hospital/First Aid Facility <input type="text"/>		

-Hospital/First Aid Facility	<input type="text"/>
-Mess Facility (Food/Stay)	<input type="text"/>
-Toilet Cleanliness	<input type="text"/>
-Barrier Free Campus	<input type="text"/>
-Common Room	<input type="text"/>
-Sports Facility	<input type="text"/>
11. Any specific comments or suggestions <input type="text"/>	
Date: _____ <u>(Signature of Parent/s with name)</u>	

Process of Collecting Feedback on Facilities from Parents:

The institution has established a formal policy for collecting and analyzing parent feedback to enhance the overall quality of education and facilities. Parents are invited to provide confidential feedback covering various aspects such as communication about their ward's performance, satisfaction with teaching quality, student discipline, curriculum relevance, infrastructure, placement support, and extracurricular opportunities.

All parent feedback is treated with confidentiality and used as a valuable resource to align institutional practices with stakeholder expectations, fostering a collaborative educational environment.

Self-Learning

9.4.1 Scope for Self-Learning

Self-Learning at NRIIT was one of the unique ecosystems with diversified learning for students. The details of the self-learning facilities for the student's of our institution were illustrated in the Figure 9.4.1 for the last four academic years.

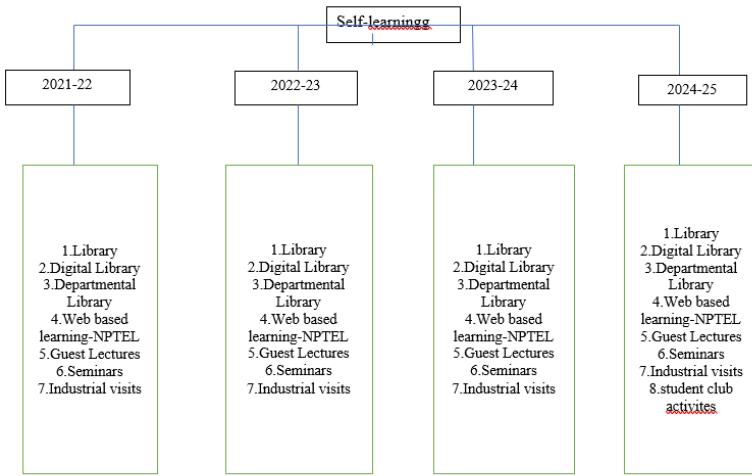


Figure 9.4.1. Illustration of facilities for the scope of self learning

Self-Learning method is an individualized method of learning collecting information, processing it, and retaining it without the need for another individual to teach it.

Table 9.4.1: Details of Self Learning Processes

S.	Self – Learning process	Description
No		
1	Library	Several books provided in central library in department wise.
2	Digital Library	<ul style="list-style-type: none"> • Availability of NPTEL videos. • Sufficient systems with multimedia facilities. • Institutional membership, Internet facility and Access Provided to NPTEL Video Lecture Content, etc.
3	Departmental Library	Availability of course materials and departmental library books.
4	Web-based learning	Provided video lectures through internet.
5	Professional bodies / other association and club activities	Departments have a Professional association memberships, Departmental associations and student clubs.
6	Seminars & Workshops	Several departments have organized seminars and workshops
7	Internships	Institute provided an opportunity to do internships for the students.
8	Industrial visits	Several departments have organized Students Industrial visits.
9	Guest lectures	Several departments have organized Guest lectures.

9.4. B.1. Detailed list of Self – Learning facilities:

Various self learning facilities available at NRIIT were listed below in detail:

a. Central Library

The NRIIT Library has a huge collection of 19,462 books with 3,632 titles on various subjects including technical, humanities, managerial and reference Books covering biographies, dictionaries, yearbooks etc. The library subscribes 94 national and international print journals and 1,014 e-journals, and holds over 1,776 project reports. The Learning materials, Previous Question Papers, Project Reports of all departments are made available.

- The Library is open for all users from 8:00 am to 6:00 pm. The library hours are extended on the basis of need during examinations.
- Regular class time tables of all branches allot one session contains one hour in a week for library study. Each student have a library card using which that she can lend 3 books for 15 days nearly 30 members utilizes same title of book per year.
- The use of library by students is generally more during examination period.
- During examination period students spends more time in library.
- Digital Library is also available to the students with free internet Access.

Table 9.4.2: Detailed list of NRIIT library

S. No	Course	Dept.	No. of Titles	No of Volumes	Effective Utilization			
					2024-25	2023-24	2022-23	2021-22
1	UG	S&H	361	1581	21251	18747	27724	39805
2		ECE	541	3078				
3		EVT	131	1015				
4		CIVIL	345	2006				
5		CSE	487	3378				
6		CSD	464	1080				
7		AIML	206	1061				
8		IT	240	1973				
9		EEE	126	1318				
10		MECH	234	508				
11	PG	MBA	666	2386				
12		MCA	31	78				
TOTAL (Hard copies)			3632	19462				
13	Others	Journals / Periodicals	94		Effectively utilized 100% of the sources for developing projects or materials.			
14		E-journals	1014		Effectively utilized 100% of the sources for developing projects or materials.			
15		News Papers	8		100%			
Improvement of utilization was observed over a period of academic year wise.								

Figure 9.4.2 NRIIT Library

a. Departmental Library:

- The departmental library comprises books of all engineering subjects of various publications, GATE books, and competitive examination books that are accessible to all students.

b. Seminars & workshops

- Every department has organized seminars, workshops, technical events such as Tech Fest to enhance communication skills in students.
- Students give excellent seminars in front of all their classmates about their own interested topics to enhance their presenting and communication skills. These seminar classes help the students for their campus interviews to place them in better position.

c. Internships

- Institute provides an opportunity for the Students of all the departments acquire hands on experience to expose practical learning knowledge from various industries.

Table 9.4.4: Consolidated Sheet of student Internships

S.NO	Branch	Academic Year			
		2024-25	2023-24	2022-23	2021-22
1	CSE	100	40	40	40
2	ECE	130	150	83	140
3	IT	200	1	8	14

d. Industrial visits

- Departmental industrial visits have been organized such as Visaka Steel Plant,Visakhapatnam etc. to understand the practical implementation of the subject.

Table 9.4.5: Effectiveness of Industrial Visit

S no	Academic Year	Department	No of Industries Visited	Total No of students Attended
1	2024-2025	ECE	1	65
		CSE	1	60
		IT	1	45
2	2023-24	ECE	1	60
		CSE	1	70
		IT	2	42
3	2022-23	ECE	1	50
		CSE	1	65
		IT	1	51
		ECE	1	70
4	2021-22	CSE	1	60
		IT	0	0

WEB BASED LEARNING:

- Students of all departments were given the opportunity to participate in online classes , NPTEL etc.
- Department level faculties will encourage the students to undergo web based certification courses like NPTEL, UDEMAY, COURSERA, CISCO, etc.
- Students those who secured best ranking in various courses; they are awarded with prize money as a token of appreciation based on the R&D policy.

Table 9.4.6: Effective Utilization of Web-Based Learning and Certification Courses

Academic Year	S No	Department	Name of the Certification Course	No of students Completed	Total
2024-25	1	ECE	NPTEL	03	207
	2		CISCO	42	
	3	IT	NPTEL	80	
	4		Udemy	28	
	5		Coursera	15	
	6	CSE	NPTEL	5	
	7		CISCO	34	
2023-24	1	ECE	NPTEL	06	192
	2		CISCO	52	
	3	IT	NPTEL	28	
	4		CISCO	32	
	5		Udemy	10	
	6	CSE	NPTEL	2	
	7		CISCO	62	
2022-23	1	ECE	NPTEL	04	169
	2		CISCO	68	
	3	IT	NPTEL	04	
	4		CISCO	35	
5		CSE	NPTEL	1	

6		CISCO	57	125
1	ECE	CISCO	42	
2		NPTEL	03	
3	IT	NPTEL	02	
4		CISCO	37	
5	CSE	NPTEL	0	
6		CISCO	41	

9.4. B.2. Material for Learning Beyond syllabus

i. Digital Library

- The institution provides facilities like a digital library, which can access E-journals of J-Gate Science and Technology, N-Digital has E-Journals & E-Books,
- DELNET has E-Books & E-journals in Engineering & Technology, IEEE provides E-journals and magazines. We can provide 8 newspapers so students can utilize these sources during the leisure hours.
- The Digital Library has 25 computers and several E-Resources of e-journals, e-books; video lectures (like NPTEL) are made available in the Digital Library for effective teaching learning process.

Table 9.4.8: Availability of Digital Library Contents

Availability of Digital Library Contents: Yes Following digital contents are made available		
Content	Accessibility	
NPTEL Video Lecture	Access Provided to NPTEL Video Lecture Content	YES, through local Server
Availability over Intranet /Internet	YES	
No. of users per day:	25 - 35 Per Day	

Table 9.4.9: Effective Utilization of Digital Library

Effective Utilization			
2024-25	2023-24	2022-23	2021-22
6478	5540	3134	1837

ii. Coaching's for competitive exams

- Institution provides coaching for GATE, aptitude, reasoning and workable training were given which makes the students attain effectively for their carrier growth.
- Aptitude test and group discussions are conducted periodically to evaluate performance of the students.
- Worksheets have been design on each topic and circulated to the student's to improve their practice exercise.

iii. Associations

- Institution level fests are organised in the campus where so many events are conducted like paper presentations, poster presentations, rangoli, project expos events are conducted to evaluate their presentation and communication skills.
- In order to provide more exposure to the students towards recent trends emerging technologies and to facilitate better interaction all the departments formed an associations in every year. The main aim of associations is to make sure the students become highly competitive and to acknowledge the inherent talents of the students in both technical and cultural fields.
- Student clubs

NRIIT establishes so many student clubs in every year under those clubs many activities were performed in order to exhibit their skills like singing, dancing, mehandi etc. Every year blood donation camp was organised under health club.

Institute Level Clubs

Academic club and Sports clubs were formed under Institute level. Workshops, seminars, and guest lectures are organized under Academic club. Sports events are conducted under sports club. Details of events conducted under the Academic club and Sports club are listed below.

