PACE Institute of Technology&Sciences

SELF ASSESSMENT REPORT(TIER - I) FOR Computer Science & Engg.

Part A : Institutional Information

1 Name and Address of the Institution

PACE Institute of Technology&Sciences,
NH-5,Near valluramma temple ,valluru village tangutur mandal,prakasam district ,andhra pradesh,pin-523272

2 Name and Address of Affiliating University

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

3 Year of establishment of the Institution:

2008

4 Type of the Institution:

○ Institute of National Infortance	◉ Autonomous
○ University	○ Any other(please specify)
○ Deemed University	

5 Ownership Status:

○ Central Government	☐ Trust
○ State Government	☑ Society
○ Government Aided	☐ Section 25 Company
○ Self financing	☐ 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

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	No	18	Eligible but not applied	--	--	No	2
COMPUTER SCIENCE AND ENGINEERING	UG	2008	2008	60	Yes	180	Granted accreditation for 3 years for the period (specify period)	2020	2023	Yes	4

Sanctioned Intake for Last Five Years for the COMPUTER SCIENCE AND ENGINEERING	
Academic Year	**Sanctioned Intake**
2022-23	180
2021-22	180
2020-21	180
2019-20	180
2018-19	180
2017-18	120

8 Programs to be considered for Accreditation vide this application:

S No	Level	Discipline	Program
1	Under Graduate	Engineering & Technology	Civil Engg.
2	Under Graduate	Engineering & Technology	Computer Science & Engg.
3	Under Graduate	Engineering & Technology	Electronics & Communication Engg.
4	Under Graduate	Engineering & Technology	Mechanical Engg.
5	Under Graduate	Engineering & Technology	Electrical and Electronics Engineering

9 Total number of employees

A. Regular* Employees (Faculty and Staff):

Items	2022-23		2021-22		2020-21	
	MIN	MAX	MIN	MAX	MIN	MAX
Faculty in Maths, Science & Humanities teaching in engineering program (Female)	27	30	24	26	20	22
Non-teaching staff (Male)	125	135	130	138	119	126
Non-teaching staff (Female)	55	63	40	50	24	27
Faculty in Engineering (Male)	210	223	208	215	206	226
Faculty in Engineering (Female)	76	83	76	82	63	67
Faculty in Maths, Science & Humanities teaching in engineering program (Male)	51	55	54	58	58	61

B. Contractual* Employees (Faculty and Staff):

Items	2022-23		2021-22		2020-21	
	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 teaching in engineering Programs (Male)	0	0	0	0	0	0
Faculty in Maths, Science & Humanities teaching in engineering Programs (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	☑ Shift1	☐ Shift2
Engineering and Technology- PG	☑ Shift1	☐ Shift2
Engineering and Technology- Polytechnic	☐ Shift1	☑ Shift2
MBA	☑ Shift1	☐ Shift2
MCA	☐ Shift1	☐ Shift2

Engineering and Technology- UG Shift-1

Course Name	2022-23	2021-22	2020-21
Total no. of Boys	2813	2675	2394
Total no. of Girls	1708	1505	1372
Total	**4521**	**4180**	**3766**

Engineering and Technology- PG Shift-1

Course Name	2022-23	2021-22	2020-21
Total no. of Boys	41	54	82
Total no. of Girls	35	34	43
Total	**76**	**88**	**125**

Engineering and Technology- Polytechnic Shift-2

Course Name	2022-23	2021-22	2020-21
Total no. of Boys	659	609	567
Total no. of Girls	171	124	118
Total	**830**	**733**	**685**

Engineering and Technology- MBA Shift-1

Course Name	2022-23	2021-22	2020-21
Total no. of Boys	164	155	166
Total no. of Girls	100	89	113
Total	**264**	**244**	**279**

11 Vision of the Institution:

Our vision is to impart futuristic technical education to transform the students into technically superior, ethically strong, and self-disciplined to serve the nation as a valuable resource.

12 Mission of the Institution:

M1	To inculcate quality education by implementing innovative teaching-learning methods and state-of-the-art facilities.
M2	To enrich the intellectual know-how, credibility, and integrity of the students to necessitate industry
M3	To recognize as scholarly and influential leaders in engineering education and to develop human power with creativity and passion for the advancement of future nations.

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

Head of the Institution	
Name	Dr. G V K Murthy
Designation	Principal
Mobile No.	9703020577
Email ID	principal@pace.ac.in

NBA Coordinator, If Designated

Name	Dr. T R Chaitanya
Designation	Professor in Dept. of CSE
Mobile No.	9581456542
Email ID	chaitanya_tr@pace.ac.in

PART B: Criteria Summary

Critera No.	Criteria	Total Marks	Institute Marks
1	VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES	50	50.00
2	PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES	100	100.00
3	COURSE OUTCOMES AND PROGRAM OUTCOMES	175	175.00
4	STUDENTS' PERFORMANCE	100	83.87
5	FACULTY INFORMATION AND CONTRIBUTIONS	200	177.24
6	FACILITIES AND TECHNICAL SUPPORT	80	80.00
7	CONTINUOUS IMPROVEMENT	75	75.00
8	FIRST YEAR ACADEMICS	50	46.45
9	STUDENT SUPPORT SYSTEMS	50	50.00
10	GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES	120	120.00
	Total	**1000**	**957**

Part B : Criteria Summary

1 VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (50)

Total Marks 50.00

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	**Our vision is to impart futuristic technical education to transform the students into technically superior, ethically strong, and self-disciplined to serve the nation as a valuable resource.**
Mission of the institute	**M1** To inculcate quality education by implementing innovative teaching-learning methods and state-of-the-art facilities. **M2** To enrich the intellectual know-how, credibility, and integrity of the students to necessitate industry **M3** To recognize as scholarly and influential leaders in engineering education and to develop human power with creativity and passion for the advancement of future nations.
Vision of the Department	To prosper the students as a competent professionals in the field of Computer Science and Engineering for serving industry and society as a valuable human resource.

Mission of the Department

Mission No.	Mission Statements
M1	To impart quality education by implementing state-of-the-art teaching-learning methods to enrich the academic competency..
M2	To inculcate in the students to pursue careers in industry, academic and research.
M3	To enrich the aptitude of the students in Computer Science and Engineering to face real world problems..
M4	To foster computing skills with an emphasis on professional competency, interpersonal development and ethics.

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

Total Marks 5.00

Institute Marks : 5.00

PEO No.	Program Educational Objectives Statements
PEO1	To Gain Successful Professional career in IT industry as an efficient software engineer.
PEO2	To Succeed in Master/Research programmes by gaining knowledge on emerging technologies in the field of Computer Science & Engineering
PEO3	To Grow as a responsible computing professionals in their own areas of interest with various computing skills and ethics through lifelong learning approach to meet societal needs.

1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (15)

Total Marks 15.00

Institute Marks : 15.00

The Vision, Mission and PEO statements are displayed in various places enabling clear dissemination among internal stakeholders (i.e., Management, Staff members, and Students) and external stakeholders (i.e. Parents, Employers, Alumni… etc). These are explained to stakeholders at different interactive sessions.

Adequacy in respect of publication & dissemination

The department Vision, Mission and PEO statements are available on the college website.

The department magazine which includes Vision, Mission and PEO statements that are disseminated to all stakeholders and placed on the website for clear understanding. The lab manuals and course files also contain all these statements.

The Vision, Mission and PEO statements are displayed in the HoD Chamber, staff rooms, classrooms, laboratories, department library, corridors, and notice boards in order to spread the statements to stakeholders easily.

Process of dissemination among stakeholders

Students: An awareness program is conducted at the time of the induction program for the students to make them aware of the Vision, Mission, and PEO statements. Students are continuously motivated towards the achievement of Vision.

Staff: Newly joined staff members will be inducted Vision, Mission, and PEO statements of the department. Existing staff guides the new staff to achieve the Vision through continuous improvement.

Parents: The Vision, Mission and PEO statements are explained clearly to parents during the induction program.

Alumni Members: The Vision, Mission and PEO statements are explained to alumni members during alumni meetings, organized at regular intervals.

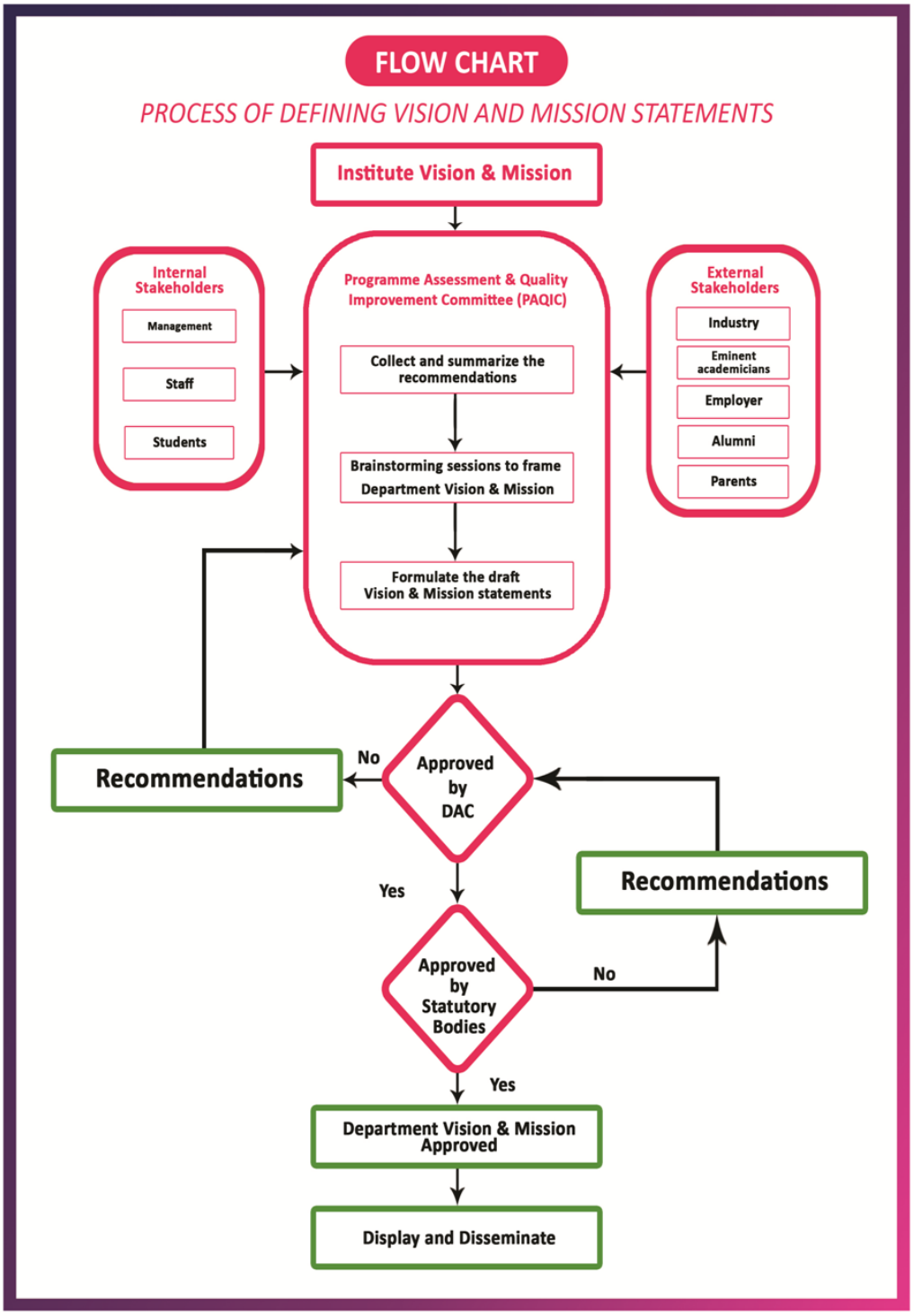
Employers: When employers visit the campus for campus placements or when the placement cell approaches the employers for placement activity, the department brochure contains the Vision, Mission and PEO statements will be shared to them during company visits by placement officer.

1.4 State the process for defining the Vision and Mission of the Department, and PEOs of the program (15)

Total Marks 15.00

Institute Marks : 15.00

The Process involved in defining the Vision and Mission of the Department



The Department's vision and mission are found through a consultative process involving the stakeholders, faculty of the department, and the Advisory Board members.

1.Department Vision is a derivative component of institute Vision. Department Mission statements express the steps to achieving the department's Vision.

2.The internal (i.e: Management, Staff members, Students) and external stakeholders (i.e: Parents, Employers, Alumni etc) are involved in framing or reframing the Vision and Mission of the department.

3.Programme Assessment and Quality Improvement Committee (PAQIC) collects and summarizes all the stakeholders' recommendations, referring to the department Vision and Mission of reputed institutions, professional bodies, and national and international organizations. The PAQIC will also look into areas to be addressed and resources availability.

4.Discussions and brainstorming sessions will be made among the PAQIC members to arrive at draft Vision and Mission statements.