Table 9.4.13: Consolidated Sheet of Events conducted under Academic Club

S.NO	Type of Event	Academic Year			
		2024-25	2023-24	2022-23	2021-22
1	Workshops	10	27	25	21

2	Guest lectures	12	16	17	15
3	Seminars	10	9	8	15

Figure 9.4.9: Sample of Events Conducted under Academic Club

Table 9.4.14: Consolidated Sheet of Events conducted under Sports Club

S.No.	Club Name	Academic Year		
		2024-25	2023-24	2022-23
1	Sports Club	11	10	10

these clubs many events are conducted for the students to exhibit their technical, non-technical skills and extracurricular activities. The events conducted under these clubs are tabulated in Table 9.4.15 to 9.4.23.

Table 9.4.15: Consolidated Sheet of Department level Clubs

S.NO	Club Name	Academic Year			
		2024-25	2023-24	2022-23	2021-22
1	Academic club	2	2	1	1
2	Technical club	2	2	1	1
3	Cultural club	2	1	1	1
4	Creative club	1	2	1	-
5	Sports club	1	3	1	1

Table 9.4.16: Type of Events Conducted Under Academic Club

Academic Year	2024-25	2023-24	2022-23	2021-22
Event name	Science Quiz	Story Writing	Google It	Code Hunt
Student Committee	B. Harshavarshini	A.S.S.Subramanyaeswari	V. HarshiniChowdary	K.Poornima

9. CAREER GUIDANCE, TRAINING & PLACEMENTs (10)

1. Career Guidance Facilities:

NRIIIT has an effective career guidance system with an effective committee and resources which helps students to decide correct and aspired career path. Career Guidance Cell (CGC) operates with the above stated committee in accordance with students at institute level and individual level.

- Institute Level:** Programs which helps students to decide and work towards their desire career will be organized.

- Individual Level:** Any individual students or the students recommended for career counselling will be directed to CGC and an expert counselling will be provided in choosing their desired career path and working towards it. Special cases directed by Principal, TPO and Program Coordinators will be guided accordingly by CGC whenever it is necessary.

Table 9.5.1. Career Guidance Cell Committee

S.No	Name of the Faculty	Position	Role
1	Dr Kota Srinivasu	Principal	Chairman
2	Mr. G. Durga Naresh	Training and Placement Officer (TPO)	Member
3	Ms. P. Jeevana	Assistant TPO	Member
4	Mr. T. Sk. Moulali	Assistant Professor	Member

The college regularly conducts Personality Development Programs to improve the communication skills of the students from rural background which reassures students of their skills and abilities to succeed. Guest speakers from various industries are invited to provide a broad exploration of various career options and industry knowledge to the students.

Various Career guidance programmes will be organized by the Career Guidance Cell at institute level which helps students to choose, work and achieve their desired career goals. These programs were categorized and will be commenced with the approval of principal and all the program coordinators. Such events were listed below in table 9.5.2.

Table 9.5.2. Career Guidance Programs conducted

SNO	DATE	Resource Person Name	No.of Students Attended	Name of the Topic
1	14-10-2024	Ms Kalyani	310	Higher Education
2	20-08-2025& 26-08-2025	Mr Santhosh	240	Data Security
3	15-09-2025	Shaik Nagur Babu	440	Higher Education
4	02-09-2025& 06-09-2025	Mr V.Pavan	500	Quantum Computing

1. Counselling For Higher Studies

Career Guidance Cell is also responsible for counselling the students for higher studies in the diversified fields of engineering or others in line with the interest and performance of the students. Various higher education awareness programs were conducted to give the detailed structure and instructions set for the students to enhance their knowledge to clear GATE/GRE, GMAT etc.

Table 9.5.3. List of Programs to counsel the students towards higher studies

S.No	Date	Topic	Resource Person
1	15.09.23	Awareness Program On Higher Education Given By Leo Global Overseas	Shaik Nagur babu, Business Development Manager
2	22.12.23	Opportunities In Abroad By Higher Studies	Mr. Manmohan, Director
3	24.01.24	Preparation For GATE, ESE & PSU By UNI GLOBAL	Mr. M Babuji, Business Development Manager
4	16.06.24	Importance Of GRE,GMAT,TOEFL By Masters Visa	Ms. Lakshmi Vasavi
5	13.12.24	Create Awareness On Overseas Education System	Mr.M.Babuji, Marketing

Apart of these programs, students those who desires counselling for higher studies will be direct to CGC for further guidance. CGC was chosen to have all the senior level faculty with the department expertise who are well aware of all the possibilities and can counsel the students. Wherever necessary the CGC recommends such students who are keen about their higher studies will be allotted with a mentor specialised in the respective fields.

1. Placement Training:

Placement training at NRIIIT was developed to enhance the student's skills such as communication skills, soft skills, personality development skills and technical skills through outcome based education. Skill sets focused to be developed by placement training will be cumulated by the below Training & Placement Cell Committee from the employer feedbacks.

Table 9.5.4. Training & Placement Cell Committee

S. NO.	NAME	DESIGNATION	POSITION
1	Dr. D. Sanjay	Professor	Principal
2	Mr. G. Durga Naresh	Associate Professor	Training and Placement Officer
3	Ms. P. Jeevana	Associate Professor	Assistant Placement Officer
4	Mr. T.Sk. Moulali	Assistant Professor	Technical Trainer
5	Mr. D. Koteswarao	Associate Professor	T & P coordinator – CSE
6	Mr. B. Srinivas	Assistant Professor	T & P coordinator – DS
7	Ms. P. Yojitha	Assistant Professor	T & P coordinator – ECE
8	Mr. P. Srinivas	Assistant Professor	T & P coordinator – IT
9	Ms. Ch. Bindu Madhavi	Assistant Professor	T & P coordinator – AIML

The recommendations or the suggestions given by the employers and program coordinator will be taken in to the consideration while designing the Pre-Placement Training Calendar. The Pre- Placement Training from Training and Placement will be circulated among all the program for circulations.

Steps in designing Placement Training:

1. Acquiring feedback of employers and program coordinators.
2. Cumulative recommendations will be developed for the Principal Approval.
3. Preparation and circulation of Placement Training Calendar.
4. Instructing the students to finish pre-requisites through web-based learning.
5. Ensuring the conduct of Training programs as per the calendar.
6. Conduct of company specific trainings wherever a specific skill was required from the students through Job descriptions (JD).
7. Ensuring the students to be ready for placements before the campus interviews scheduling.

Implementation of Placement Training:

Post designing the Placement Training Calendar, a defined procedure will be implemented for executing the Pre-Placement Training:

1. From II B.Tech onwards two non credit courses were implemented such as:
 - a. Aptitude Training
 - b. Technical Training (Core & Programming Skills)
2. Before IV B.Tech, undertaking forms will be issued to all the students for their consent towards training.
3. Students reporting those who are not willing will be forwarded to CGC through TPO.
4. Students who accepted the undertaking, training will be processed through the following modules;
 - a. Campus Recruitment Training (Eligibility: above 60% aggregate in academics / special cases recommended by program coordinator through principal if any)
 - i. Product Development Training.
 - ii. Application Oriented Training.
 - b. Company Specific Training (as per the eligibility & JD)
 - c. Professional Internships.
 - d. Specialised Training (If any concerns from Principal/GC/Program Coordinator)
5. Both the stated trainings will be carried out by the following organizations as stated where ever they were recommended by Principal and TPO.

Table 9.5.5. List of MOU's made for Pre-Placement Training Programs

S.No	MOU with companies	MOU with Institution	Date of MOU
1	L4G Solutions Pvt Ltd,Hyderabad	NRIIT	07-04-2020
2	Innovative Technologies, Vijayawada	NRIIT	15-11-2022
3	Elite Technologies,Guntur	NRIIT	09-03-2020
4	CORTEK TEST Solutions,Hyderabad	NRIIT	03-01-2022
5	CERTYBOX Skills for Tomorrow, Vijaywada	NRIIT	17-03-2020

6	ELEATION	NRIIT	09-09-2021
7	GAGAN APPS	NRIIT	19-08-2019
8	TEAM LEASE EDUTECH LTD	NRIIT	09-09-2021
9	PANTECH SOLUTIONS PVT LTD	NRIIT	23-09-2021
10	IVIS TECHNOLOGIES	NRIIT	21-07-2022
11	SUPRAJA TECHNOLOGIES	NRIIT	05-05-2025
12	UNIVERSITY OF SILICON ANDHRA	NRIIT	30-11-2021
13	SRM UNIVERSITY	NRIIT	07-09-2023
14	EDIFY EDUCATIONAL SERVICES	NRIIT	10-12-2021
15	ORACLE ACADEMY	NRIIT	17-10-2024

Table 9.5.6 Effectiveness & Impact of Training through Professional Internships:

S.No	Hired On	Students Name	Company Name	Stipend
1	24-12-2023	Tavvagunta Shaik Moulali	Codegnan IT Solutions	Free Training Without stipend
2	01-05-2024	M Bharath	Kodnest Technologies	Free Training Without stipend
3	24-12-2023	D Pavani	Codegnan IT Solutions	Free Training Without stipend
4	17-03-2024	V Dhyana Malika	Kodnest Technologies	Free Training Without stipend
5	24-12-2023	Sashipriya	Codegnan IT Solutions	Free Training Without stipend
6	01-05-2024	J Sivasai	Kodnest Technologies	Free Training Without stipend
7	09-03-2023	G Sivasai Kalyan	Suryatech Solutions	10,000
8	09-03-2023	G Ramarao	Suryatech Solutions	10,000
9	12-12-2022	P Raghavendra	Q spiders	Free Training Without stipend
10	12-12-2022	K Srinivasrao	Q spiders	Free Training and Placement Assistance
11	12-12-2022	K Nimisha reddy	Q spiders	Free Training and Placement Assistance
12	05-02-2024	G Naga Sampoorna	Excelr	Free Training and Placement Assistance
13	05-02-2024	K Harini	Excelr	Free Training and Placement Assistance
14	05-02-2024	K Manisha	Excelr	Free Training and Placement Assistance
15	05-02-2024	C Padmasai	Excelr	Free Training and Placement Assistance

Effectiveness & Impact Analysis Placement Training:

Effectiveness and impact analysis of our pre-placement training was illustrated in below Figure

9.5.7 which shows the continuous improvement in the last three academic years among all the programs. Percentage of students got placed who received pre-placement training was given in detail in the Table 9.5.8.

Table 9.5.7. Effectiveness of the Placement Training:

S No	Batch	Branch	Total Strength	Students Registered	Students Placed	%
1	2022-23	CSE	112	100	70	62.5
		ECE	76	70	63	90
		IT	21	15	7	33.3
2	2023-24	CSE	109	95	77	70.6
		ECE	105	92	83	79
		DS	52	45	34	65.3
		IT	47	40	25	53.1
3	2024-25	CSE	111	100	80	72
		ECE	134	115	102	76.1
		IT	47	40	28	59.5
		CE	16	10	6	37.5
		DS	115	100	80	69.5
		AIML	53	45	30	56

9.5.4. Placement Process & Support

Placement Process & Support at NRIIT was led by the Training & Placement Committee as stated in Table 9.5.5. In the beginning of the Placement Academic year, an invitation brochure with the prospects of our institution will be sent to different organizations meeting the standards of our students inviting to test, analyse and recruit our students. Placement support is inclusive of the TPC committee provided with dedicated seminar hall for pre-placement talks, board room for panel discussions, 3 interview panels with a provision for another 4 panels with restructuring for TR & HR interviews. Successive procedure of **Placement Process and Support** is as follows:

1. Inviting selective organizations/companies through institute prospects brochure.
2. Collecting the Job Descriptions of the organizations/companies to ensure the prerequisites of our students trained.
3. If any deficiencies or extra skills required will be asserted and forwarded to Principal through TPO for further approval of conduct.
4. Ensuring the students undergone pre-placement training meet the JD requirements.
5. Upon the campus hiring request received by the company, the same will be concerned the Principal and TP Cell Committee for further approval date of conduct of campus hiring with reference to step 4 & 5.
6. Schedule date/date's will informed to students through TP Cell for preparing themselves in prior for the campus hiring.
7. Ensuring the eligible students have all the documents verified by the respective member of TPC Committee at least 24 hours prior to the hiring process.
8. Conduct of the campus drive with all the amenities at our institution.
9. If the requirement of the company/organization is beyond the number of eligible students at our campus we are inviting in and around campuses students to participate in the campus hiring with social responsibility.
10. Feedback will be taken against the performance of our students for further improvement in the placement training process.
11. Post hiring process, the list of selected students will be sent to Program coordinators through principal for further filing of offer letters/confirmation as proof of placement.

9.6 Entrepreneurship Development Cell:

The Entrepreneurship Development cell in NRIIT was established in the year 2021 under the supervision of the T&P Department. The head of the Entrepreneurship Development cell is Mrs. JEEVANA of T&P Dept and a team of faculty from various departments together form a strong team in encouraging entrepreneurship.

Vision:

To produce successful entrepreneurs imbued with innovative skills and ethical business practices contributing to the development of the society and growth of the nation.

Mission:

To promote the culture and spirit of entrepreneurship among students and motivate them to become entrepreneurs.

Objectives of EDC area

- To create awareness on Entrepreneurship among the students through training programmes and camps.
- To enhance industry institute interaction through guest lectures and industrial visits.
- To help students acquire necessary managerial skills to run an enterprise effectively.
- To generate entrepreneurship skills among the students to cope up with the current trends in the market.
- To help students channelize their goals to become a versatile entrepreneur.

9.6.1 Entrepreneurship Development Cell Committee

The members of the Entrepreneurship Development Cell Committee include Principal, Vice-Principal, ECE,CSE and Mechanical HOD's and senior Faculty from every Department. The details of the committee are listed in Table 9.6.1.

Table 9.6.1: Members of the Entrepreneurship Development Cell Committee

SNO	NAME	DESIGNATION	POSITION
1	Dr K.Srinivasu	Principal	Chairman
2	Dr Srihari Rao	Vice-Principal	Member
3	Dr Zia Ur Rahman	MBA-HOD	Member
4	Dr J.Chandra Sekhar	HOD-CSE	Member
5	P.Ravi Kumar	HOD-Mechanical	Member
6	Dr B.Saidaiah	Professor in ECE	Member
7	B.Rajasekhar	HOD-T & P Dept	Member
8	D.Koteswara Rao	Associate Professor	Member
9	B.Sowjanya	Associate Professor in IT	Member

9.6.2 EDC Initiatives and Activities:

1. Awareness & Motivation:

- Entrepreneurship Awareness Camps (EACs): Short-term programs to create awareness about starting a business.
- Guest Lectures & Talks: Inviting successful entrepreneurs, investors, and startup founders.
- Idea Generation Workshops: Activities to encourage creativity and problem-solving.

2. Skill Development & Training:

- Workshops on Business Skills: Marketing, finance, leadership, pitching, and negotiation.
- Technology & Innovation Training: Exposure to latest tools (AI, IoT, Robotics, etc.).
- Soft Skills Development: Communication, teamwork, and decision-making training.

3. Practical Exposure:

- Incubation Support: Providing space, resources, and technical facilities for startups.
- Mentorship Programs: Connecting students with industry experts and alumni entrepreneurs.
- Pre-Incubation Programs: Helping students refine ideas into viable business models.

5. Funding & Networking:

- Seed Funding / Grants: Financial support to promising student startups.
- Startup Showcases / Pitch Fests: Platforms for students to pitch to investors.
- Networking Events: Linking students with venture capitalists, angel investors, and government bodies.

6. Institutional & Government Support:

- Tie-ups with Government Schemes: (like MSME, DST, AICTE, Startup India, Atal Innovation Mission).
- MoUs with Industries & Incubators: Collaborations for resource and mentorship sharing.
- Patent & IPR Support: Guidance on filing patents and protecting innovations.

7. Student-Centric Activities:

- EDC Clubs / Societies: Peer-to-peer idea sharing and competitions.
- Business Plan Competitions: Encouraging students to draft and present detailed plans.
- Entrepreneurship Fests: Exhibitions, panel discussions, and startup expos.

Table 9.6.2: Entrepreneurship Activities during the tenure 2021 to 2025

S.No	Date	Event	Resource Persons	Members Attended
1	02.08.2021 to 03.08.2021	2-Day Entrepreneurship Development Program in collaboration with CORTEK Soft Solutions,Hyd	Mr Pradeep Kanneganti CEO,CORTEK Soft Solutions,9 th Floor,Hitec City,Cyber Towers,Hyderabad	3 rd and Final Year Students of all Branches
2	26.11.2021	Entrepreneur Development Program-How to get an innovative thought to build a startup	Mr Dasaradha Rama Raju,Project Lead,TCS,Hyderabad	3 rd and Final Year Students of all Branches
3	21-08-2023	World Entrepreneurship Day	Mr I.Srikanth	Final year studens of all branches
4	10-10-2023	Entreneurship Awareness Session	Mr NagaRaju	Final year studens of all branches
5	21-08-2024	World Entrepreneurship day-role of entrepreneurs in a society	Mr. Goutam Sunandan	Final year studens of all branches
6	21-08-2025	World Entrepreneurship day	M.Swathi Senior Manager	Final year studens of all branches

9.6.3 Entrepreneurship Development Cell facilities:

The facilities of Entrepreneurship Development Cell are mentioned below in Table 9.6.3.

Table 9.6.3: Facilities for ED Cell

S.No	Description	Number
1	Computers	2
2	Printers	1
3	LCD Projectors	1
4	WhiteBoard	1

9.6.4 Effectiveness of Entrepreneurship Development Cell:

Entrepreneurship Development Cell has conducted listed events to motivate, guide and develop students to create their own ventures. Such start-ups and outcomes of ED Cell were listed below in Table 9.6.4.

Table 9.6.4: List of Entrepreneurs in the tenure 2021-25

S.No	Name of the Student	Branch	Typeof Business	Name of the Company and Place
1	Koushik	DS	Gold Shop	Natraj Jewellers
2	Y.Srinivas 22KP1A1260	IT	Vegetable Business	Established VEG MART-Collecting Veggies from farmers & Selling
3	P.Sandeep 22KP1A1241	IT	Fruit Business	Juice Point Established in Phoenix Mall,Guntur
4	K.Sai Koti	IT	Construction	Distributing Cement to House Construction Builders
5	Shaik Mohammed Ahmed	IT	Gold Business	Lalapet,Guntur

SAMPLE COPY OF Entrepreneurship Awareness Program

Organized by : Entrepreneurship Development Cell

Name of the Speaker : Mr. Goutam Sunandan

Designation : Manager

Topic : World Entrepreneurship day

Venue : Seminar hall B-Block

Date & Time : From: 21.08.2024 To: 10 to11am

Conducted for :

Branch	Year	Semester	No of Students Attended
Civil	2 nd year	2-2	10
ECE	2 nd , 3 rd & 4 th year	2-2,3-2,4-2	200
CSE	2 nd , 3 rd & 4 th year	2-2,3-2,4-2	150
MBA/MCA	2 nd year	2-2	50
Total No of Students Attended			410

Profile of the Speaker

- Name: Goutam Sunandan

- Designation: Manager

- Organization: State Bank of India

- Location: Perecherla, Guntur

As a seasoned banking professional, Goutam Sunandan brings extensive experience in digital transformation and technology implementation in banking. With a strong background in project management, risk management, and customer relationship building, he has been instrumental in driving business growth and supporting the development of innovative banking solutions in the region.

Report

1. Report in brief by Organizer / Coordinator / Convener:

It was an engaging experience! Mr. Gautam Sunandans visit to our campus on World Entrepreneurs Day was insightful and motivating for the students. His passion for entrepreneurship and sharing real-life examples must have connected well with the students.

Its great to hear that he emphasized the importance of innovation in entrepreneurship and possibly discussed opportunities for young entrepreneurs in India. This kind of interaction can be a game-changer for aspiring entrepreneurs, especially engineering students looking to turn their ideas into reality.

Mr. Gautam Sunandans speech seems to have had a positive impact on the students, and its wonderful that he was able to share his knowledge and experience with them.

**2. Feedback from students:**

The workshop was extremely engaging and highly informative! It provided us with a lot of knowledge and insights into Entrepreneurship. Thank you, Gautam Sunandan, for sharing your expertise and motivating us!