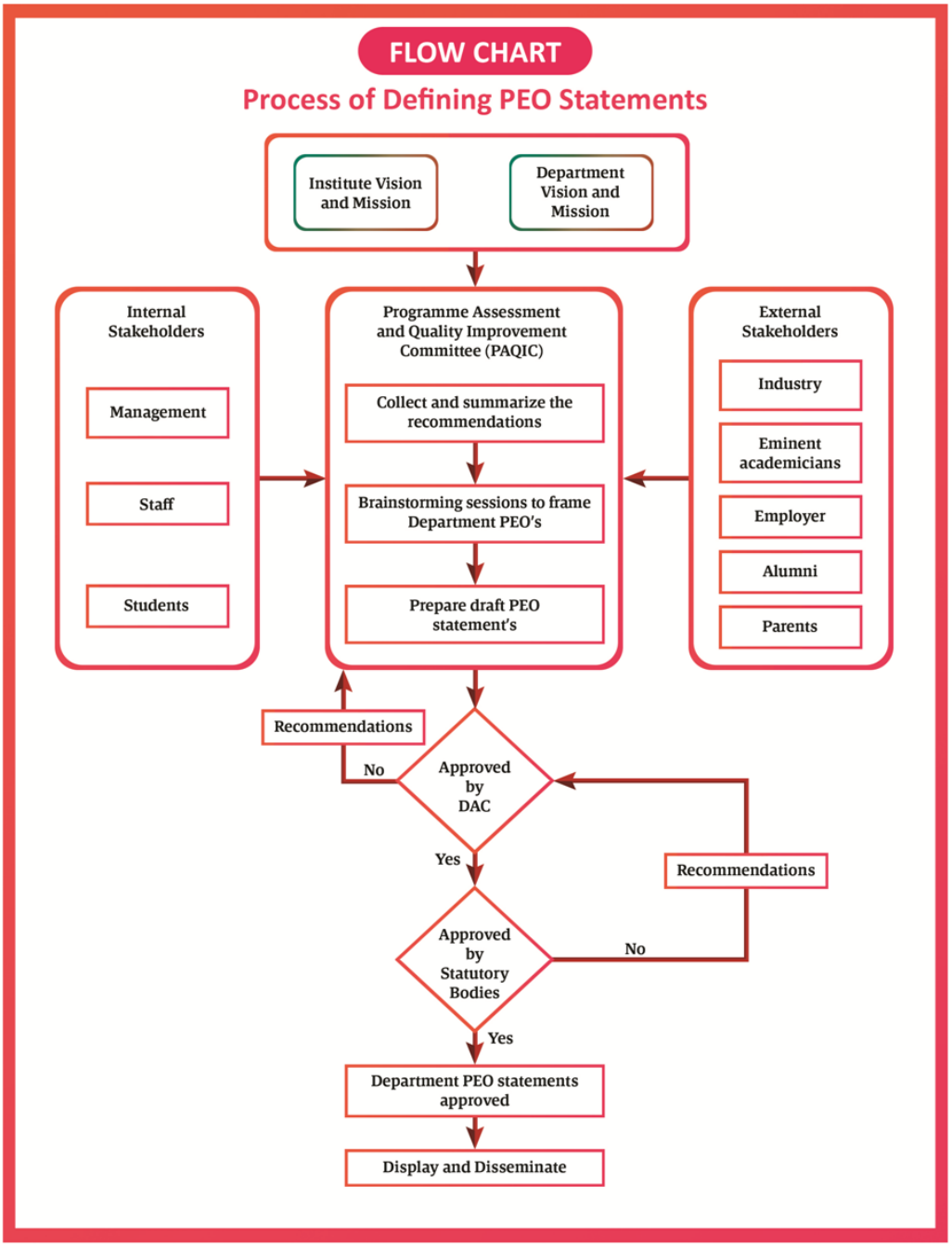
5.The PAQIC will take this forward to the Department Advisory Committee members for suggestions and PAQIC will incorporate all feasible recommendations.

6.The accepted views are analyzed and reviewed to check the consistency with the Vision and Mission of the institute.

7.The department Vision and Mission statements will be presented to the statutory bodies for final approval.

8.The approved Vision & Mission statements will be disseminated among all stakeholders.

The process involved in defining the PEOs of the program



The Program Educational Objectives are established through a consultation process involving the core constituents such as students, alumni, industry, faculty, and employers. The PEOs are established through the following process steps:

1. Program Educational Objectives (PEOs) describe the career and professional accomplishments that the program is preparing graduates to achieve after 3-5 years of completing the program.
2. Department PEO statements are a derivative component of the institute Vision, Mission and department Vision, Mission.
3. The internal (i.e. Management, Staff members, Students) and external stakeholders (i.e. Parents, Employers, Alumni.. etc) are involved in framing or reframing the PEOs of the department.
4. Alumni, Employer suggestions, and employment opportunities available in present and future are considered for framing the PEO statement.
5. Discussions and brainstorming sessions will be made among the PAQIC members to frame PEO statements.
6. The PAQIC send thePEO statements to DAC members for approval.
7. DAC verifies the correlation between the PEOs and Mission statements.
8. After making the feasible modifications suggested by DAC, the Mission statements are passed to statutory committees for approval.
9. The approved PEO statements are disseminated to all stakeholders.

1.5 Establish consistency of PEOs with Mission of the Department (10) Total Marks 10.00

Institute Marks : 10.00

PEOs with Mission statement mapping - Justification	
PEO1	PEO1 which concerned with the successful career in the IT industry map substantially with M1 and M4. These Mission statements focus on providing quality education with emphasis on professional competency, inter personal skills and ethics. In addition, PEO1 maps moderately with M2 and slightly with M3 as these mission statements concern to prepare the students to pursue career in industry and also their attitude to face real world problems.
PEO2	PEO2 which focuses on preparing the students to succeed in master/ research maps substantially with M1 and M2. These mission statements focus on providing state-of-art teaching learning process and prepare the students to pursue career in academia and research. In addition PEO2 maps moderately with M3 and M4 as the students require aptitude to face real world problems and foster computing skills with professional competency and ethics.
PEO3	PEO3 which is concerned with educating the students for the development of lifelong learning attitude and ethics that will help to meet the societal needs maps substantially with M1 and M3 as these mission statements focus on imparting knowledge in the students through quality education and preparing them to face real world problems. In addition PEO3 maps moderately with M2 and M4 motivates the students to pursue career in their own area of interest and foster computing skills and ethics.

PEO Statements	M1	M2	M3	M4
To Gain Successful Professional career in IT industry as an efficient software engineer.	3	2	1	3
To Succeed in Master/Research programmes by gaining knowledge on emerging technologies in the field of Computer Science & Engineering	3	3	2	2
To Grow as a responsible computing professionals in their own areas of interest with various computing skills and ethics through lifelong learning approach to meet societal needs.	3	2	3	2

2 PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (100)

Total Marks 100.00

2.1 Program Curriculum (30)

Total Marks 30.00

2.1.1 State the process for designing the program curriculum (10)

Institute Marks : 10.00

2.1.1 State the process for designing the program curriculum (10)

- PACE Institute of Technology and Sciences (PACEITS) is an AUTONOMOUS Institute Accredited by NAAC 'A' Grade and NBA.The B.Tech Computer Science & Engineering program curriculum is framed in accordance with AICTE/UGC/APSCHE/JNTUK norms.
- Department of Computer Science & Engineering follows a perspective model of discussion forum which preambles the high-level constitution of internal and external stakeholders for the introduction, innovation, and revision of the syllabi.
- The syllabus is framed with extensive emphasis on Employability Skills, Entrepreneurial Skills and Life Long Learning.
- The Feedback on the curriculum is collected from various stakeholders.
- The Faculty Members, Academic peers, Industry Experts, Students and Alumni forms the constitution of Board of Studies (BoS). The feedback from the members of BoS is envisaged in the design of Curriculum.
- The amendment passed by BoS is sent for approval to Academic Council, a statutory body constituted by the Institute. The Academic Council passes a resolution to accept or modify the amendment passed by BoS.

The curriculum preserves the balance in the composition of Basic Sciences, Engineering Sciences, Humanities and Social Sciences, Professional Core, Professional Electives and Open Electives and their distribution is as per the model curriculum of AICTE and Andhra Pradesh State Council of Higher Education (APSCHE) guidelines.

Factors considered for Curriculum Design:

The Curriculum is designed to ensure that the students to have the required domain knowledge and skills for employability. The factors taken into consideration for designing the program curriculum are:

- Model curriculum prescribed by AICTE/UGC/APSCHE/JNTUK
- Department Vision and Mission
- Twelve Program Outcomes (POs) recommended by NBA
- Program Specific Outcomes (PSOs)
- Suggestions from stake holders

The program curriculum is designed based on the broad guidelines of the institute keeping in view of AICTE/UGC/APSCHE/JNTUK directives and program specific criteria to meet the requirements of POs, PSOs and PEOs of the Department. The previous curriculum is found in the design of new curriculum by consulting Industry persons, parents, alumni, and students. Technological developments constitute important criteria while designing the program curriculum.

The Program Assessment and Quality Improvement Committee (PAQIC) and faculty members design the course content to meet out the requirement of COs. The individual courses are then discussed specifically for their outcomes in the department advisory committee (DAC) meetings. The committee points out the deficiencies of the curriculum keeping in view the various inputs and returns the same to the faculty for review. Once the DAC is satisfied with the contents of the curriculum, it is submitted to the program specific Board of Studies (BoS) meeting. The BoS evaluates the curriculum in terms of POs, PSOs and PEOs, and various inputs. The BoS submits the same to the PAQIC, chaired by the HOD. Again the curriculum is subjected to evaluation so that the contents fulfill all the statutory requirements, else it is again returned for review. Finally, the program curriculum is submitted to the Academic Council (AC), which is the highest academic body of the institute.

The process of framing the program curriculum is shown in the Figure 2.1.1.1

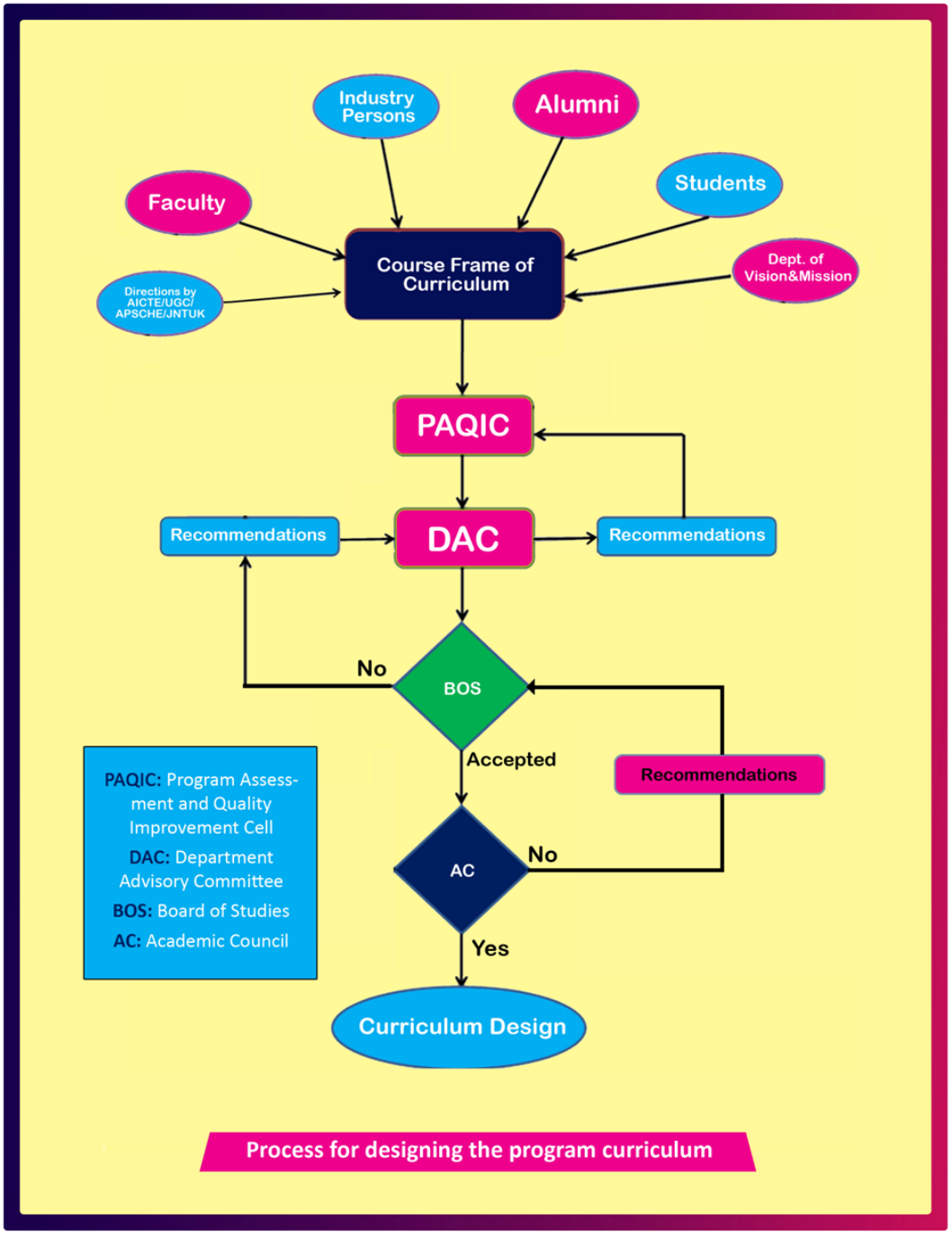


Figure 2.1.1.1: Process involved in the design of the program curriculum

Table 2.1.1.a: Regulations implemented as per the academic year

S.No.	Regulation	ImplementedAcademic Year
1	R18	2018-19
2	R21	2021-22

Table 2.1.1.b: Functions and Responsibilities of Competent Authorities

S.No.	Names of academic and administrative bodies	Functions and responsibilities

1	**Academic Council**	The Academic Council is the highest academic body which decides and advices on all academic matters. Academic proposals of BoS from each department are scrutinized and approved with or without modifications by the academic council. It also recommends/advise the Governing Body on proposals for new programme of study and other academic matters. • Scrutinize and approve the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant there to etc., provided that where the Academic Council differs on any proposal, it will have the right to return the matter for reconsideration to the Board of Studies concerned or reject it, after giving reasons to do so. • Implement the orders issued time to time by the State Government and the affiliating University in the admission of students to different programs of study offered by the college. • Make regulations for sports, extra-curricular activities, and proper maintenance and functioning of the playgrounds and hostels. • Frame regulations in consistent with university norms to conduct examinations and initiate measures for improving the quality of teaching, students' evaluation and advisory system in the College. • Encourage faculty members to undertake sponsored research, industrial consultancy, continuing education and related activities. • Recommend to the Governing Body proposals for institution of new programs study. • Recommend to the GB the institution of scholarships, fellowships, prizes and medals, and to frame regulations for the award of the same. • Advise the GB on suggestions pertaining to academic affairs made by it. • Perform such other functions as may be assigned by the Governing Body.
2	**Board of Studies**	• Prepare syllabi for various courses keeping in view the objectives of the institute, interest of the stakeholders and national requirement, for consideration and approval of the Academic Council • Suggest methodologies for innovative teaching and evaluation techniques • Suggest panel names to the Academic Council for appointment as paper setters, evaluators, examiners etc. • Coordinate research, teaching, extension and other academic activities in the department/college • Elaborate discussions on starting new courses, programs etc.
3	**Department Advisory Committee (DAC)**	• The DAC interacts and maintains liaison with stakeholders • The DAC is chaired by HOD who receives the report of the DAC and monitors the progress of the program. • The Committee develops and recommends new or revised goals and objectives of the program. • Based on the inputs received from PAQIC, the committee reviews and analyzes the gap between curriculum and industry requirements and gives necessary feedback or advice actions. • Recommends MOOCs courses like NPTEL, spoken tutorial, etc, FDP, STTPs/ Guest Lectures monitoring, Budget proposal and Lab facilities. • Review on student feedback.
4	**Program Assessment Quality Improvement Cell (PAQIC)**	• Track the results of Program Outcomes (POs), Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs), and plan the steps required to achieve POs, and PSOs. • Evaluates program effectiveness and proposes necessary changes for continuous improvement. • Prepares periodic reports on program activities, progress status or other special reports for management key stake holders. • Review on Exit Survey, Alumni Survey, and Employer Survey. • Motivates the faculty and students towards attending workshops, developing projects, working models, paper publications and records. • Interact with stakeholders and DAC to facilitate the achievement of POs, PSOs, and maintain track record and current status. • Program Assessment Committee meets periodically to review the program and submits report to Department Advisory Committee.