3. Remarks from Resource Person:

"It was a fantastic experience interacting with the talented students at NRI Institute of Technology! I loved sharing my thoughts on innovation and witnessing the students passion. Thanks for having me as part of this session – it was super enriching!"

Principal

9.7 Co-curricular and Extra-curricular Activities (10)

Total Marks 10.00

9.7.Co-Curricular and Extra-Curricular Activities

As per our vision, institute constantly beliefs to produce not only the knowledgeable students but professionals of all round personality by providing various co-curricular and extracurricular activities. We believe that it helps not only getting placements but also helps them to grow their leadership qualities.

9.7. A. Availability of sports and cultural facilities (3):

Sports provide an invaluable opportunity for our students to interact, keep fit, pursue excellence and work in teams. Our sports facilities are extensive and well-equipped, catering to a wide range of sports. There are indoor game facilities as well as extensive space for outdoor sports.

Table 9.7.1: List of indoor and outdoor game facilities available in the campus

S. No	Name of the sport facility	Quantity	Place of availability
1.	Throw ball nets	03	PD ROOM
2.	Throw balls	06	
3.	Volley ball nets	04	
4.	Volley balls	09	
5.	Volley ball antenna	2 set	
6.	Ball badminton net	02	
7.	Ball badminton rockets	08	
8.	Shuttle nets	02	
9.	Shuttle rockets	70	
10.	Shuttle barrels	10	
11.	Tenni koit nets	02	
12.	Tenni koits	08	
13.	Carrom boards	11	
14.	Carrom board powder	5 tins	
15.	Carom board coins	09 sets	
16.	Chess boards	10	
17.	Chess board coins	10 sets	
18.	Cricket bats	08	
19.	Cricket stumps	04 pairs	
20.	Cricket balls	90	
21.	Kho-kho poles	01 pairs	
22.	Shot – put	04	
23.	Discuss throw	02	
24.	Javelin throw	01	
25.	Skipping ropes	04	
26.	Weighing machine	01	
27.	Stop watch	01	
28.	Air pump	01	
29.	Measuring tape	02	
30.	Marking ropes	03	
31.	Table tennis board	02	
32.	Table tennis balls	3 boxes	OUTDOOR
33.	Table tennis net	04	
34.	Table tennis rockets	04 pairs	
35.	Ground roller	01	

Table 9.7.2: Available list of sports courts for outdoor games

S.No	List of the courts	Dimensions	Quantity
1.	Throw ball	18.30m X 12.20m	02
2.	Volley ball	18mX9m	02
3.	KHO- KHO	27mX16m	01
4.	Shuttle	13.40mX6.10m	02
5.	Tenni-Koit	12.20m X5.50 m	01
6.	Kabaddi	12m X 8m	01
7.	Cricket pitch	20.12m X 3.05m	01
8.	Running Track	200m	01
9.	Long jump pit	10m X 2.75m	01

Available Cultural Facilities:

A vibrant learning experience is about more than just classroom sessions. Guest lectures, symposia, seminars and conferences expose students to key insights, new ideas and a chance to engage with peers and experts in discussion and debate. Our 300-seater seminar hall (**68.6" X 47.7"**) facilitates this free interplay of ideas. Air conditioned and equipped with modern equipment such as multimedia projectors and high quality sound systems, it has guest lobbies and verandahs, which are ideal venues for conferences and exhibitions. Many dignitaries have graced this imposing edifice.

9.7. B. NSS and other Clubs (3):

The self- funding of National Service Scheme (NSS) unit of **NRIIT** is very active in organizing awareness rallies and programs to create awareness among the public on environmental relevant issues. NSS unit of NRIIT identifies interested students to conduct social awareness programs in surrounding regions. It also encourages students to learn through service.

9.7. B.1 : Details of NSS activities conducted in the campus:

Table: 9.7.3: Consolidated list of events conducted National Service Scheme (NSS)

S. No.	Event	Academic Year			
		2024-25	2023-24	2022-23	2021-22
1	NSS	29	24	7	17

Table 9.7.4: List of NSS activities conducted in CAY (2024-25)

Sl. No	Date	Name of the event	No of the participants	Venue	Target Beneficiary
1	05/07/2024	SPELL BE COMPETITION	150	College campus	Students, staff
2	13/07/2024	MOTIVATION CLASS BY DIRECTOR	200	College campus	Students
3	31/07/2024	INDUCTION PROGRAM	200	College campus	Students, staff
4	13/08/2024	Awareness program for students on freedom fighters	650	College campus	Students
5	15/08/2024	Independence Day	610	College campus	Students
6	22/08/2024	Cyber security awareness	200	College campus	Students
7	24/08/2024	Awareness program Against Crimes on Women in society	400	College campus	Students
8	27/08/2024	HIV Awareness	400	College campus	Students, staff
9	30/08/2024	Awareness Camp on Soft skills	350	College campus	Students, staff
10	05/09/2024	Teacher's day	650	College campus	Students, staff
11	10/09/2024	Health Awareness camp on women health	350	College campus	Students
12	14/09/2024	Engineering's day	500	College campus	Students, staff
13	17/09/2024	DE warming	650	College campus	Students, staff

14	19/09/2024	Food and essential supplies donation camp-FLOODS	500	College campus	Students, staff
15	23/09/2024	Awareness camp on plastic	500	College campus	Students, staff
16	24/09/2024	plantation	400	College campus	Students, staff
17	01/10/2024	Gandhi Jayanthi	200	College campus	Students, staff
18	15/10/2024	Abdul kalam Jayanthi	650	College campus	Students, staff
19	30/10/2024	Blood donation	150	College campus	Students, staff
20	29/11/2024	Water awareness camp	400	College campus	Students, staff
21	04/12/2024	Dental camp	450	College campus	Students, staff
22	06/12/2024	Blood donation camp	300	College campus	Students, staff
23	18/12/2024	Awareness on cyber crime	500	College campus	Students, staff
24	20/12/2024	Mathematics day	500	College campus	Students, staff
25	23/12/2024	Awareness Camp on Quality Engineering	650	College campus	Students, staff
26	24/12/2024	Vajpayee (Good governance day)	400	College campus	Students, staff
27	27/12/2024	Birth Anniversary of Mammohan Singh	250	College campus	Students, staff
28	10/01/2025-13/01/2025	Sankranti Sambaralu	650	College campus	Students, staff
29	12/01/2025	National Youth Day	650	College campus	Students, staff

Table 9.7.5: List of NSS activities conducted in CAY m1 (2023-24)

Sl. No	Date	Name of the event	No of the participants	Venue	Target Beneficiary
1	05/07/2023	SPELL BE COMPETITION	140	College campus	Students, staff
2	13/07/2023	MOTIVATION CLASS BY DIRECTOR	150	College campus	Students
3	31/07/2023	INDUCTION PROGRAM	200	College campus	Students, staff
4	13/08/2023	Awareness program for students on freedom fighters	600	College campus	Students
5	15/08/2023	Independence Day	610	College campus	Students
6	22/08/2023	Cyber security awareness	180	College campus	Students
7	24/08/2023	Awareness program Against Crimes on Women in society	400	College campus	Students
8	27/08/2023	HIV Awareness	350	College campus	Students, staff
9	30/08/2023	Awareness Camp on Soft skills	350	College campus	Students, staff
10	05/09/2023	Teacher's day	600	College campus	Students, staff

11	10/09/2023	Health Awareness camp on women health	350	College campus	Students
12	14/09/2023	Engineering's day	500	College campus	Students, staff
13	17/09/2023	DE warming	650	College campus	Students, staff
14	19/09/2023	Food and essential supplies donation camp- FLOODS	500	College campus	Students, staff
15	23/09/2023	Awareness camp on plastic	450	College campus	Students, staff
16	24/09/2023	plantation	400	College campus	Students, staff
17	01/10/2023	Gandhi Jayanthi	200	College campus	Students, staff
18	15/10/2023	Abdul kalam Jayanthi	600	College campus	Students, staff
19	30/10/2023	Blood donation	150	College campus	Students, staff
20	29/11/2023	Water awareness camp	400	College campus	Students, staff
21	04/12/2023	Dental camp	450	College campus	Students, staff
22	06/12/2023	Blood donation camp	300	College campus	Students, staff
23	18/12/2023	Awareness on cyber crime	500	College campus	Students, staff
24	20/12/2023	Mathematics day	500	College campus	Students, staff
25	23/12/2023	Awareness Camp on Quality Engineering	600	College campus	Students, staff
26	24/12/2023	Vajpayee (Good governance day)	400	College campus	Students, staff
27	27/12/2023	Birth Anniversary of Manmohan Singh	220	College campus	Students, staff
28	10/01/2024-13/01/2024	Sankranti Sambaralu	650	College campus	Students, staff
29	12/01/2024	National Youth Day	650	College campus	Students, staff

Table 9.7.6: List of NSS Activities Conducted in CAY m2 (2022-23)

S.No	Date	Name of the event	No of the participants	Venue	Target Beneficiary
1	14/04/2022	Dr.B.R..AMBEDKAR JAYANTHI	100	College campus	Students, staff
2	21/06/2022	YOGA DAY	50	College campus	Students
3	19/07/2022	DENTEL CAMP	60	College campus	Students, staff
4	15/08/2022	Independence Day	120	College campus	Students
5	05/09/2022	Teachers' day	100	College campus	Students
6	01/10/2022	Gandhi jayanthi	100	College campus	Students
7	31/10/2022	National Unity Day	100	College campus	Students

Table 9.7.7: List of NSS Activities Conducted in CAY m3 (2021-22)

S.No	Date	Name of the event	No of the participants	Venue	Target Beneficiary

1	21/7/2021	Awareness program on covid-19 3rd wave	50	Inside/outside campus	Public
2	27/07/2021	Abdul Kalam Vardanthy	150	College campus	Students
3	14/08/2021	Plantation Program	200	College campus	Students
4	15/08/2021	Independence Day	2000	College campus	Students
5	28/08/2021	Yoga Classes	150	College campus	Students
6	05/09/2021	Teachers' day	200	College campus	Students
7	15/09/2021	Engineers' day	400	College campus	Students
8	29/09/2021	Awareness camp on Disha app	600	College campus	Students
9	02/11/2021	Mega quiz competition	155	College campus	Students
10	21/11/2021	Donation for college Bus Driver	10	College campus	Public
11	22/12/2021	Mathematics day	550	College campus	Students
12	06/01/2022	Covid vaccination	300	College campus	students
15	11/01/2022	Sankranthisambharalu	200	College campus	Students
13	25/01/2022	Blood donation camp	600	College campus	Students
14	26/01/2022	Republic day	2050	College campus	students
16	08/03/2022	International women day	400	College campus	Students
17	22/03/2022	World water day	200	College campus	Students

Students Clubs

For Smooth Conduction of various co-curricular and extra-curricular activities, different students clubs are formed at departmental and institution level as followed:

I.Co-Curricular Activities

Co-curricular activities are attempted alongside with academic studies. Most commonly, outside the normal classrooms co-curricular activities are performed and they augment academic curriculum and lend a hand for learning by doing. These activities help students to enhance their problem-solving, critical thinking, reasoning, creative thinking, communication, and collaborative abilities. Involvement in any co-curricular activities helps students in emotional development, social skill development, and overall personality development.