2.1.2 Structure of the Curriculum (5)

Institute Marks : 5.00

ID	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	Theory Credits	Practical Credits	Total Credits
1	P18MCT01	INDUCTION PROGRAM	3	0	0	3	0	0	0
2	P18HST01	English-I	3	0	0	3	3	0	3
3	P18BST01	Mathematics - I	3	0	0	3	3	0	3
4	P18BST03	Applied Physics	3	0	0	3	3	0	3
5	P18EST03	C-Programming for Problem Solving	3	0	0	3	3	0	3
6	P18EST02	Engineering Graphics	1	0	3	4	2.5	0	2.5
7	P18HSL01	English Language & Communication Skills lab	0	0	3	3	0	1.5	1.5
8	P18BSL01	Applied Physics Lab	0	0	3	3	0	1.5	1.5
9	P18ESL03	C-Programming for Problem Solving Lab	0	0	3	3	0	1.5	1.5
10	P18ESL02	Engineering Workshop Lab	0	0	3	3	0	1.5	1.5
11	P18HST02	English-II	3	0	0	3	3	0	3
12	P18BST02	Mathematics – II	3	0	0	3	3	0	3
13	P18BST05	Applied Chemistry	3	0	0	3	3	0	3
14	P18EST01	Basic Electrical and Electronics Engineering	3	0	0	3	3	0	3
15	P18EST05	Python Programming	3	0	0	3	3	0	3
16	P18BSL03	Applied Chemistry Lab	0	0	3	3	0	1.5	1.5
17	P18ESL01	Basic Electrical and Electronics Engineering Lab	0	0	3	3	0	1.5	1.5
18	P18ESL04	Python Programming Lab	0	0	3	3	0	1.5	1.5
19	P18CST01	JAVA Programming	3	0	0	3	3	0	3
20	P18CST02	Data Structures	3	1	0	4	4	0	4
21	P18ECT18	Digital Logic Design	3	0	0	3	3	0	3
22	P18BST07	Mathematics - III	3	0	0	3	3	0	3
23	P18CSL03	Free Open Source Software	1	0	2	3	0	2	2
24	P18CSL01	JAVA Programming Lab	0	0	3	3	0	1.5	1.5
25	P18CSL02	Data Structures Lab	0	0	3	3	0	1.5	1.5
26	P18ECL11	Digital Logic Design Lab	0	0	3	3	0	1.5	1.5
27	P18MCT02	Environmental Sciences	3	0	0	3	0	0	0
28	P18MCT04	Soft Skills – I	2	0	0	2	0	0	0
29	P18CST03	Mathematical Foundations of Computer Science	3	1	0	4	4	0	4
30	P18CST04	Computer Organization	3	0	0	3	3	0	3
31	P18CST05	Formal Languages & Automata Theory	3	0	0	3	3	0	3
32	P18CST06	Database Management Systems	3	1	0	4	4	0	4
33	P18CST07	Software Engineering	3	0	0	3	3	0	3
34	P18XXOXX	OPEN ELECTIVE-I	2	0	0	2	2	0	2
35	P18CSL04	Linux Programming lab	1	0	2	3	0	2	2
36	P18CSL05	Database Management Systems Lab	0	0	3	3	0	1.5	1.5
37	P18MCT05	Indian Constitution	2	0	0	2	0	0	0
38	P18CST08	Computer Networks	3	0	0	3	3	0	3
39	P18CST09	Operating Systems	3	0	0	3	3	0	3
40	P18CST10	Artificial Intelligence & Machine Learning	3	1	0	4	4	0	4
41	P18CSEXX	Professional Elective – I	3	0	0	3	3	0	3

42	P18XXOXX	Open Elective-II	2	0	0	2	2	0	2
43	P18MCT08	Design thinking for Innovation	0	0	4	4	2	0	2
44	P18CSL06	Computer Networks & Operating Systems Lab	0	0	3	3	0	1.5	1.5
45	P18CSL07	Artificial Intelligence & Machine Learning Lab	0	0	3	3	0	1.5	1.5
46	P18MCT10	Soft Skills – II	2	0	0	2	0	0	0
47	P18CSI01	Internship	0	0	0	0	0	2	2
48	P18CST11	Hadoop & Big Data	3	0	0	3	3	0	3
49	P18CST12	Web Technologies	3	0	0	3	3	0	3
50	P18CST13	Design & Analysis of Algorithms	3	1	0	4	4	0	4
51	P18CSEXX	Professional Elective-II	3	0	0	3	3	0	3
52	P18XXOXX	Open Elective –III	2	0	0	2	2	0	2
53	P18CSL08	Hadoop & Big Data Lab	0	0	3	3	0	1.5	1.5
54	P18CSL09	Web Technologies Lab	0	0	3	3	0	1.5	1.5
55	P18CSM01	Mini Project-I	0	0	4	4	0	2	2
56	P18MCT12	Soft Skills – III	2	0	0	2	0	0	0
57	P18CST14	Web Development using MEAN Stack	3	1	0	4	4	0	4
58	P18CST15	OOAD with UML	3	0	0	3	3	0	3
59	P18CSEXX	Professional Elective-III	3	0	0	3	3	0	3
60	P18CSEXX	Professional Elective-IV	3	0	0	3	3	0	3
61	P18XXOXX	Open Elective-IV	2	0	0	2	2	0	2
62	P18CSL10	OOAD with UML Lab	0	0	3	3	0	1.5	1.5
63	P18CSL12	Mobile Application Development Lab	1	0	2	3	0	2	2
64	P18CSL11	MEAN Stack Lab	0	0	3	3	0	1.5	1.5
65	P18MCT14	Employability Skills	2	0	0	2	0	0	0
66	P18CSEXX	Professional Elective-V	4	0	0	4	4	0	4
67	P18CSEXX	Professional Elective-VI	4	0	0	4	4	0	4
68	P18MBT02	Ethics &Human Values	2	0	0	2	2	0	2
69	P18CSP01	Project	0	0	12	12	0	6	6
		Total	**128**	**6**	**80**	**214**	**118.5**	**41.5**	**160.0**

2.1.3 State the components of the curriculum (5)

Institute Marks : 5.00

Course Components	**Curriculum Content (% of total number of credits of the program)**	**Total number of contact hours**	**Total number of credits**
Basic Sciences	11.25	21.00	18
Engineering Sciences	10.93	25.00	18
Humanities and Social Scie	4.7	9.00	7
Program Core	44.06	87.00	71
Program Electives	12.5	20.00	20
Open Electives	5	8.00	8
Project(s)	5	16.00	8
Internships/Seminars	1.25	0.00	2
Any other (Please specify)	5.31	28.00	8
Total number of Credits			**160**

2.1.4 State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I (10)

Institute Marks : 10.00

2.1.4 State the process used to identify extent of compliance of the curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I (10)

The curriculum for B.Tech Program in Computer Science and Engineering maintains balance among various components from Basic Sciences, Engineering Sciences, Humanities and Social Sciences, Professional Core, Professional Electives, Open Electives, Project work & Practical Training/Internship and mandatory courses.

A detailed matrix is prepared by mapping of all courses in the program with POs and PSOs along with their level of correlation: 1(low), 2(medium) and 3(high). The process of measuring the attainment of POs and PSOs through COs is demonstrated and properly documented in criteria 3. If POs and PSOs are not attained as per the specified target levels, then corrective measures will be taken to fill the curriculum gap.

Table 2.1.4.a: Details of course code allocation for R-18 Regulation

CODE	NAME OF THE COURSE	CODE	NAME OF THE COURSE
I-SEMESTER		**II SEMESTER**	
C101	Induction Program	C111	English-II
C102	English-I	C112	Mathematics – II
C103	Mathematics – I	C113	Applied Chemistry
C104	Applied Physics	C114	Basic Electrical and Electronics Engineering
C105	C-Programming for Problem Solving	C115	Python Programming
C106	Engineering Graphics	C116	Applied Chemistry Lab
C107	English Language & Communication Skills lab	C117	Basic Electrical and Electronics Engineering Lab
C108	Applied Physics Lab	C118	Python Programming Lab
C109	C-Programming for Problem Solving Lab	----	----
C110	Engineering Workshop Lab	----	----
III-SEMESTER		**IV SEMESTER**	
C201	JAVA Programming	C211	Mathematical Foundations of Computer Science
C202	Data Structures	C212	Computer Organization
C203	Digital Logic Design	C213	Formal Languages & Automata Theory
C204	Mathematics – III	C214	Database Management Systems
C205	Free Open Source Software	C215	Software Engineering
C206	JAVA Programming Lab	C216	Introduction to Simulation Software
C207	Data Structures Lab	C217	Linux Programming
C208	Digital Logic Design Lab	C218	Database Management Systems Lab
C209	Environmental Sciences	C219	Indian Constitution
C210	Soft Skills – I	C220	Internship
V-SEMESTER		**VI-SEMESTER**	
C301	Computer Networks	C310	Hadoop & Big Data
C302	Operating Systems	C311	Web Technologies
C303	Artificial Intelligence & Machine Learning	C312	Design & Analysis of Algorithms
C304	Data Warehousing & Data Mining	C313	Distributed Systems
C305	MEFA	C314	Cryptography & Network Security
C306	Design thinking for Innovation	C315	Management of Science
C307	Computer Networks & Operating Systems Lab	C316	Hadoop & Big Data Lab
C308	Artificial Intelligence & Machine Learning Lab	C317	Web Technologies Lab
C309	Soft Skills – II	C318	Mini Project-I / EPICS
----	----	C319	Soft Skills – III
VII-SEMESTER		**VIII SEMESTER**	
C401	Web Development using MEAN Stack	C410	Internet of Things
C402	OOAD with UML	C411	Human Computer Interaction
C403	Wireless Networks & Mobile Computing	C412	Ethics &Human Values
C404	Cloud Computing	C413	Project
C405	Image Processing	----	----
C406	OOAD with UML Lab	----	----
C407	Mobile Application Development Lab	----	----
C408	MEAN Stack Lab	----	----
C409	Employability Skills	----	----

Table 2.1.4.b: Mapping of courses with POS and PSOs for R-18 Regulation

S.no	course code	PO 1	PO 2	PO3	PO 4	PO 5	PO6	PO7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2
I-SEMESTER															
1	C101	-	-	-	-	-	-	-	-	1	3	-	1	-	-

2	C102	-	-	-	-	-	-	-	-	2	2.3	-	2	-	-
3	C103	2.6	2.8	-	-	-	-	-	-	-	-	-	-	-	-
4	C104	3	2.8	2.4	1.3	-	-	-	-	-	-	-	1.8	2	1
5	C105	3	2.8	2.6	2.6	2.6	-	-	-	-	2	1.5	1	2.4	2.4
6	C106	3	3	2	-	3	2	3	2	2	2	3	3	1	1.6
7	C107	1	-	2	-	-	-	2	-	2	1	1	3	2	2
8	C108	3	2	2	2	-	-	-	-	-	-	-	1.5	2	1
9	C109	3	3	-	3	2	2	2	-	-	-	-	2	2.5	2.8
10	C110	1.8	2.2	1	1	-	1.4	1	2	3	3	1.4	2.2	1.8	1
II-SEMESTER															
11	C111	-	-	-	-	-	-	-	-	2	2.3	-	2	1.5	2
12	C112	2.6	2.8	-	-	-	-	-	-	-	-	-	-	1	-
13	C113	1.4	1.6	2.2	-	-	-	-	-	-	-	-	1.8	-	-
14	C114	1.8	2.4	1.8	-	-	-	1	-	-	-	-	-	2	1
15	C115	2.8	2.8	2.8	2	2.4	1.75	-	-	-	-	-	1.6	1.75	1.6
16	C116	3	-	-	3	2	-	-	-	-	-	-	-	-	1
17	C117	1.8	1	1	-	-	1.5	1	1	1	-	-	-	3	1
18	C118	3	2.8	2.8	1.3	1.5	1.5	-	-	-	-	-	1.4	2	1.5
III-SEMESTER															
19	C201	2.6	2.6	2.3	2	2.6	-	-	-	-	-	-	-	2.6	2.6
20	C202	2.6	2.6	2.6	2	2.6	-	-	-	-	-	-	-	2.6	2.6
21	C203	1.75	1.75	1.75	1.6	1.6	-	-	-	-	-	-	-	1.75	1.75
22	C204	1.6	1.6	1.6	1.5	1.4	-	-	-	-	-	-	-	1.6	1.75
23	C205	2.3	2.5	1.5	2	2.5	2	-	-	1.5	1	1	1	2.3	2.3
24	C206	2.3	2	1.3	2.3	2.3	2	-	-	-	2.3	2.3	1	2.3	2.3
25	C207	2.3	2.3	2.3	2.3	2.6	-	-	-	2	2.3	1.6	-	2.6	2.3
26	C208	2	2	2	2.3	2.25	-	-	-	2	2.3	1.75	-	2.2	2.2
27	C209	2.6	1.2	1	-	-	2	3	2	-	1	1	1	1	2
28	C210	-	-	-	-	-	1.2	2.2	2.4	1.6	1.4	1.6	2	1	1.3
IV-SEMESTER															
29	C211	1.6	1.6	1.6	1.6	2	-	-	-	-	-	-	-	2	2
30	C212	2.5	2.6	2	2.6	2.6	-	-	-	-	-	-	-	3	2.3
31	C213	2.25	2.6	2	2.3	2.5	-	-	-	-	-	-	-	2.5	2.25
32	C214	2	2.5	2.25	2	2.5	-	-	-	-	-	-	-	2.5	2.25
33	C215	2.25	2.75	1.6	1.75	2.5	-	-	-	-	-	-	2	2.75	2.25
34	C216	2.25	3	2.3	2	2.75	-	-	-	-	2	-	1.6	2.75	2.5
35	C217	2	2.75	2	2	2.75	2	-	-	2	1.5	2	1.5	2.75	2
36	C218	2.2	3	2	2	3	1.3	-	-	-	1.6	1.6	2	2.6	2.25
37	C219	1.6	2	2	2	2	2	-	-	1	1	-	-	2	3
38	C220	2	1.6	2	2	2	2	1.5	1.5	1.5	2	2	2	2	2
V-SEMESTER															
39	C301	2.75	2.75	1.75	1.75	2.6	-	-	-	-	-	-	-	2.75	2.5
40	C302	1.75	1.6	2	2	-	-	-	-	-	-	-	-	1.8	2
41	C303	2.75	2.6	2	2	2.75	-	-	-	-	-	-	-	2.5	2.2
42	C304	2.75	2.6	1.75	1.5	3	-	-	-	-	-	-	-	3	2.3
43	C305	1.5	1.5	1.5	1.5	1.75	2	-	-	-	2	-	1.6	2	1.75
44	C306	2.4	2.4	2	2.5	2.5	2.5	2	2.3	2	2.3	2.3	2.3	2.2	2
45	C307	2.5	2.6	1.6	1.6	2.6	1.5	2	-	-	1.6	1.6	1.3	2.75	1.75
46	C308	1.6	1.6	2.3	2.3	2	2	1.5	-	-	1.5	1.5	1.5	2.6	2
47	C309	-	-	-	-	-	1.20	2.60	2.60	1.80	1.60	2.00	2.00	1.3	1.25
VI-SEMESTER															
48	C310	2.75	2.6	2.5	2	2.75	-	-	-	-	-	-	-	2.6	2.6
49	C311	2.75	2.6	2	1.3	2.6	-	-	-	-	-	-	-	2.6	2.6
50	C312	2.6	2.3	2.3	1.75	2.6	-	-	-	-	-	-	-	2.6	2.6
51	C313	2.5	2.6	1.6	2.25	3	-	-	-	-	-	-	-	3	2.6
	C314	2	1.75	1.6	1.6	1.75	-	2	-	-	1.6	-	-	1.6	1.8
52	C315	2.6	2.6	2.2	2.3	2.5	1.3	-	1.5	1.25	2.3	1.5	1.6	2.6	2.6
53	C316	2.6	2.6	2	1.75	2.5	1.5	-	-	1.6	1.6	1.5	1.5	2.6	2.2
54	C317	2.75	2.25	2.75	2.5	2.75	2.5	2	-	2.5	2.25	2.25	2.75	2.75	2.25
55	C318	2.75	2.25	2.75	2.5	2.75	2.5	2	-	2.5	2.25	2.25	2.75	2.75	2.25
56	C319	-	-	-	-	-	1.80	2.60	2.60	2.00	1.60	1.67	2.00	1.6	1.5
VII-SEMESTER															
57	C401	2	2	2	2	2.2	-	-	-	-	-	-	-	2	2
58	C402	2.2	2	2.25	2	2.25	-	-	-	-	-	-	-	2.25	2
59	C403	2.5	2.25	2.25	2.3	2	-	-	-	-	-	-	-	2.2	2.2
60	C404	2.6	2	2.5	2.25	2	-	-	-	-	-	-	-	2	2.3
61	C405	2	2.25	2.5	1.6	2.25	-	-	-	-	-	-	-	2.6	2
62	C406	2.6	3	2.3	2.3	2.5	1.3	-	-	1.33	2	2.5	2	2.6	2.3
63	C407	2.4	2.8	2.4	2.5	2.6	1.6	2	-	-	1.75	2	1.6	2.6	2.4

64	C408	2	2.5	1.75	1.6	2	1.75	-	-	1.33	1.6	1.6	1.3	2	1.75
65	C409	-	-	-	-	-	2	2	-	2	2	3	2	2	3
VIII-SEMESTER															
66	C410	2.3	2.25	2	1.6	2.3	-	-	-	-	-	-	-	2.25	2.25
67	C411	2.5	2.6	2	1.75	2.4	-	-	-	-	-	-	-	2.6	2.5
68	C412	2.5	2.6	2.3	1.75	2.5	-	-	-	-	-	-	-	2.5	2
69	C413	2.75	2	2.75	2.5	2.5	2.5	2.25	-	2.75	2.5	2.5	2.5	2.75	2.5
	No. of Courses Mapped	**61**	**59**	**57**	**53**	**50**	**29**	**20**	**11**	**25**	**34**	**27**	**37**	**64**	**64**

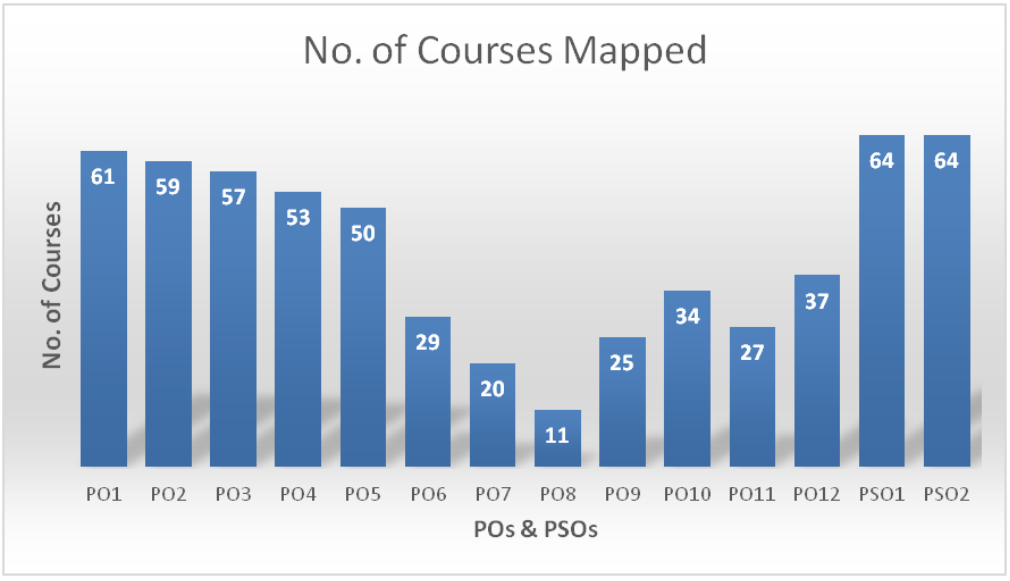


Figure 2.1.4.1 Number of courses mapped to each PO and PSO for R-18 Regulation

The following is the flow diagram of process used extent of comliance of the curriculum for attaining the program outcomes and program specific outcomes.

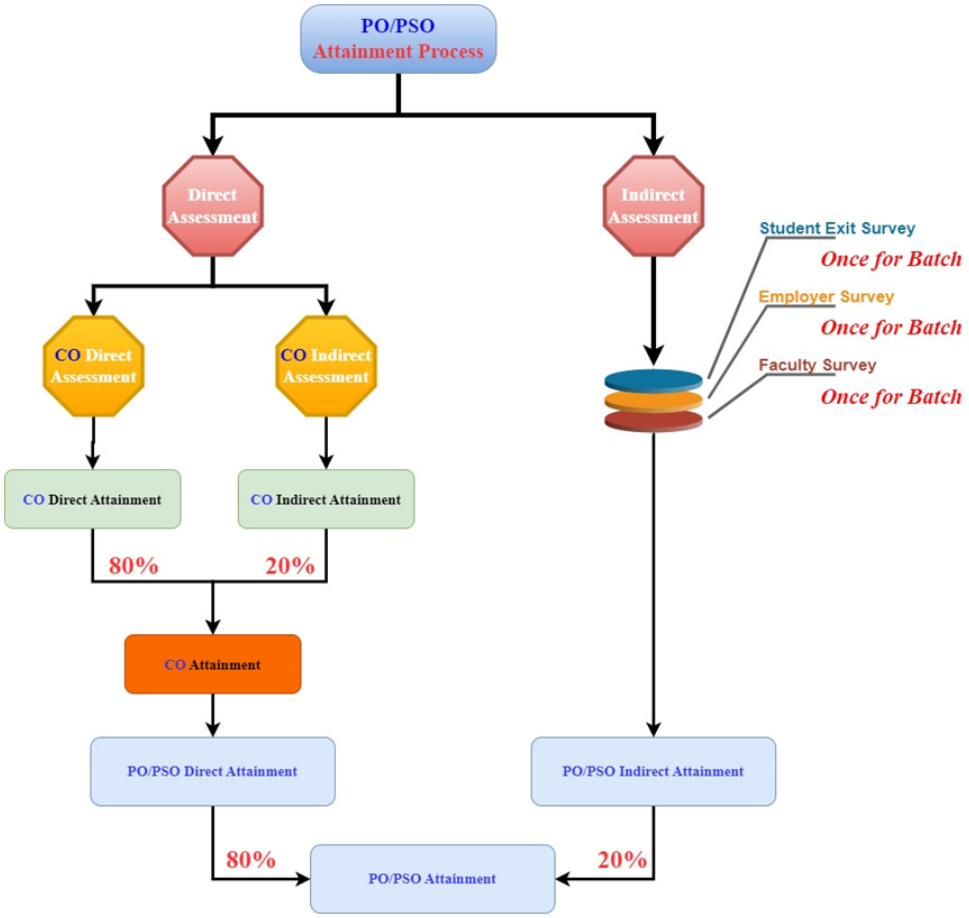


Figure 2.1.4.2: Flow diagram of curriculum for attaining the PO'S and PSO'S

2.2 Teaching-Learning Processes (70) Total Marks 70.00

2.2.1 Describe Processes followed to improve quality of Teaching & Learning (15)

Institute Marks : 15.00

2.2 Teaching-Learning Processes (70)

2.2.1 Describe Processes followed to improve quality of Teaching & Learning (15)

The quality improvement in teaching and learning of the department is achieved through a well-defined system of an academic procedure, which is given below:

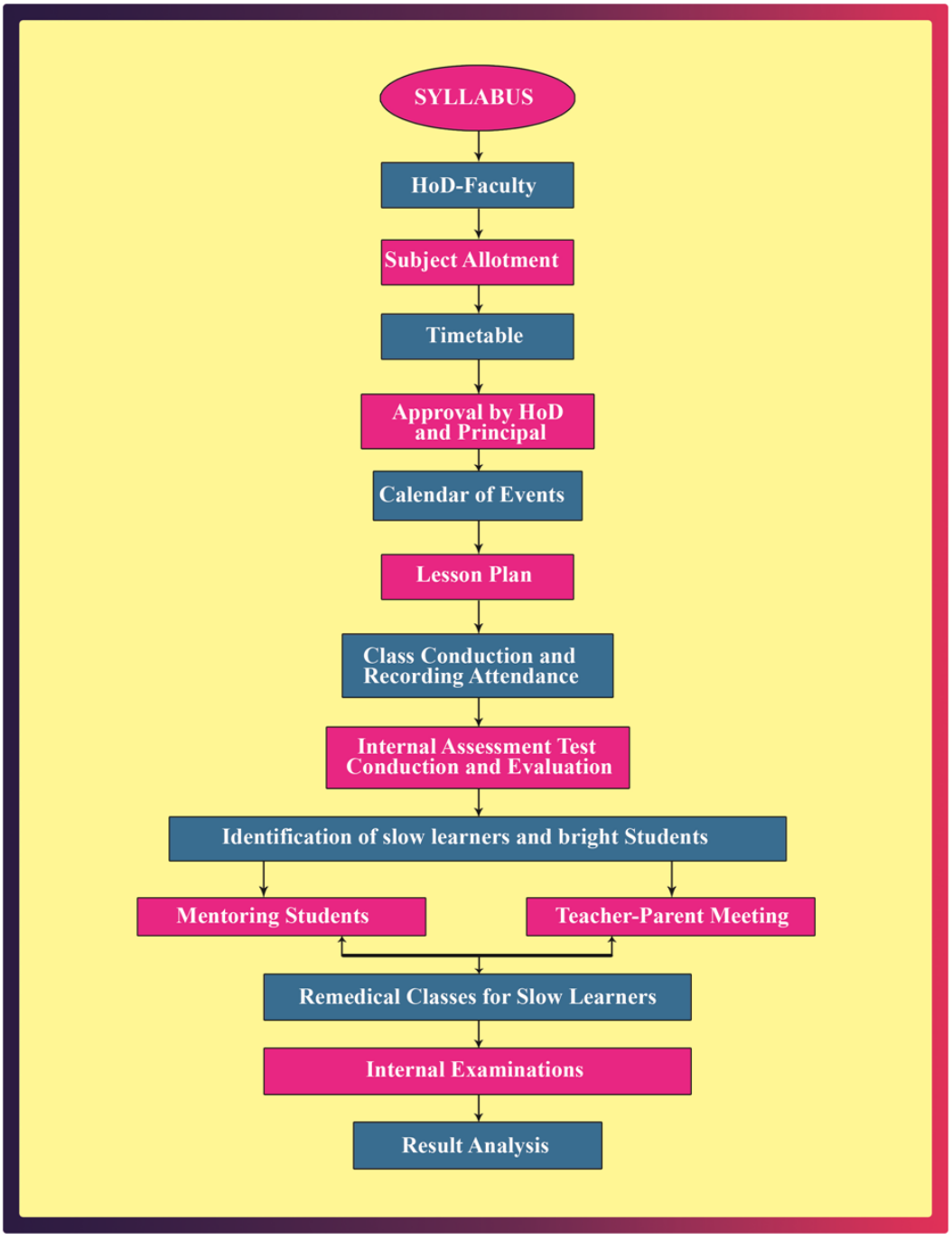


Figure 2.2.1.1: Flow diagram of teaching and learning process

The quality of teaching and learning process is improved through the following implementations:

PLANNING:

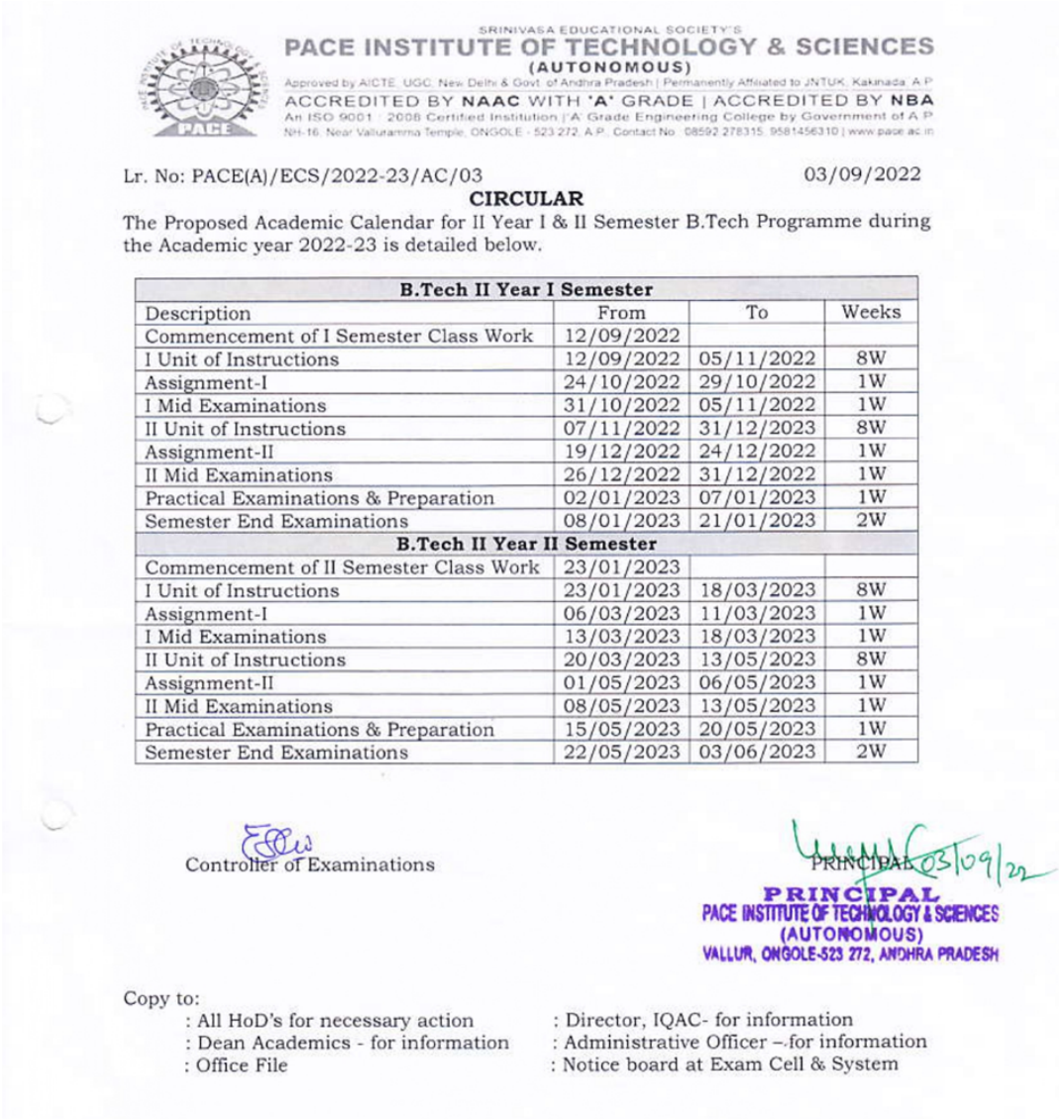
A. ADHERENCE TO ACADEMIC CALENDAR

In the beginning of every academic year, the college Dean of Academics prepares well planned academic calendar and distribute it to all faculty members and students.

The academic calendar consists of:

- Date of commencement of the academic session.
- Duration of semester.
- Commencement of Continuous Internal Evaluation (CIE) test.
- Last instruction day.
- Preparation period and practical exams.
- Commencement of practical and semester end examinations(SEE).

Figure 2.2.1.2: Shows the Sample copy of academic calendar of the college



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Lr. No: PACE(A)/ECS/2022-23/AC/03 03/09/2022

CIRCULAR

The Proposed Academic Calendar for II Year I & II Semester B.Tech Programme during the Academic year 2022-23 is detailed below.

B.Tech II Year I Semester			
Description	From	To	Weeks
Commencement of I Semester Class Work	12/09/2022		
I Unit of Instructions	12/09/2022	05/11/2022	8W
Assignment-I	24/10/2022	29/10/2022	1W
I Mid Examinations	31/10/2022	05/11/2022	1W
II Unit of Instructions	07/11/2022	31/12/2023	8W
Assignment-II	19/12/2022	24/12/2022	1W
II Mid Examinations	26/12/2022	31/12/2022	1W
Practical Examinations & Preparation	02/01/2023	07/01/2023	1W
Semester End Examinations	08/01/2023	21/01/2023	2W
B.Tech II Year II Semester			
Commencement of II Semester Class Work	23/01/2023		
I Unit of Instructions	23/01/2023	18/03/2023	8W
Assignment-I	06/03/2023	11/03/2023	1W
I Mid Examinations	13/03/2023	18/03/2023	1W
II Unit of Instructions	20/03/2023	13/05/2023	8W
Assignment-II	01/05/2023	06/05/2023	1W
II Mid Examinations	08/05/2023	13/05/2023	1W
Practical Examinations & Preparation	15/05/2023	20/05/2023	1W
Semester End Examinations	22/05/2023	03/06/2023	2W

Controller of Examinations

PRINCIPAL 03/09/22
PRINCIPAL
PACE INSTITUTE OF TECHNOLOGY & SCIENCES
(AUTONOMOUS)
VALLUR, ONGOLE-523 272, ANDHRA PRADESH

Copy to:
: All HoD's for necessary action
: Dean Academics - for information
: Office File
: Director, IQAC- for information
: Administrative Officer –for information
: Notice board at Exam Cell & System

Figure 2.2.1.2: Sample copy of academic calendar of the college

Subject Allocation:

The department adopts a well-defined process for course allotment to see that workload is distributed properly.

Lecture Plan:

- Course allocation is made before the commencement of every semester based on the competencies and choice of the faculty members.
- Once the courses are allocated, faculty prepares a lecture plan indicating the topics covered lecture wise based on the course objectives and course outcomes.
- The module coordinator looks after the delivery of the course content and supervises preparation of question papers to improve the quality of the question paper.

Table 2.2.1.a: List of modules and relevant courses for core engineering subjects of CSE curriculum

S. No	Name of the Module	Relevant courses	Name of Module Coordinator
1	**Programming**	• C Programming for Problem Solving • Python Programming • Java Programming • Web Technologies	**Mr. SK. Jilani Basha**
2	**Data Bases**	• Data Base Management Systems • Data Ware Housing & Data Mining	**Mr. N. Srinivasa Rao**
3	**Networks**	• Computer Networks • Distributed Systems • Wireless Networks & Mobile Computing • Cloud Computing	**Dr.K.SivaRam Prasad**
4	**Security**	• Cryptography & Network Security • Block Chain Technology • Cyber Security	**Mr. S. Giribabu**

5	**Algorithms**	• Data Structures • Design of Algorithms & Analysis	**Mr. V. Gopi Krishna**
6	**Skilled Courses**	• Linux Programming • Free Open Source Software • Web Development Using Mean Stack • Mobile Application Development	**Dr. P. Hussain Basha**
7	**Advanced Courses**	• Artificial Intelligence & Machine Learning • Deep Learning • Data Science • Hadoop & Big Data • Social Media Analytics • Internet of Things	**Dr. Suresh Dara**
8	**Project Management**	• Software Engineering • Software Testing Methodologies • OOAD with Unified Modelling Language	**Dr. E.V.N Jyothi**
9	**Professional Core**	• Computer Organization • Operating Systems • Formal Languages and Automata Theory	**Dr. A. Seshagiri Rao**

B. PEDAGOGICAL INITIATIVES

Computer Science & Engineering being a rapidly changing field which requires continuous learning to be updated in the particular profession and the pedagogies play an important role in development of the content. Faculty members use various pedagogical methods for effective teaching learning process as given below:

- Chalk and White board
- Power point presentation
- Experimental Learning
- Project based learning
- Learning Management System (Moodle)
- Seminars/Workshops/Conferences/Industrial visits
- Technical Training Programmes through Training & Placement Cell (T&P)
- MOOCs Courses -Swayam NPTEL, Spoken Tutorial, CISCO, etc
- Interactive learning

Implementation

The implementation of teaching-learning mechanism is carried out based on the following different activities. Some of the pedagogical implementation methods are given below:

Google Meet/ Zoom Online Classes:

During COVID-19 pandemic, the class work is conducted through online in various platforms such as Google Meet/Zoom and which were very effectively used for every course of the program. The faculty can upload course plans, e-Books, course materials, video lectures, question banks, etc in this platform. The online assessment tests are conducted through Microsoft teams. Figure 2.2.1.3: Shows the Screenshots of the online class conducted in various platforms by a faculty member.

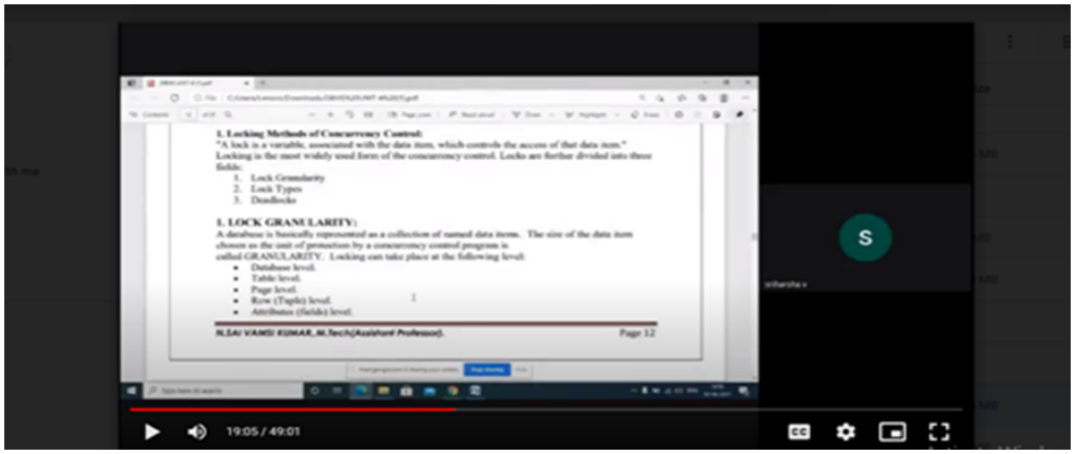

Figure 2.2.1.3.a: Screenshot of the online class conducted in Google Class Room

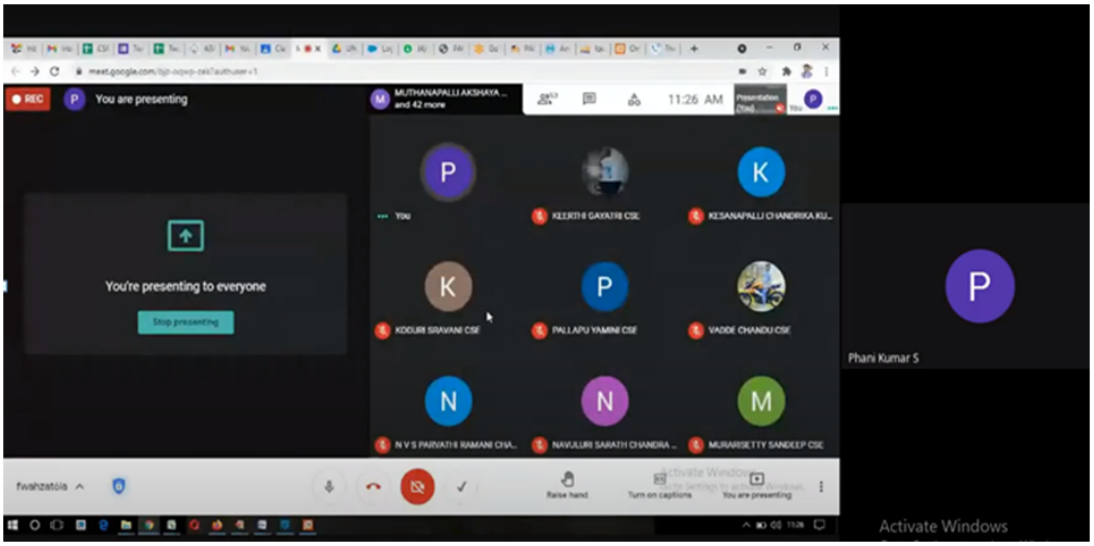

Figure 2.2.1.3.b: Screenshot of the online class conducted in Google Meet

Experimental learning:

- To improve the quality of learning, curriculum of laboratory courses is developed in such a manner to emphasize the concepts learned in theoretical subjects.
- In each semester, two or three laboratory courses are conducted and most of these courses are related to theoretical subjects.
- Both hardware and software based laboratories are equipped with necessary infrastructure to facilitate effective conduction of the experiments in the laboratory.
- Faculty members are assigned for each practical session to assist the students in conducting experiments.
- For the laboratory sessions, detailed instruction manuals are provided for each laboratory course.
- Students are also advised to study the theory and the procedure to conduct the experiment before the laboratory session.
- Students conduct the experiments and record the observations in the observation book. After completion of the experiment, students are encouraged to discuss about results obtained from the experiment.
- The observations are verified by faculty and record books are evaluated.
- As part of testing the learning process, viva-voce is conducted in each laboratory session.