By providing the co-curricular activities with various clubs, the students immensely gained rapid advancement in their career.

Following are the names of clubs available in co-curricular activities

A. Academic Club

B. Technical club

C. Cultural Club

D. Sports Club

E. Creative Club

A. ACADEMIC CLUB:

This club enhances the students' knowledge levels towards latest trending technologies through **workshops, seminars and guest lectures** which excel them in their academic projects and crack Technical Interviews.

Table: 9.7.8: List of events conducted by the Department of Computer Science Engineering (CSE) under academic club

S.No.	Event	Academic Year			
		2024-25	2023-24	2022-23	2021-22
1	Workshops	6	8	4	6
2	Guest lectures	8	6	6	5
3	Seminars	11	8	8	5

Table: 9.7.9. List of events conducted by the Department of Electronic & Communication Engineering (ECE) under academic club

		Academic Year
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S.No.	Event	2024-25	2023-24	2022-23	2021-22
1	Workshops	-	4	2	2
2	Guest lectures	-	3	2	4
3	Seminars	-	0	0	0

Table: 9.7.10. List of events conducted by the Department of Information Technology (IT) under academic club

S.No.	Event	Academic Year			
		2024-25	2023-24	2022-23	2021-22
1	Workshops	5	5	4	2
2	Guest lectures	4	4	3	2
3	Seminars	4	4	3	3

B. TECHNICAL CLUB :

This club emphasizes student's logical thinking, coding and communication skills beyond textual knowledge and to establish a relationship between theory and applications of the concept.

Table: 9.7.11. List of events conducted by the Department of Computer Science Engineering (CSE) under Technical Club

Academic Year			
2024-25	2023-24	2022-23	2021-22
7	5	6	5

Table: 9.7.12. List of events conducted by the Department of Electronics & Communication Engineering (ECE)

Academic Year			
2024-25	2023-24	2022-23	2021-22
2	2	2	1

Table: 9.7.13. List of events conducted by the Department of Information Technology (IT) under Technical Club

Academic Year			
2024-25	2023-24	2022-23	2021-22
5	4	4	4

C. Cultural club :

The objective of a cultural club in NRIIT is to provide a platform for students to showcase and develop their artistic and creative talents, foster cultural awareness and appreciation for diverse customs and traditions, enhance interpersonal and leadership skills through event organization, and offer a creative outlet to reduce academic stress

Table: 9.7.14: List of events conducted by Department of Computer Science Engineering (CSE) under Activity Club

Academic Year			
2024-25	2023-24	2022-23	2021-22
3	5	7	4

Table: 9.7.15: List of events conducted by Department of Electronics and Communication Engineering (ECE) under Activity Club

Academic Year			
2024-25	2023-24	2022-23	2021-22
7	5	7	4

Table: 9.7.16: List of events conducted by Department of Information Technology (IT) under Activity Club

Academic Year			
2024-25	2023-24	2022-23	2021-22
4	5	4	4

D. Sports Club:

This club enriches student's sports skills which helps them to stay fit also improves their stamina and excel in various zonal, national sports events.

Table 9.7.17: List of sport events conducted at Institute Level under Sports Club

Academic Year			

2024-25	2023-24	2022-23	2021-22
10	10	10	10

VOLLEYBALL (A):

S.NO	NAME	ROLL NO	BRANCH/YEAR
1	J. SAI KISHORE	23KP1E0025	MBA/II
2	SD. FARUKH	21KP1A44A7	DS/IV
3	CH. VENKAT KALYAN	21KP1A0420	ECE/IV
4	SK. SUBHANI	23KP1A0444	ECE/II
5	B. MAMADHA NAIK	23KP1A0416	ECE/II
6	SK. KHADARVALI	23KP1F00A9	MCA/II
7	N. RAJESH	23KP1E0039	MBA/II
8	J. RAMAKRISHNA	23KP1A0443	ECE/II
9	B. PAVANKUMAR	23KP5A0411	ECE/II
10	Y. KALESHWAR RAO	23KP1A0401	ECE/II
11	Y. RAJESH	23KP1A0540	CSE/II
12	P. VENKATESH	23KP1A0491	ECE/II

CARROMS:

SNO	NAME	BRANCH/YEAR	ROLL NO
1	M. MANIKANTA	MCA/I	23KPI0067
2	SK. KHADARA VALI	MCA/I	23KPI00A9

E.Creative Club :

The main objective of a creative club in an engineering college is to foster student creativity and innovation through workshops, projects, and events, encouraging imagination, artistic expression, and collaboration. The club serves as a platform for students to develop their individual and collective thinking, enhance their creative and management skills, build confidence, and cultivate teamwork.

Table: 9.7.18. :List of events conducted by the Department of Computer Science Engineering (CSE) under Creative Club

Academic Year			
2024-25	2023-24	2022-23	2021-22
5	4	3	3

Table: 9.7.19. :List of events conducted by the Department of Electrical communications of Engineering (ECE) under Creative Club

Academic Year			
2024-25	2023-24	2022-23	2021-22
2	-	-	-

Table: 9.7.20. :List of events conducted by the Department of Information Technology (IT) under Technical Club

Academic Year			
2024-25	2023-24	2022-23	2021-22
5	5	4	4

9.7.C. Annual Students Activities(4)

Apart from Academics, our students are encouraged frequently to be participated in annual activities like **Yuvatarang, Vista, Association days, Fresher's and Farewell parties**, in order to inculcate leadership skills, social responsibility, finance and project management skills.

I. STUDENTS INTERNSHIPS

An **internship** is an opportunity offered by an employer to potential employees, called **interns**, to work at a firm for a fixed period of time

Table 9.7.21: Consolidated Sheet of Students Internships from the Institute

S.No.	Branch	Academic Year			
		2021-22	2022-23	2023-24	2024-25
1	CSE	100	120	120	135

2	ECE	-	-	150	135
3	IT	60	100	150	200

II. Participation of Students in Co-curricular Activities

a. **DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)**

Table 9.7.22. Inter-Institution Student Technical Prizes from the

S.No.	Academic Year	Events Participated	Award/Prize	Students Participated
1	2024-25	2	2	120

Table9.7.23. Details of Student Technical Prizes for CAY (2024-25)

TEHCNICAL QUIZ

PLACE	ROLL NUMBER	NAME OF THE STUDENT
I	23KP1A6602	B.SRILAKSHMI (III-EVT)
	23KP1A6603	B.RAJYA LAKSHMI (III-EVT)
	23KP1A04B0	SK.SUMIYA (III-ECE)
	22KP1A0417	Ch.GAYATRI (IV-ECE)
II	23KP1A6606	D.VENKAT (III-EVT)
	23KP1A6621	M.NAGA RAJESH (III-EVT)
	23KP1A6631	N.HEMAANTH NAG (III-EVT)
	22KP1A0468	P.PEDHAIAHNAIDU (IV-ECE)

PAPER PRESENTATION

PLACE		NAME OF THE STUDENT
I	23KP1A0490	P.VEERA BRAHMAIAH (III-ECE-B)
	23KP1A0477	N.AVINASH (III-ECE-B)
II	23KP1A04C1	V.S.V.N SRIKAR (III-ECE-B)
	22KP1A0468	P.PEDDAIAH NAIDU (IV-ECE-B)

b. **DEPARTMENT OF COMPUTER SCIENCE ENGINEERING (CSE)**

Table 9.7.24: Inter-Institution Student Technical Prizes

S.No.	Academic Year	Students Awarded
1	2021-22	10
2	2022-23	11
3	2023-24	10
4	2024-25	11

Table 9.7.25: Details of Student Technical Prizes for CAY (2021-22)

S. No.	Name of the Student	Date(s)	Event Name	Institution Name	Awards
1.	A.Varalakshmi	03.01.2021 To 04.02.2021	Introduction of Computer Vision	KHIT	Merit certificate
2.	B.Trikanth	07.09.2021 to 08.10.2021	Workshop on Data Science	KHIT	Merit certificate

3.	K.Manjula	20.12.2021 to 21.01.2022	Workshop on Web development.	Andhra University	Merit certificate
4.	M. Karthik	23.12.2021	Hack AI on Health	VVIT	4 th Prize
5.	SK. Sameer	05.01.2021 to 06.02.2021	Technical Content Writer	KLU	Merit
6.	CH. Susmitha	19.01.2022	Cyber security Internship	Vignan Nirula	Certificate of Appreciation
7.	SK. Riyaz	29.02.2022	Google IT	VIIT	1 st Prize
8.	K.Chaturiya	29.02.2022	Google IT	VIIT	2 nd Prize
9.	B. Shashank	21.03.2022 to 23.04.2022	Idea Presentation	KITS	1 st Prize
10.	T. Harikrishna	21.09.2022 to 23.10.2022	Idea Presentation	KITS	2 nd Prize

Table 9.7.26: Details of Student Technical Prizes for CAY m2 (2022-23)