Project based learning:

- The main project work and mini project is carried out by students in VIII & VI Semesters respectively.
- Students in each section are divided into batches consisting of 4-5 students.
- Each batch selects their guide according to the research area of the faculty members.
- Problem identification is done based on the existing solutions collected from literature survey and also identifies the constraints to the problems.

Learning Management System (Moodle):

The college encourages teaching & learning through LMS tool, such as Moodle. Each Department has a Moodle coordinator, who maps the students, courses and faculty at the beginning of the semester in Moodle. Lesson plan, syllabus, assignments, lab manuals and extra material are shared with the students through Moodle. Quiz is conducted through Moodle.

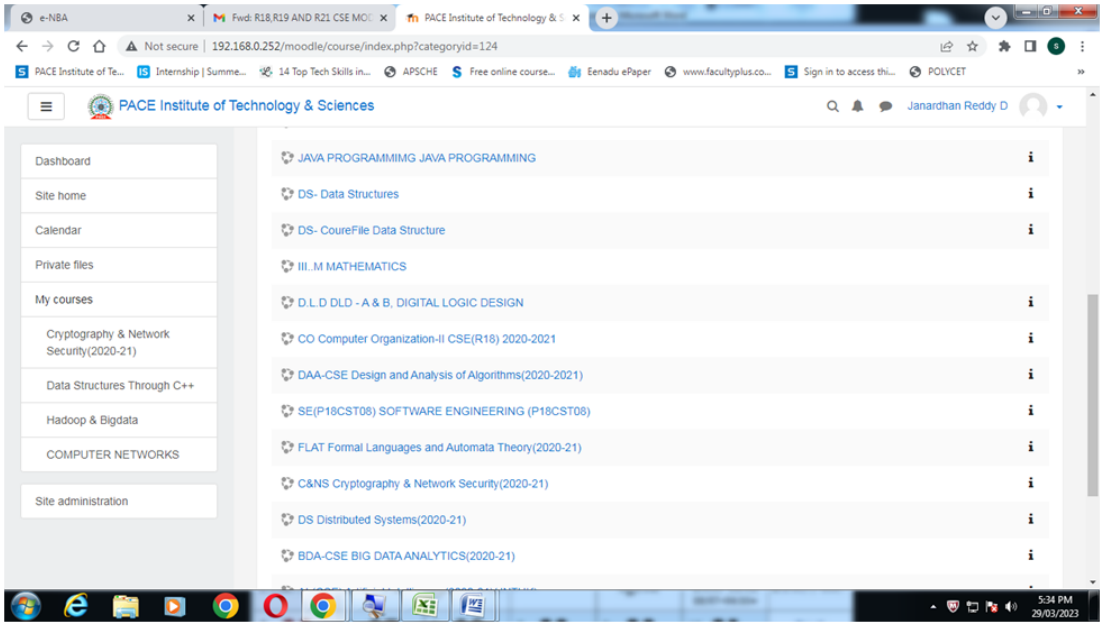

Figure 2.2.1.4: Screenshot of the PACE Moodle

Invited Lectures:

The department interacts with the industry and academic experts to deliver Guest lecturers/ Seminars/Workshops to students on latest technologies and tools.

- The department has various Student Chapters like CSI (Computer Society of India), ISTE (Indian society of Technical Education).These chapters conduct various technical events to the students regularly.
- The guest lectures by resource persons from industry, academic and research institutions are frequently arranged by the department.
- Students are also encouraged to present technical papers at conferences and exhibit their projects in project competitions.

Figure 2.2.1.5.a: Practical Training (workshop) on Big Data Analytics through CSI

Figure 2.2.1.5.b: Invited (Guest) Lecture on Brain Computer Interface Using ML

Figure 2.2.1.5.c: Invited (Guest) Lecture on Machine Learning Algorithms

Table 2.2.1.b: List of events organized under Professional societies/ chapters of the Department

A.Y 2021-22					
S.No	Name of the Programme	Nature of the Event	Student Chapter	Targeted Participants	Date

1	Workshop on Covid-19 High Disease prediction using Random Forest & XG boost classifier	Online Workshop	CSI	III-I Sem	18.01.2021
2	Webinar on Internship Opportunities	Webinar	CSI	III-I Sem	13.11.2021
3	Workshop on Comptia Security	Workshop	CSI	II-I&III-I Sem	13.12.2021
A.Y 2020-21					
1	Workshop on Python Programming	Workshop	CSI	II-I Sem	04.01.2021
2	Workshop on Source code management using Git & Git Hub	Online Workshop	CSI	III-II Sem	28.06.2021
3	Webinar on Innovation Opportunities for Students	Webinar	ISTE	II-II,III-II,IV-II Sem	10.07.2021
4	Use of Technology in Education	Webinar	ISTE	II-II,III-II,IV-II Sem	31.07.2021
A.Y 2019-20					
1	Workshop on Advanced Python Programming	Workshop	ISTE	II-I Sem	22.07.2019
2	Workshop on IBM Blue Mix(Cloud Computing)	Workshop	ISTE	II-I Sem	12.08.2019
3	Workshop on Google Android Fundamentals	Workshop	CSI	II-II Sem	09.03.2020
4	Workshop on Big data Analytics	Workshop	CSI	II-II,III-II,IV-II Sem	10.03.2020

Technical Training Programmes through Training & Placement Cell:

- Technical training refreshes the basics which will be helpful for placement activities.
- Specially designed training (soft skills, communication skills) is given to students regularly by the Training & Placement cell.
- Such activities facilitate the students to win in job recruitment /placement.

List of industrial trainings conducted for students by T&P is given below:

Table 2.2.1.c: List of industrial trainings for A.Y 2022-2023

S.no	Name of the program	Date	Organized by	Beneficiary
1	DXC TRAINING	26-06-2022 to 13-07-2022	Inhouse	19KQ-BATCH
2	TCS TRAINING	14-07-2022 to 13-08-2022	Inhouse	19KQ-BATCH
3	BRILLIO & TECH MAHINDRA TRAINING	10-09-2022 to 21-09-2022	Inhouse	19KQ-BATCH
4	DELTA X & ZESSTA TRAINING	01-10-2022 to 09-10-2022	Inhouse	19KQ-BATCH
5	CRMIT & SNOVASYS TRAINING	12-10-2022 to 25-10-2022	Inhouse	19KQ-BATCH
6	PLINTRON TRAINING	06-12-2022 to 10-12-2022	Inhouse	19KQ-BATCH
7	deloitte TRAINING	12-12-2022 to 28-12-2022	Inhouse	19KQ-BATCH
8	OSI DIGITAL & THRMO FISHER TRAINING	31-12-2022 to 06-01-2023	Inhouse	19KQ-BATCH

Table 2.2.1.d: List of industrial trainings for A.Y 2021-2022

S.no	Name of the program	Date	Organized by	Beneficiary
1	TCS & WIPRO TRAINING	06-10-2021 to 19-10-2021	Inhouse	18KQ-BATCH
2	MINDTREE TRAINING	21-10-2021 to 30-10-2021	Inhouse	18KQ-BATCH
3	QUEST GLOBAL TRAINING	01-11-2021 to 16-11-2021	Inhouse	18KQ-BATCH
4	HCL TRAINING	17-11-2021 to 16-12-2021	Inhouse	18KQ-BATCH
5	INFYTQ& HACK WITH INFY TRAINING	06-12-2021 to 07-01-2022	Inhouse	19KQ-BATCH
6	HEXAWARE TRAINING	21-04-2022 to 02-05-2022	Inhouse	19KQ-BATCH

7	EUNIMART TRAINING	04-05-2022 to 16-05-2022	Inhouse	19KQ-BATCH
8	IBI GROUP TRAINING	17-05-2022 to 19-05-2022	Inhouse	19KQ-BATCH

Table 2.2.1.e: List of industrial trainings for A.Y 2020-2021

S.no	Name of the program	Date	Organized by	Beneficiary
1	T CS NQT TRAINING	01-10-2020 to 20-10-2020	Inhouse	17KQ-BATCH
2	HEXAWARE TRAINING	01-11-2020 to 10-11-2020	Inhouse	17KQ-BATCH
3	APTROID TRAINING	15-11-2020 to 20-11-2020	Inhouse	17KQ-BATCH
4	TEK SYSTEMS TRAINING	01-12-2020 to 10-12-2020	Inhouse	17KQ-BATCH
5	WIPRO TRAINING	18-12-2020 to 28-01-2021	Inhouse	17KQ-BATCH
6	GLOBAL EDGE TRAINING	15-02-2021 to 19-02-2021	Inhouse	17KQ-BATCH
7	INFYTQ TRAINING	10-02-2021 to 17-04-2021	Inhouse	18KQ-BATCH
8	MPHASIS TRAINING	01-07-2021 to 10-07-2021	Inhouse	18KQ-BATCH

Table 2.2.1.f: List of industrial trainings for A.Y 2019-2020

S.no	Name of the program	Date	Organized by	Beneficiary
1	EMBEDDED UR TRAINING	01-07-2019 to 08-07-2019	Inhouse	16KQ-BATCH
2	TCS TRAINING	22-07-2019 to 02-08-2019	Inhouse	16KQ-BATCH
3	MIND TREE TRAINING	06-09-2019 to 11-09-2019	Inhouse	16KQ-BATCH
4	WIPRO COMPANY SPECIFIC TRAINING	11-10-2019 to 17-10-2019	Inhouse	16KQ-BATCH
5	CTS SPECIFIC TRAINING	13-11-2019 to 22-11-2019	Inhouse	16KQ-BATCH
6	INFYTQ TRAINING	27-01-2020 to 10-02-2020	Inhouse	17KQ-BATCH
7	INFYTQ TRAINING	13-02-2020 to 24-02-2020	Inhouse	17KQ-BATCH

MOOCs Courses:

The students are encouraged to do the certification courses in NPTEL, CODE TANTRA, CISCO, SPOKEN TUTORIAL and other MOOC Courses. This course enables them to enrich their subject knowledge, give an exposure to recent technological advancements and also serves as a platform to strengthen their interdisciplinary skills. It is also considered as a key for lifelong learning. The faculty members are also using E-sources such as Swayam NPTEL courses for effective teaching.

Table 2.2.1.g: Details of MOOC courses

S.No	No. of students completed	MOOC platforms
A.Y 2022-23		
1	251	CISCO,CODETANTRA,SPOKEN TUTORAL , NPTEL
A.Y 2021-22		
2	470	CISCO,CODETANTRA,SPOKEN TUTORAL , NPTEL
A.Y 2020-21		
3	252	SPOKEN TUTORAL , NPTEL
A.Y 2019-20		
4	191	SPOKEN TUTORAL , NPTEL

C. METHODOLOGIES TO SUPPORT WEAK STUDENTS AND ENCOURAGE BRIGHT STUDENTS

The department has a well-defined process of monitoring, guiding and assisting weak students. The students who secure below 50% marks in any subject in their I-Mid-Term examination are identified and considered as academically weak students. Students who secure above 80% marks in their I-Mid-term examination in all subjects are considered as academically bright students. Weak students are given counselling for the career guidance. Bright students are encouraged to take up new challenges, like participating in events like quiz, paper presentation, mini projects and technical fests, placement training.

Mentoring:

- The purpose of mentoring system is to monitor the student with regard to their academic and professional well-being.
- Every mentor regularly monitors the internal and external marks obtained by students and guide them for improvement in case of poor performance.
- Mentors also identify the core competencies of the students and guide them to make a better professional.
- Students are allowed to approach the mentor for both academic & personal problems.

Assistance for weak students:

- Mentors regularly follow their progress and counsel them to attend the classes regularly.
- Motivated the weak students to attend remedial classes and help them to better understand the subject.
- Students' attendance and performances are intimated to parents.
- Counselling is given to the students by subject handling faculty, Class teacher and HOD if necessary.
- Discussion on important questions and question bank is arranged.
- Remedial classes are conducted for weak students to improve knowledge.

Support for average students:

- Encourage students to attempt MOOCs and other certification courses
- Assigning seminar presentations to improve their presentation skills etc.
- Motivate them to workshops, seminars, paper presentations and other co-curricular activities.

Encouraging bright students:

- To take up mini/major projects to enrich them technically skilled

- Motivate them to attend conferences, project expos and other co-curricular activities
- Encourage students to attend competitive examinations, like GATE, CAT etc.
- Involve bright students for peer tutoring the weak students.

The following flow chart is used to support weak students and encourage bright students

Figure 2.2.1.6: The process used for encouraging bright students and assisting weak students

Impact Analysis:

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Department of Computer Science & Engineering

Name of the Faculty: K. Siva Krishna, Ch. Ravindra Babu
Subject: Object Oriented Analysis & Design

Academic year: 2021-22
Year / Sem : IV/I
Branch: CSE

IMPACT ANALYSIS of Weak Students

S.No	Roll No	REMIDIAL CLASSES			Other Activities	Mid-I Marks	Mid-II Marks	STATUS
		Conducted Classes	Attended Classes	%				
1	18KQ1A0501	5	5	100	Counselled, Motivated & Discussed Important Topics	9	15	Mid-II Marks got improved
2	18KQ1A0515	5	5	100	Counselled, Motivated & Discussed Important Topics	9	14	Mid-II Marks got improved
3	18KQ1A0520	5	5	100	Counselled, Motivated & Discussed Important Topics	10	17	Mid-II Marks got improved
4	18KQ1A0538	5	5	100	Counselled, Motivated & Discussed Important Topics	9	10	Mid-II Marks got improved
5	18KQ1A0544	5	4	80	Counselled, Motivated & Discussed Important Topics	7	16	Mid-II Marks got improved
6	18KQ1A0553	5	5	100	Counselled, Motivated & Discussed Important Topics	9	16	Mid-II Marks got improved
7	18KQ1A0557	5	5	100	Counselled, Motivated & Discussed Important Topics	6	12	Mid-II Marks got improved
8	18KQ1A0596	5	5	100	Counselled, Motivated & Discussed Important Topics	9	17	Mid-II Marks got improved
9	18KQ1A0597	5	5	100	Counselled, Motivated & Discussed Important Topics	3	10	Mid-II Marks got improved
10	18KQ1A0598	5	4	80	Counselled, Motivated & Discussed Important Topics	6	17	Mid-II Marks got improved
11	18KQ1A0599	5	5	100	Counselled, Motivated & Discussed Important Topics	9	17	Mid-II Marks got improved
12	18KQ1A05A0	5	5	100	Counselled, Motivated & Discussed Important Topics	9	16	Mid-II Marks got improved
13	18KQ1A05A3	5	5	100	Counselled, Motivated & Discussed Important Topics	10	13	Mid-II Marks got improved
14	18KQ1A05A9	5	5	100	Counselled, Motivated & Discussed Important Topics	9	15	Mid-II Marks got improved
15	18KQ1A05B6	5	5	100	Counselled, Motivated & Discussed Important Topics	9	14	Mid-II Marks got improved
16	18KQ1A05B9	5	5	100	Counselled, Motivated & Discussed Important Topics	9	16	Mid-II Marks got improved
17	18KQ1A05D5	5	5	100	Counselled, Motivated & Discussed Important Topics	9	14	Mid-II Marks got improved

S.No	Roll No	REMIDIAL CLASSES			Other Activities	Mid-I Marks	Mid-II Marks	STATUS
		Conducted Classes	Attended Classes	%				
18	18KQ1A05E5	5	4	80	Counselled, Motivated & Discussed Important Topics	10	16	Mid-II Marks got improved
19	18KQ1A05F1	5	5	100	Counselled, Motivated & Discussed Important Topics	9	12	Mid-II Marks got improved
20	18KQ1A05F2	5	5	100	Counselled, Motivated & Discussed Important Topics	9	13	Mid-II Marks got improved
21	18KQ1A05F4	5	5	100	Counselled, Motivated & Discussed Important Topics	10	12	Mid-II Marks got improved
22	18KQ1A05F6	5	5	100	Counselled, Motivated & Discussed Important Topics	9	10	Mid-II Marks got improved
23	18KQ1A05F8	5	5	100	Counselled, Motivated & Discussed Important Topics	10	18	Mid-II Marks got improved
24	18KQ1A05F9	5	5	100	Counselled, Motivated & Discussed Important Topics	9	10	Mid-II Marks got improved
25	18KQ1A05G1	5	5	100	Counselled, Motivated & Discussed Important Topics	9	17	Mid-II Marks got improved
26	18KQ1A05G2	5	5	100	Counselled, Motivated & Discussed Important Topics	9	16	Mid-II Marks got improved
27	18KQ1A05G3	5	5	100	Counselled, Motivated & Discussed Important Topics	6	14	Mid-II Marks got improved
28	18KQ1A05G5	5	5	100	Counselled, Motivated & Discussed Important Topics	2	10	Mid-II Marks got improved
29	18KQ1A05G8	5	5	100	Counselled, Motivated & Discussed Important Topics	9	17	Mid-II Marks got improved
30	18KQ1A05G9	5	5	100	Counselled, Motivated & Discussed Important Topics	7	14	Mid-II Marks got improved
31	18KQ1A0510	5	5	100	Counselled, Motivated & Discussed Important Topics	10	13	Mid-II Marks got improved

Number of Weak Students Identified	Number of Students Improved	Percentage students Improved
33	31	93.9

Signature of the faculty 1 Signature of the faculty 2 Signature of the HOD

Figure 2.2.1.7: Impact analysis of weak students

D.QUALITY OF CLASSROOM TEACHING

In the teaching-learning process, the lectures are delivered by the faculty member through a set of teaching aids and adopting various teaching methods.

Course Plan:

In the teaching learning process, the course plan plays a vital role. It is prepared by each faculty member handling their respective courses two weeks prior to the commencement of every semester. The course plan for each of the course is scrutinized by the PAQIC under the guidance of the Head of the Department.

All faculty members maintain the attendance diary and evaluation book for the course that they handle. The course plan contains the following details.

- Course plan includes course outcomes, teaching aids, teaching methods, learning outcomes, and mapping of outcomes and learning resources that can be effectively utilized for the best delivery.
- Based on the course plan, the delivery is recorded accordingly in the attendance diary and evaluation book and reviewed by the Head of the Department.
- The teaching-learning process is evaluated based on the data recorded in the attendance diary and evaluation book.
  - Vision & Mission of the Institute
  - Vision & Mission of the Department
  - PEOs, POs & PSOs
  - Syllabus of the Course
  - Course Outcome vs. PO, PSO Mapping
  - Academic Calendar
  - Individual Time Table
  - Lesson Plan
  - Student Nominal Roll
  - Student Attendance Register
  - Course Material
  - Question Bank
  - Assignment Questions
  - Class Room Test Questions
  - CIE Exam Question Paper
  - Sample Photocopy of CIE Answer Scripts (Best, Moderate, Worst)
  - Course Evaluation Procedure (Internal & External)
  - CIE Exam Performance
  - List of Slow & Advanced Learners
  - Remedial Classes for Slow learners
  - Model/Previous Year Question Paper
  - Gap Analysis & Content Beyond Syllabus
  - Course End Survey
  - Course Attainment Sheet

The above points are related to theory course and the lab courses also having some predefined points as follows:

- Vision & Mission of the Institute
- Vision & Mission of the Department

- PEOs POs & PSOs
- Syllabus of the Course
- Course Outcome vs. PO, PSO Mapping
- Academic Calendar
- Lab Time Table
- Lab Equipment (Consumable & Non-Consumable)
- Lab Layout
- Dos &Don'ts
- Attendance Register
- Student Log Register
- Demo Session Material (i.e. PPT...etc)
- Lab manual
- Lab Evaluation Procedure (Internal & External)
- Lab Observation
- Lab Record
- List of Experiments beyond the Syllabus
- Question Paper (Internal & External)
- Scope for conducting Case Studies
- Attainment Sheet

Every faculty in the department is strictly follows the plan and procedure to ensure the quality of teaching in the class rooms and labs

E. CONDUCT OF EXPERIMENTS (Observation in Lab)

Student's carryout extra experiments beyond the specified list.Detailed instruction manuals are provided to the students. The observations are checked and verified by faculty and record books are maintained systematically. Two/Three faculty members and one Lab technician are assigned for each practical session.

Figure 2.2.1.8: Students are doing the laboratory experiments during their lab session

F. CONTINUOUS ASSESSMENT IN LABORATORY

Continuous assessment system is also implemented for assessment of laboratory work. Students are instructed to maintain individual Laboratory assessment records. These records are checked and verified by faculty member before the commencement of each experiment. Viva voce is conducted for the students in order to test their knowledge in the experiment. The internal assessment marks are allotted based on Rubrics and the average marks is considered for awarding final internal assessment work.

Table 2.2.1.h: Allocation of internal laboratory marks for R18 regulation

S. No	Internal	Marks	External	Marks
1	Internal Lab Examination	10		
2	Record	05		
3	Day to day work	20	External Lab Exam	60
4	Viva-Voce	05		
	Total Marks	40		

G. STUDENT'S FEEDBACK OF TEACHING LEARNING PROCESS AND ACTION TAKEN

To improve the teaching learning process the feedback from the student is obtained every semester for every course. Common feedback system is designed at the institutional level for all the years by considering all the dimensions of the teaching-learning process. The feedback is collected online portal in middle of the every semester in all courses. Feedback is analysed by senior Professors along with the Head of the Department. After analysis, all comments written by the students in the feedback forms will be communicated to the respective faculty members along with their feedback level. Thereby teacher can know their strengths, weaknesses and improve their teaching skills accordingly.

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INTERNAL QUALITY ASSURANCE CELL(IQAC)

Department of Computer science & Engineering

Feedback of students on faculty (Theory course faculty)

A.Y: 2021-22 **Year & Sem:** **Branch& Sec:**

Phase:

IQAC conducts and records students' feedback on faculty to monitor the performance and interest in academic and other activities. So, rate the below questionnaires to the best of your knowledge.

Rate 0-4:

4 (Very Good)	3(Good)	2 (Average)	1(Poor)	0 (Very Poor)

Sl. No	Particulars	Course-1	Course- 2	Course- 3	Course-4	Course-5
	Course name					
1.	Syllabus of the subject					
2.	Subject knowledge of the faculty					
3.	Time sense of the faculty (class punctuality, syllabus coverage....etc)					
4.	Communication skills of the faculty (in terms of articulation and comprehensibility)					
5.	Accessibility of the faculty in and out of the class (includes availability of the teacher to motivate further study and discussion outside class)					
6.	Usage of ICT tools by faculty (Projectors, Online tools .... etc)					
7.	Class controlling by the faculty					
8.	Any other remarks					

Figure 2.2.1.9.a: Feedback of students on faculty on Theory Course

INTERNAL QUALITY ASSURANCE CELL(IQAC)

Department of Computer science & Engineering

Feedback on faculty by students (Lab course faculty)

A.Y: 2021-22 **Year & Sem:** **Branch & Sec:**

Phase:

Rate 0-4:

4 (Very Good)	3(Good)	2 (Average)	1(Poor)	0 (Very Poor)

Sl. No	Particulars	Lab -1	Lab - 2	Lab - 3
	Lab name			
1.	Lab experiments/ programs relation to real world			
2.	Knowledge of the faculty on the lab experiments/ programs			
3.	Helping students in conducting experiments/ programs			
4.	Takes interests in conduct of labs with viva, virtual labs, group discussions etc....			
5.	Regular checking of lab observations and records			
6.	Any other remarks			

Figure 2.2.1.9.b: Feedback of students on faculty on Lab Course

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INTERNAL QUALITY ASSURANCE CELL(IQAC)

Department of Computer science & Engineering

Feedback of students on Department/ Institution

A.Y: 2021-22 **Year & Sem:** **Branch & Sec:**

Phase:

Rate 0-4:

4 (Very Good)	3(Good)	2 (Average)	1(Poor)	0 (Very Poor)

Sl. No	Particulars	Rating
1.	Ambiance/ facilities in the department/ college	
2.	Conduction of co-curricular and extracurricular activities in department/college	
3.	Maintenance of discipline in department/college	
4.	Communication about activities and scholarships	
5.	Any other remarks	

Figure 2.2.1.9.c: Feedback of students on Department/Institution

Actions taken:

- Based on the feedback reports the faculty will be counselled by the HOD, who have secured low scores and negative comments. This motivates them to improve their skills and abilities.
- In some cases, the faculties having less feedback are recommended to attend FDPs on Pedagogical training and technical knowledge.
- If required training / orientation programs are conducted by professional experts to master the skills of the faculty members
- In some exceptional conditions **/** based on the instructions given by the HOD and request of the concerned faculty, senior Professors taught some concepts.
- The feedback is also considered as one of the component in annual increment process.

2.2.2 Quality of end semester examination, internal semester question papers, assignments and evaluation (15) Institute Marks : 15.00

2.2.2 Quality of end semester examination, internal semester question papers, assignments and evaluation (15)

A. Process for Internal Semester Question Paper Setting and Evaluation and Effective Process Implementation

Initiatives:

The examination process / Setting of quality question papers aims to measure the intellectual skills accomplished by the students as per Revised Bloom's Taxonomy levels

- Remembering
- Understanding
- Applying
- Analyzing
- Evaluating
- Creating

Assessing the performance of students over a well-distributed interval of time within the semester through continues evaluation.

Implementation Details:

Internal Examinations

- The internal examination question papers are prepared by the faculty involved in delivering the course for all sections.
- Question papers are prepared in a manner to cover all the COs of that particular course and Revised Bloom's Taxonomy will also be followed in question paper setting.
- The college conducts five assignment tests,five class room tests and two sessional tests in a semester for all courses: one at the middle and the other at the end of semester for theory courses as per the R-18 regulation.
- After completion of tests, the evaluated answer scripts are distributed to the students and an opportunity is given to the students to verify and the changes are rectified before the marks statement is finalized.

Semester End Examinations

- For each course of the program, semester end examination is conducted.
- The Controller/Coordinator of Examinations identifies the panel of question paper setters from premier institutes like NITs, State Universities, and Autonomous Colleges.
- The question papers are also scrutinized by the subject expert to ensure all questions were set from course syllabus and to identify insufficient data or typographical mistakes, if any in the question paper.

Evaluation:

As per the R-18 regulations, each theory course is evaluated for 100 marks, distributed into 40 marks for internal assessment and 60 marks for semester end examination.