S. No.	Name of the Student	Date(s)	Event Name	Institution Name	Awards/ Rewards
1.	B. Venkata Sai	02.03.2022 to 03.04.2022	Workshop on IoT	Universal college of engineering	Merit Certificate
2.	B. Jahnavi	20.05.2022 to 20.06.2022	Internship On Cyber Security and Ethical Hacking	RVIT	Certificate of Appreciation
3.	CH. Surya Teja	17.09.2022 to 18.10.2022	Cyber Security and Malware Analysis	KITS	Merit Certificate
4.	P. Lohitha	26.08.2022	Pixel Run	SRM	2 nd Prize
5.	M. Sukanya	26.09.2022 to 27.10.2022	HACKTHON 2022	KLU	2 nd Prize
6.	M. Durga Venkata Jotirmay	06.12.2022 to 08.01.2023	Hackarena	KLU	1 st Prize
7.	R. Aravind Kumar	14.09.2022 to 15.10.2022	Poster Presentation	VIEW	2 nd Prize

8.	V. Susmitha	14.09.2022 to 15.10.2022	Poster Presentation	VIEW	1 st Prize
9.	U. Pavani	14.09.2022 to 15.10.2022	Live Models. Parna App	RVRJC	3 rd Prize
10.	P. Prudhvi Chowdary	11.08.2022 to 16.09.2022	Workshop on Android	RVRJC	Merit Certificate
11.	K. Sushanth	12.03.2023 to 14.04.2023	Electrothon 2K24	KLU	Zonal level 1 st prize

Table 9.7.27: Details of Student Technical Prizes for CAY m2 (2023-24)

S. No.	Name of the Student	Date(s)	Event Name	Institution Name	Awards
1.	K. Savitri	03.01.2023 To 04.02.2023	Introduction of Computer Vision	KHIT	Merit certificate
2.	L. Krishna	07.09.2023 to 08.10.2023	Workshop on Data Science	KHIT	Merit certificate
3.	D. Ayyappa	20.12.2023 to 21.01.2024	Workshop on Web development.	Andhra University	Merit certificate
4.	A.Kumar	23.12.2023	Hack AI on Health	VVIT	4 th Prize
5.	C. Charitha	05.01.2024 to 06.02.2024	Technical Content Writer	KLU	Merit
6.	G.Swapna	19.01.2024	Cyber security Internship	Vignan Nirula	Certificate of Appreciation
7.	A.Satwik	29.02.2024	Google IT	VIIT	1 st Prize
8.	D. Sai Ram	29.02.2024	Google IT	VIIT	2 nd Prize
9.	M.Hem Sai	21.03.2024 to 23.04.2024	Idea Presentation	KITS	1 st Prize

10.	K. Raju	21.09.2024 to 23.10.2024	Idea Presentation	KITS	2 nd Prize
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Table 9.7.28: Details of Student Technical Prizes for CAY m2 (2024-25)

S. No.	Name of the Student	Date(s)	Event Name	Institution Name	Awards/ Rewards
1.	I. Santoshi	02.03.2024 to 03.04.2024	Workshop on IoT	SRM	Merit Certificate
2.	S. Tarun	20.05.2024 to 20.06.2024	Internship On Cyber Security and Ethical Hacking	KLU	Certificate of Appreciation
3.	B. Manasa	17.09.2024 to 18.10.2024	Cyber Security and Malware Analysis	KLU	Merit Certificate
4.	G. Navya	26.08.2024	Pixel Run	VIEW	2 nd Prize
5.	K. Sushma	26.09.2024 to 27.10.2024	HACKTHON 2024	VIEW	2 nd Prize
6.	M. Nagamani	06.12.2024 to 08.01.2025	Hackarena	VIIT	1 st Prize
7.	M. Sulaman	14.09.2024 to 15.10.2024	Poster Presentation	VIIT	2 nd Prize
8.	B. Goutami	14.09.2024 to 15.10.2024	Poster Presentation	VIIT	1 st Prize
9.	T. Ajay	14.09.2024 to 15.10.2024	Live Models. Parna App	VIIT	3 rd Prize
10.	SK. Sahisha Bhanu	11.05.2025 to 16.06.2025	Workshop on Android	VIEW	Merit Certificate

c. DEPARTMENT OF INFORMATION TECHNOLOGY (IT)

Table 9.7.29: Inter-institution events information technology

S. No.	Academic Year			Students Participants	
3	2023-24			25	
4	2024-25			15	
S. No.	Date	Student Name	Event	Prize Awarded	Venue

1.	15-02-2025 to 16-03-2025	Ch.Lahari	Intra Mural Competition KHO-KHO	Participation	Vignans University
2.	15-02-2025	P. Deepak	Intra Mural	Participation	VVIT

Table 9.7.30: Details of student participation in CAY m2 (2024-25)

	To 16-03-2025		Competition	(Kho-Kho)	
3.	03-03-2025	G.Sneha Latha	Machine Learning workshop	Participation	KHIT
4.	03-03-2025	R.S. Teja Sri	Machine Learning workshop	Participation	KHIT
5.	03-03-2025	M. Pavan Kumar.	Machine Learning workshop	Participation	KHIT
6.	03-03-2025	N. Nagaraju	Machine Learning workshop	Participation	KHIT
7.	03-03-2025	P. Adarsh	Machine Learning workshop	Participation	KHIT

Table 9.7.31: Details of student participation in CAY m3 (2023-24)

S. No.	Date	Student Name	Event	Prize Awarded	Venue
1	02-03-2024 to 4-04-2024	D. Rakesh	Central Zone For Women, Kho-Kho Team	1 st Position	VVIT
2	02-03-2024 to 4-04-2024	K. Sai Koti	Central Zone for Women, Throw Ball Team	3 rd Position	VVIT
3	30-03-2024 To 31-04-2024	N. Dheeraj	Smart indiaHackathon	Participant	VIIT
4	10-12-2023	P. Anitha	Walk for Future Smiles	Participant	UCE
5	10-12-2023	SH. Shaziya	Walk for Future	Participant	UCE
			Smiles		

10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

Total Marks 120.00

10.1 Organization, Governance and Transparency (40)

Total Marks 40.00

10.1.1 State the Vision and Mission of the Institute (5)

Institute Marks : 5.00

Vision :

To become reputed institution of Engineering & Management programs, Producing competitive, ethical & socially responsible professionals.

Mission :

IM1: Provide quality education through best teaching and learning practices of committed staff.

IM2: Establish a continuous interaction, participation and collaboration with industry to provide solutions.

IM3: Provide the facilities that motivate/encourage faculty and students in research and development activities.

IM4: Develop human values, professional ethics and interpersonal skills amongst the individuals.

10.1.2 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

Institute Marks : 10.00

MNK Educational Society started NRI Institute of Technology in 2008 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 (formerly Local Management 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 Board (formerly 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.

10.1.3 Decentralization in working and grievancedressal mechanism (10)

Institute Marks : 10.00

NRI Institute of Technology 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. The principal is assisted by Academic Council and IQAC in all the matters of interest and holds review meetings on monthly basis and decisions are collectively taken on the issues pertaining to improvement and functioning of the Institute. In-turn the Heads of the Departments conduct monthly faculty meetings within respective departments and obtain the details pertaining to academic and non-academic and any student related problems. Also, all the faculty members are student counselors and they are in constant touch with the students through weekly meetings. The information collected by them is passed on to HODs who in turn appraise the HODs and the principal. Thus, the administration is transparent and trust-worthy and facilitates smooth conduct and function of the Institute. All purchases are handled by a Purchase committee who receive requisitions from various departments and the committee evaluates the need, timeframe of supply, budgetary provisions and accordingly processes the purchases requirements. The Committee is headed by Director and has senior faculties and administrators as members. The principal in turn briefs the management about the purchases to be made and all such proposals are finally put up in Governing Council meetings for approval.

ARIOS INSTITUTE LEVEL ADMINISTRATIVE COMMITTEES AND COORDINATORS FOR TAKING ADMINISTRATIVE DECISIONS

S.No.	Committees/Cells	Position	Name of the Staff
1.	COLLEGE ACADEMIC COUNCIL	Coordinator	Dr. Dola Sanjay S
2.	INTERNAL QUALITY ASSURANCE CELL	Coordinator	Dr. B. Saidaiyah
3.	GRIEVANCE REDRESSAL COMMITTEE	Coordinator	Mrs.M.Junitha
4.	ALUMNI CELL	Coordinator	Mr.P.Ravi Kumar
5.	ANTI-RAGGING COMMITTEE (ARC)	Coordinator	Dr.Zia Ur Rehman
6.	DISCIPLINARY COMMITTEE	Coordinator	Dr.Zia Ur Rehman
7.	EXAMINATION CELL	Coordinator	Dr.J.Krishna Kishore
8.	LIBRARY COMMITTEE	Coordinator	Dr.SK.Rasool
9.	INTELLECTUAL PROPERTY RIGHT CELL	Coordinator	Dr.K.Chandra Mouli
10.	INFRASTRUCTURE PLANNING & MAINTENANCE COMMITTEE	Coordinator	Dr.K.Chandra Mouli
11.	STAFF SELECTION COMMITTEE	Coordinator	Dr. Dola Sanjay S
12.	FACULTY DEVELOPMENT PROGRAMS	Coordinator	Dr. Dola Sanjay S
13.	WEB APPLICATION DEVELOPMENT COMMITTEE	Coordinator	Mr.J. Ramu
14.	INNOVATION CELL	Coordinator	Dr.K.Srihari Rao
15.	NEWSLETTER COMMITTEE	Coordinator	Dr.Y.V.Ranga Rao
16.	TRAINING AND PLACEMENT COMMITTEE	Coordinator	Mr.G.Durga Naresh
17.	LADY ADVISORY COMMITTEE / INTERNAL COMPLAINT COMMITTEE	Coordinator	Mrs.M.Junitha
18.	ORGANIZATIONAL EVENTS AND NATIONAL IMPORTANCE	Coordinator	Dr.K.Srinivasu
19.	NSS	Coordinator	Mr.P. Ravi Kumar
20.	AUTOMATION CELL	Coordinator	Mr.K.Krishna Pratap
21.	TRASPORT COMMITTEE	Coordinator	Dr.K.Chandra Mouli
22.	TIME TABLE COMMITTEE	Coordinator	Mrs.K.Sujatha
23.	SC/ST Cell	Coordinator	Dr.V.Nagamalleswari
24.	NAAC COORDINATOR	Coordinator	Dr. B. Saidaiyah
25.	MEDICAL CELL	Coordinator	Mr.P.Manohar Rao
26.	CODING CLUB	Coordinator	Dr.J.Chandra Sekhar
27.	STUDENTS AMENITIES COMMITTEE (CANTEEN, STATIONARY AND STORES)	Coordinator	Dr.K.Srinivasa Rao
28.	SPORTS COMMITTEE	Coordinator	Mrs.K.Karuna Kumari
29.	LITERARY AND CULTURAL COMMITTEE	Coordinator	Dr.G.Krishan Kumari
30.	MUSIC CLUB COMMITTEE	Coordinator	Dr.G.Krishan Kumari
31.	PRESS AND MEDIA COMMITTEE	Coordinator	Mr.P.Ravi Kumar
32.	BOYS HOSTEL COMMITTEE	Coordinator	Mr.P.Ravi Kumar
33.	GIRLS HOSTEL COMMITTEE	Coordinator	Dr.G.Krishan Kumari
34.	YOGA CLUB	Coordinator	Mr.G.Suresh

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 decentralisation, committees such as department advisory board and program assessment and quality improvement committees are formed at department level.

Grievance Redressal Cell

The Grievance Redressal Cell (GRC) aims to look into the complaints lodged by any student and redress it as per requirement. The students can state their grievance regarding any academic and non- academic matter within the campus through the online and grievance/ suggestion box. The institution aims at solving the grievances of the students within stipulated academic and non- academic matter within the campus through the grievance/ suggestion box. The institution aims at solving the grievances of the students within stipulated time.

Objectives:

The Grievance Redressal Cell has been developed to settle the grievances of the students and other stakeholders within a reasonable time period for further strengthening the bond of the students with the institution by providing them with all kind of facilities to a satisfaction level for maintaining a convenient ambience of academic teaching and learning.

S.No.	Name of the Member	Designation	Position
1.	Dr. Dola Sanjay S	Principal	Chairman
2.	Mrs.MM.Junitha	Professor ECE	Convener
3.	Mrs G.Haymavathi	Asst.Prof. CE	Member
4.	Mrs P.Anupama	Asst.Prof. MBA	Member
5.	Mrs K.Suryaprabha	Asst.Prof. S&H	Member
6.	Mrs V.Harika	Asst.Prof. EEE	Member
7.	Mrs B.Sujatha	Asst.Prof. CSE	Member
8.	Mrs D.Devika	Asst.Prof. IT	Member
9.	Mrs C.Amala	Asst.Prof. ECE	Member
10.	Mrs M.Sirisha	Asst.Prof. office	Member

10.1.4 Delegation of financial powers (10)

Institute Marks : 10.00

The Governing Body of NRI Institute of Technology is resolved that to enhancement of financial power to Principal and all Head of the Departments.

- a) Delegation of financial power to the Principal upto **Rs.25,000/-** which was sanctioned in the minutes of the Governing body meeting held on 10.12.2015 will continue. No changes.
- b) On the recommendations by the Principal, it is resolved to enhance delegation of financial power to Head of Departments, from existing to Rs.3,000/- to Rs.5,000/- which was sanctioned in the minutes of the Governing body meeting held on 10.12.2015 other contents unaltered. Financial powers are delegated to the Principal of the institute and principal is the one of the signing authorities for financial transactions. Provision of petty cash of Rs. 5,000 is also made with the Principal and head of departments also can make expenses using Imprest cash with the approval of the principal.

Petty Cash Utilization					
2022-23		2023-24		2024-25	
Sanctioned Amount	Utilization Amount	Sanctioned Amount	Utilization Amount	Sanctioned Amount	Utilization Amount
Rs.60,000	Rs.59,800	Rs.60,000	Rs.58,625	Rs.60,000	Rs.58,920

A healthy trend of increasing utilization and better imprest cash management. It indicates that the organization is moving towards **optimized fund usage**, with decreasing idle cash balances—an indicator of sound financial governance.

10.1.5 Transparency and availability of correct/unambiguous information in public domain (5)

Institute Marks : 5.00

1. Unambiguous information is displayed on all general notice boards including department notice boards, Center for information, training and placement cell (TPC), 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.nriit.ac.in

S.No	Document Name	URL of document on website
1.	Vision, mission, goals and core values of the institute	https://www.nriit.ac.in/vmqp
2.	Admissions	https://www.nriit.ac.in/admissions
3.	AICTE Approval Letters	https://www.nriit.ac.in/aicte
4.	Mandatory disclosure	https://www.nriit.ac.in/mandatory
5.	Stakeholders Feedback	https://www.nriit.ac.in/feedback
6.	AICTE essentials	https://www.nriit.ac.in/aicte
Faculty Profile		
7.	Department of CE	https://www.nriit.ac.in/civil
8.	Department of ECE	https://www.nriit.ac.in/ece
9.	Department of CSE	https://www.nriit.ac.in/cse
10.	Department of IT	https://www.nriit.ac.in/it
11.	Department of DS	https://www.nriit.ac.in/ds
12.	Department of AI&ML	https://www.nriit.ac.in/ai&ml
13.	Department of VLSI	https://www.nriit.ac.in/vlsi
14.	Department of Management Studies	https://www.nriit.ac.in/mba
15.	Department of MCA	https://www.nriit.ac.in/mca
Departmental profile		
16.	Department of CE	https://www.nriit.ac.in/civil
17.	Department of ECE	https://www.nriit.ac.in/ece
18.	Department of CSE	https://www.nriit.ac.in/cse
19.	Department of IT	https://www.nriit.ac.in/it
20.	Department of DS	https://www.nriit.ac.in/ds
21.	Department of AI&ML	https://www.nriit.ac.in/ai&ml
22.	Department of VLSI	https://www.nriit.ac.in/vlsi
23.	Department of Management Studies	https://www.nriit.ac.in/mba
24.	Department of MCA	https://www.nriit.ac.in/mca
Examination Detail		
25.	Academic calendars	https://www.nriit.ac.in/examination.calendars
26.	Academic Regulations	https://www.nriit.ac.in/examination.regulations
27.	Course Structures	https://www.nriit.ac.in/examination.coursestructure
28.	Exam Time Tables	https://www.nriit.ac.in/examination.timetables
29.	Students Result	https://www.nriit.ac.in/examination.results
30.	Admission Details	https://www.nriit.ac.in/examination.admissions

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10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30)

Total Marks 30.00

Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years

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)

Table 1 - CFY 2024-25

Total Income 116547326				Actual expenditure(till...): 137419951			Total No. Of Students 3052
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
115604700	0	0	942626	126959308	10460643	0	45026.20

Table 2 - CFYm1 2023-24

Total Income 82595601				Actual expenditure(till...): 134828137			Total No. Of Students 2448
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
81771900	0	0	823701	103166644	31661493	0	55076.85

Table 3 - CFYm2 2022-23

Total Income 76603457				Actual expenditure(till...): 97726147			Total No. Of Students 1796
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
75754700	0	0	848757	80347772	17378375	0	54413.22

Table 4 - CFYm3 2021-22

Total Income 81231799				Actual expenditure(till...): 77257289			Total No. Of Students 1724
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
80494155	0	0	737644	57098762	20158527	0	44812.81

Items	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till	Budgeted in 2021-22	Actual Expenses in 2021-22 till
Infrastructure Built-Up	27000000	26773762	27000000	24821748	28000000	26794817	30900000	30691794
Library	1900000	1783455	1750000	1586227	2000000	1863509	3000000	2517321
Laboratory equipment	6250000	6179775	6700000	6554423	7900000	7664763	9000000	8440395
Laboratory consumables	1500000	1386884	525000	501236	325000	299313	1000000	940224
Teaching and non-teaching staff salary	57000000	55268495	45000000	43616813	39000000	36158250	24000000	23706097
Maintenance and spares	2600000	2454574	5300000	5138525	7300000	7095500	3250000	3147034
R&D	280000	260000	240000	220000	190000	170000	160000	145000
Training and Travel	1000000	878661	510000	506353	750000	696876	450000	404309
	120000	100000	80000	70000	60000	50000	40000	30000
Others, specify	65000	60000	55000	50000	45000	40000	30000	25000
Total	97715000	95145606	87160000	83065325	85570000	80833028	71830000	70047174

10.2.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

S. No.	Assessment Year	Budget Allocated	Actual Expenses	Adequate
1	2024 - 25	97715000	95145606	Yes
2	2023 - 24	87160000	83065325	Yes
3	2022 - 23	85570000	80833028	Yes
4	2021 - 22	71830000	70047174	Yes

- **2021-22:** Out of ₹71.83 crores allocated, ₹70.05 crores were spent, showing adequate utilization.
- **2022-23:** With a budget of ₹85.57 crores, ₹80.83 crores were utilized, and the funds were adequate.
- **2023-24:** An allocation of ₹87.16 crores resulted in actual spending of ₹83.06 crores, confirming adequacy.
- **2024-25:** Out of ₹97.71 crores, ₹95.15 crores were expended, again marking the utilization as adequate.

Conclusion: Across all four years, actual expenses remained close to allocations, indicating consistent and adequate budget utilization.

10.2.2 Utilization of allocated funds (15)

Institute Marks : 15.00

S. No.	Assessment Year	Budget Allocated	Actual Expenses	% Utilized
1	2024 - 25	97715000	95145606	97 %
2	2023 - 24	87160000	83065325	95 %
3	2022 - 23	85570000	80833028	94 %
4	2021 - 22	71830000	70047174	98 %

- **2021-22:** Out of ₹71.83 crores allocated, ₹70.05 crores were spent, achieving **98% utilization**.
- **2022-23:** With a budget of ₹85.57 crores, ₹80.83 crores were utilized, reflecting **94% utilization**.
- **2023-24:** An allocation of ₹87.16 crores led to actual expenses of ₹83.06 crores, resulting in **95% utilization**.
- **2024-25:** From ₹97.71 crores allocated, ₹95.15 crores were spent, showing **97% utilization**.

Conclusion: Budget utilization has consistently remained high (94–98%), indicating effective financial management and optimal use of allocated resources.

10.2.3 Availability of the audited statements on the institute's website (5)

Institute Marks : 5.00

https://drive.google.com/file/d/1Vx3hoCBnWwTbCxITbq7hSPBP-BJzOMXM/view?usp=drive_link, https://drive.google.com/file/d/1TnliEW0kYh9HbJF6fst6FP83CPilLhfq/view?usp=drive_link, https://drive.google.com/file/d/189zyX6W8MFifyM0XxSlmVvnHzsWk51m2/view?usp=drive_link, [\(https://drive.google.com/file/d/1B5BgbgbHWt1ciFqkpgtX6liWOBOXKsol/view?usp=drive_link\)](https://drive.google.com/file/d/1B5BgbgbHWt1ciFqkpgtX6liWOBOXKsol/view?usp=drive_link)

10.3 Program Specific Budget Allocation, Utilization (30)

Total Marks 30.00

Institute Marks :

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)

Table 1 :: CFY 2024-25

5065000		Actual expenditure (till...): 4755000		Total No. Of Students 735
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
2750000	2315000	2540000	2215000	6469.39

Table 2 :: CFYm1 2023-24

5740000		Actual expenditure (till...): 5365000		Total No. Of Students 545
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
2820000	2920000	2700000	2665000	9844.04

Table 3 :: CFYm2 2022-23

6065000		Actual expenditure (till...): 5428000		Total No. Of Students 496
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
3010000	3055000	2708000	2720000	10943.55

Table 4 :: CFYm3 2021-22

4643000		Actual expenditure (till...): 3933000		Total No. Of Students 459
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
3008000	1635000	2506000	1427000	8568.63

Items	Budgeted in 2024-25	Actual Expenses in 2024-25 till	Budgeted in 2023-24	Actual Expenses in 2023-24 till	Budgeted in 2022-23	Actual Expenses in 2022-23 till	Budgeted in 2021-22	Actual Expenses in 2021-22 till
Laboratory equipment	2700000	2500000	2400000	2300000	3000000	2700000	3000000	2500000
Software	50000	40000	420000	400000	10000	8000	8000	6000
Laboratory consumable	850000	800000	280000	275000	160000	150000	400000	270000
Maintenance and spares	915000	900000	2200000	2000000	2500000	2200000	1000000	950000
R & D	130000	125000	140000	120000	100000	90000	70000	60000
Training and Travel	370000	350000	275000	250000	280000	270000	150000	135000
	50000	40000	25000	20000	15000	10000	15000	12000
Total	5065000	4755000	5740000	5365000	6065000	5428000	4643000	3933000

10.3.1 Adequacy of budget allocation (10)

Institute Marks : 10.00

Sl. No.	Assessment Year	Budget Allocated in Lakhs	Actual Expenditure in Lakhs	Adequate / Not Adequate
1	2024-25	5065000	4755000	Adequate
2	2023-24	5740000	5365000	Adequate
3	2022-23	6065000	5428000	Adequate
4	2021-22	4643000	3933000	Adequate

- **2021-22:** Out of ₹46.43 lakhs allocated, ₹39.33 lakhs were spent, and the budget was **adequate**.
- **2022-23:** With a budget of ₹60.65 lakhs, ₹54.28 lakhs were utilized, marked as **adequate**.
- **2023-24:** An allocation of ₹57.40 lakhs resulted in actual spending of ₹53.65 lakhs, proving **adequate**.
- **2024-25:** From ₹50.65 lakhs allocated, ₹47.55 lakhs were expended, again **adequate**.

Conclusion: In all four years, expenditure remained close to the allocated budget, confirming that the provisions were **adequate and well-utilized**.

10.3.2 Utilization of allocated funds (20)

Institute Marks : 20.00

Sl. No.	Assessment Year	Budget Allocated in Lakhs	Actual Expenditure in Lakhs	% Utilized
1	2024-25	5065000	4755000	94 %
2	2023-24	5740000	5365000	93 %
3	2022-23	6065000	5428000	89 %
4	2021-22	4643000	3933000	85 %

- **2021-22:** Out of ₹46.43 lakhs allocated, ₹39.33 lakhs were spent, showing **85% utilization**.
- **2022-23:** With a budget of ₹60.65 lakhs, ₹54.28 lakhs were utilized, reflecting **89% utilization**.
- **2023-24:** An allocation of ₹57.40 lakhs led to actual spending of ₹53.65 lakhs, achieving **93% utilization**.
- **2024-25:** From ₹50.65 lakhs allocated, ₹47.55 lakhs were spent, resulting in **94% utilization**.

Conclusion: Utilization has steadily improved from **85% in 2021-22 to 94% in 2024-25**, indicating better financial efficiency and effective use of allocated budgets over time.

10.4 Library and Internet (20)

Total Marks 20.00

10.4.1 Quality of learning resources (hard/soft) (10)

Institute Marks : 10.00

The Learning Resource Center, the Central Library of NRI Institute of Technology with its state-of-the-art facilities and excellent resources play 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 Library Management System NEW GEN LIB Software is used to manage different functions of library for improving accessibility to students. Institute Central Library is using commercial software as well as NEW GEN LIB Software for Automation of Library Services. With NEW GEN LIB retrieval of information becomes easy and even a catchy phrase in the description of the catalogued item can be used for searching. NEW GEN LIB supports flexible workflow to cover activities related to acquisition of books, serials control, and funds monitoring.

Learning resources available in Library

Learning Resources	Number of resources
Books	19462
E Journals	1014
e-Journals/e-Books	5000
List of print journals/Magazine	95
List of Newspapers	07
CD/DVD	1862

Expenditure in last three years on learning resources

Year	No of New Titles added	No of new volumes added	Expenditure
CFY -2022-23	45	183	72,944.00
CFY-2023-24	29	209	1,89,198.00
CFY- 2024-25	47	127	1,27,780.00
CFY- 2025-26	16	95	4,26,623.00

Expenditure in last three years on Journals Subscription

Year	Number of Journals	Expenditure
CFY -2022-23	92	2,80,750.00
CFY-2023-24	108	2,71,658.00
CFY- 2024-25	72	2,56,680.00
CFY- 2025-26	72	2,56,680.00

Institute Library has made following online resources available to the staff and students.

Various online resources available in Library

DELNET	Access Millions of Networked Library http://164.100.247.26/ (http://164.100.247.26/)	
DELNET	Resources through DELNET, 2,20,00,000+ Books available for loan, 5,000+ Full-text E-journals, 1,00,000+Thesis/Dissertations	
NDLI	Includes all disciplines	https://ndl.iitkgp.ac.in/

LIBRARY PHYSICAL AREA

1	Carpet area of Library	755.00 Sq.M
2	Reading Space	319.35 Sq. M
3	E- Library Space	58.61 Sq .M
4	Reference Section	58.61 Sq. M
5	Circulation Counter	56.06 Sq. M
6	Librarian Chamber	17.03 Sq. M

7	Text Book Section	245.34 Sq. M
8	E- Library seating capacity	25
9	Number of Seats in reading space	150
10	Number of Users Per day	250

LIBRARY HOLDINGS

S No.	Items	Total Volumes	Total Titles
Books			
1	Books	19462	3763
2	Book Bank Books	781	133
	Grand Total:	20243	3896
Journals			
1	Journals and Magazines	95	
2	Magazines Technical	5	
3	Non-Technical	6	
Project Records			
1	Project Records (All Departments including MBA)	1776	
CDs			
1	CDs Records (All Departments including MBA)	1862	
Digital Library & Membership			
	Digital Library systems	25	
	Seating Capacity	25	
Sources available through Digital Library			
1	Source	available	http://www.delnet.nic.nic (http://www.delnet.nic.nic/)
2	DELNET	e-books -130003 e-journals - 14377	Login: aprnriit
3	NDLI	e-books 4123	Login: grsailaja123@gmail.com (mailto:grsailaja123@gmail.com)
4	NPTEL Videos	1032 videos available	25 Departments

Book Purchase System Process

Library books requirement is collected through a book requisition form which is made available to all faculty through the google drive link. List of books requested by faculty are send for quotation to the supplier, after that purchase order is placed to the supplier with Head of Department and Principal approval.

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:

- 9000 + 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. Question point service, "Ask a Librarian" is a unique online service available where queries and reference questions from students are responded within 24 hours. Additional facilities created in the library for improving accessibility and support to students for self-learning.

- Wi-Fi accessible across the Library.
- Library e-resources Remote Access (off-campus access) through Knimbus remote access platform.
- User Training, Sensitization and Information Literacy programs.
- Research Data Management, Publishing support, Style Manua
- Workshops/Programs on research methods Tools.
- Plagiarism Check tools (Turnitin) and services.
- Institutional Repository Dspace for faculty publication

- Faculty publication platform Vidwan
- Print, Scan Services.
- Access to previous year question papers and syllabus

Reprography Machine, Scanner and Bar Code printing facility

10.4.2 Internet (10)

Institute Marks : 10.00

Name of the Internet provider	BSNL & Blue web
Available band width	500 MBPS & 100 MBPS
WiFi availability	Yes
Internet access in labs, classrooms, library and offices of all Departments	Internet access are available in all labs, classrooms, library and offices of all Department
Security arrangements	Mikrotek CCR 1007 Cloud Rutter with firewall and Hot spot

**Annexure I
(A) PROGRAM OUTCOME (POs)**

Engineering Graduates will be able to:

- 1. Engineering Knowledge :** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. Problem Analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design/development of solutions:** 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.
- 4. 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.
- 5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6. 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 engineering practice.
- 7. 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.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10. 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.
- 11. 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.
- 12. 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.

(B) PROGRAM SPECIFIC OUTCOME (PSOs)

PSO1	Develop and deploy software solutions using computing skills and modern tools to meet industry and societal needs.
PSO2	Apply computational principles and advanced tools in collaboration with academia, industry and research to deliver efficient solutions.
PSO3	Pursue emerging technologies and research with professionalism and ethical leadership, fostering lifelong learning and societal impact.

Declaration

The head of the institution needs to make a declaration as per the format given -

- I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines inforce as on date and the institutes shall fully abide by them.
- It is submitted that information provided in this Self Assessment Report is factually correct.
- I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA. In case, any false statement/information is observed during pre-visit, visit, postvisit and subsequent to grant of accreditation.

Head of the Institute
Name : Dr Dola Sanjay S
Designation : Professor and Principal
Signature :



Seal of The Institution :



Place : Guntur
Date : 27-09-2025 19:19:02