Internal Examinations

- Every theory course consists of 5 units and for each course the internal assessment is done for 40 marks.
- The internal evaluation is based on two cycle tests conducted in each semester. The 40 internal marks are awarded as sum of 80**%** of the best cycle and **20%** of the least cycle examinations, where each cycle of examination contains the distribution as shown in Table 2.2.2.a.

Table 2.2.2.a: Distribution of internal Marks for theory course

S.No	Type of examination	Max Marks
1	Descriptive test	20
2	Objective test	10
3	Assignment test and CRT	10
Total Marks		**40**

- Each descriptive test question paper contains 4 questions one from each unit covering syllabus from 2.5 units (first 2.5 units for first cycle and remaining 2.5 units for second cycle). The student has to answer all the 4 questions (4X5M=2**0M**). The descriptive examination is conducted for 2 hour duration.
- Online Objective type test question paper contains 20 objective questions for 10 marks (20 X 1/2 M = 10M) covering the syllabus from 2.5 units. The Objective Examination is conducted for 20 minutes duration along with descriptive test.
- The evaluation for laboratory class work consists of,

Table 2.2.2.b: Distribution of internal Marks for laboratory course

Parameter	Marks
Day-to-Day work	20
Internal test	10
Record	05
Viva-Voce	05
Total	**40**

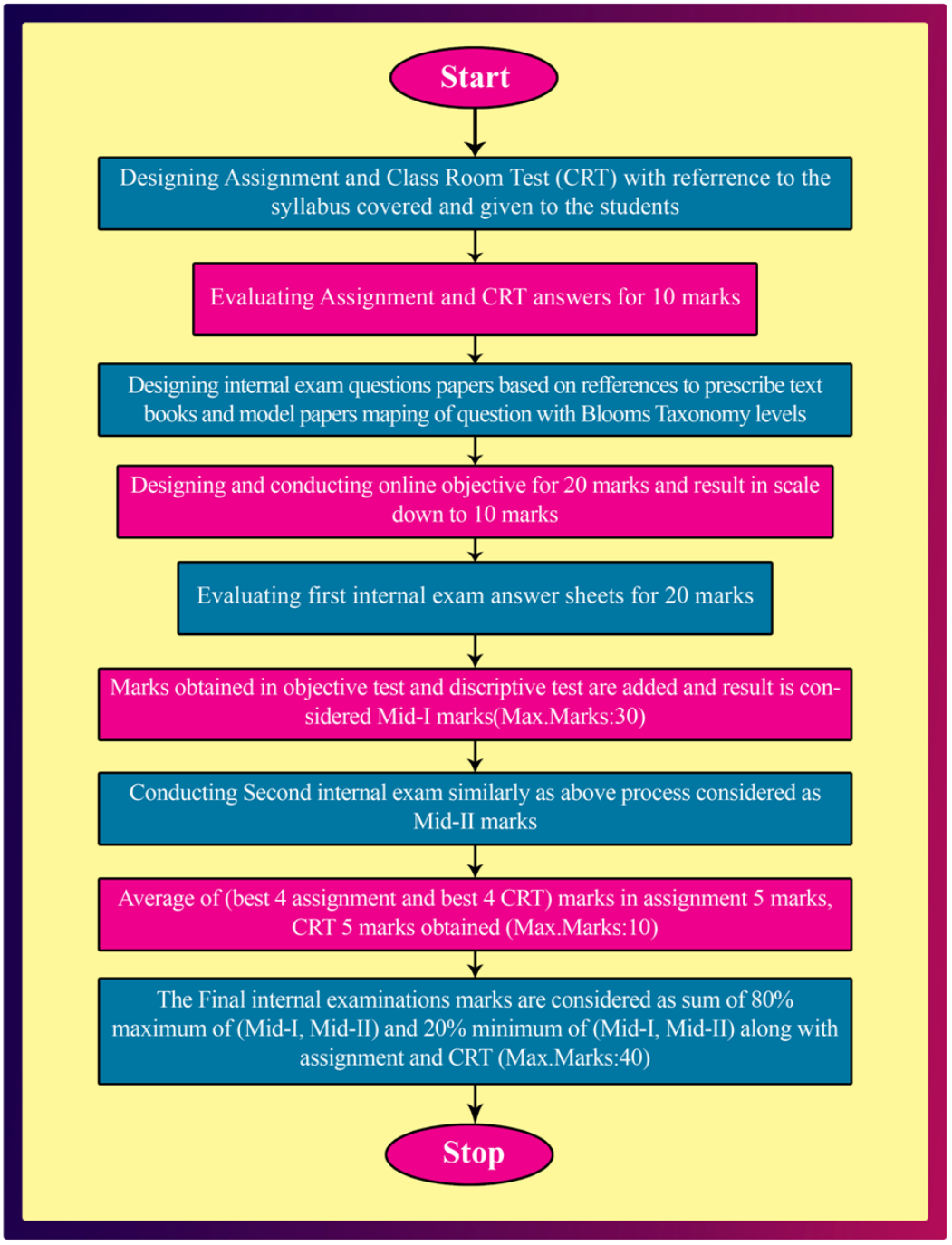

Figure 2.2.2.1: Process of internal evaluation systems

Semester End Examinations

- The valuation of answer booklets of the semester end examination is done by conducting the spot valuation by inviting the valuators from nearby autonomous institutions.
- For each course, a detailed key (solutions cum scheme of valuation) is prepared by one of the internal faculties, who has taught the subject in the current semester.
- In order to get uniformity in the valuation process, the normalization system is adopted

According to this system:

- All the valuators sit together to discuss and finalize a common scheme of valuation at the beginning of the assessment
- The Chief examiner picks one answer script, randomly for every 10 answer scripts and valuate the script
- The Chief examiner compares valuated marks with previous allotted marks and finalize the marks based on the probable deviation.
- If marks deviation exceeds then the Chief examiner advices the valuator to re-valuate the scripts.
- Revaluation of answer scripts is available, based on the students request.

B. Process to Ensure Questions from Outcomes/Learning Levels Perspective

- For all UG courses, internal question papers are scrutinized by the Pre-Exam Committee(PEC). The committee will verify whether the question papers which are prepared by the concerned faculty members according to the blooms taxonomy (BT) and course outcomes (COs). The committee will also give their suggestions and directions to ensure quality of question papers and evaluation scheme. The PEC approves the question papers in respect of Continuous Internal Evaluation tests. Students who answered a particular question is taken into consideration and average of all students marks is taken for CO-PO attainment.
- The Pre-Exam Committee(PEC) is formed with HOD and Senior faculty members of the department.
- The Committee ensures the quality of internal question papers, based on the course outcomes with proper blooms taxonomy levels.

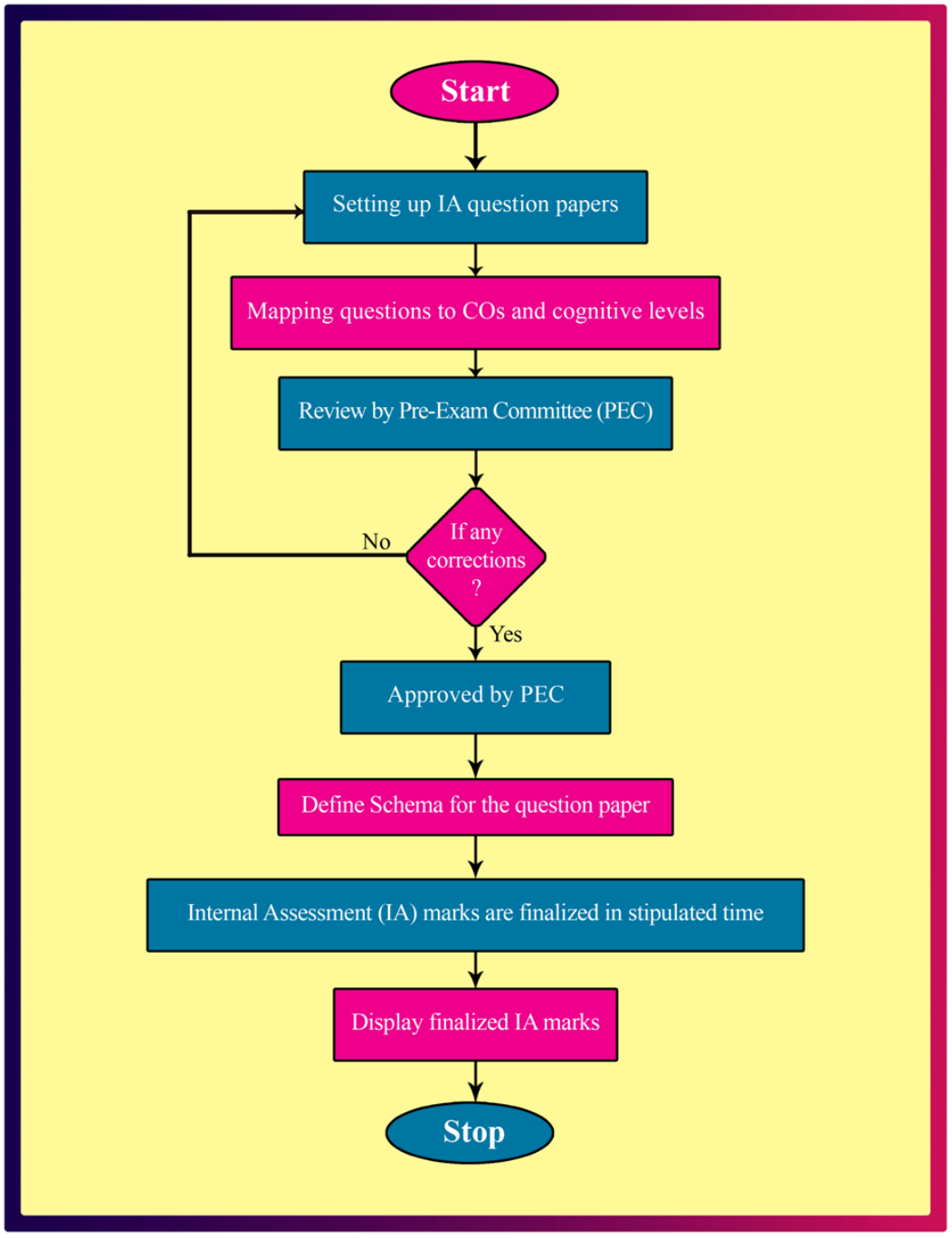

Figure 2.2.2.2: Flow chart of process for internal examination question paper setting and evaluation

C. Evidence of COs coverage in class test / mid-term tests

- The faculty members of concerned courses are instructed to give question papers with proper mapping of COs and Blooms taxonomy levels.
- The Sample Mid Exam Question paper is given below.

PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE **(AUTONOMOUS)**

III B.Tech II Semester – Descriptive Examination-II

HADOOP & BIG DATA (Common to CSIT & CSE Branch)

Subject Code: **P18CST11** Academic Year: 2021-22 R18 Regulation

Time: 2 hours Date of Exam: 30.05.2022 Max Marks: 20

*Answer **all** the questions. All Questions carry equal marks* **(4X5=20M)**

Q.N	Questions	Marks	BL	CO
1	Explain about Writable collections with examples.	5 M	L2	3
2	Illustrate the process of Working through the ABCs of Pig Latin	5 M	L3	4
3	Differentiate Hadoop and spark	5 M	L4	4
4	Write the java and Hive Script for the following? a. Create database d. select statement b. for each statement e. order by statement c. alter table statement f. Drop table statement	5 M	L1	5

Figure 2.2.2.3: Mid Examination Question Paper

D. Quality of conduct Assignment and its relevance to COs

- To conduct Assignment, the faculty members of concerned courses will give four (4) questions from each unit. A student shall submit five assignments with Viva Voce to the concerned faculty from all five units. Each question in the assignment will be mapped with CO and blooms taxonomy level.
- The Assignment shall be evaluated by the concerned faculty. The average of best four assignment marks shall be considered for awarding 5 marks.
- The feedback is given to the students after evaluation and answer scripts were given to the students for the verification. It impacts the students to improve their performance in further examinations.
- The Sample Assignment Questions are given below for one assignment.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Assignment Questions

A.Y: 2022 – 23 **Dt: 29/08/2022**

Name of the Subject: COMPUTER NETWORKS Branch: CSE Year / Sem : III / I

Q.No	Questions	Marks	BL	CO
1	Difference between LAN, WAN, MAN?	1M	L4	1
2	Explain OSI Model?	1M	L2	1
3	Explain TCP/IP Model?	1M	L2	1
4	Define computer network and write about uses of networks?	1M	L1	1

Figure 2.2.2.4: Sample copy of Assignment Paper

Impact Analysis

- The Pre-Exam Committee of the department analyzes the quality of question papers.
- The above process ensures that question papers are framed by considering all COs into account.
- Question papers are framed as per Bloom's taxonomy levels.
- The desired COs, POs and PSOs of each course are attained through adopting the above stated quality initiatives in question paper settings and assignments.

2.2.3 Quality of student projects (20) Institute Marks : 20.00

2.2.3 Quality of student projects (20)

The department follows standard procedures to ensure that students should carry out a quality project and the major project work is carried out by the students in VIII Semester and Mini project in VI Semester inR18regulations. Students are encouraged to do project work on real world examples.

A. IDENTIFICATION OF PROJECTS AND ALLOCATION METHODOLOGY TO FACULTY MEMBERS

Project Group formation:

- The students are categorised into batches based on their performance in the previous examinations.
- Each team or project batch consists of 4-5 students.
- Project batches are formed such that each batch has students with varying academic merit.

Identification of the Guide:

- Each batch selects their guide according to their area of interest and the research are and competency of the faculty members.
- Project identification is done based on student's innovative ideas in consultation with supervisor.
- The lists of previous year projects are available to the students in the department library and central library to ensure no repetition of project work in selecting the present project work.
- The students take guidance from their guides while finalizing the problem.

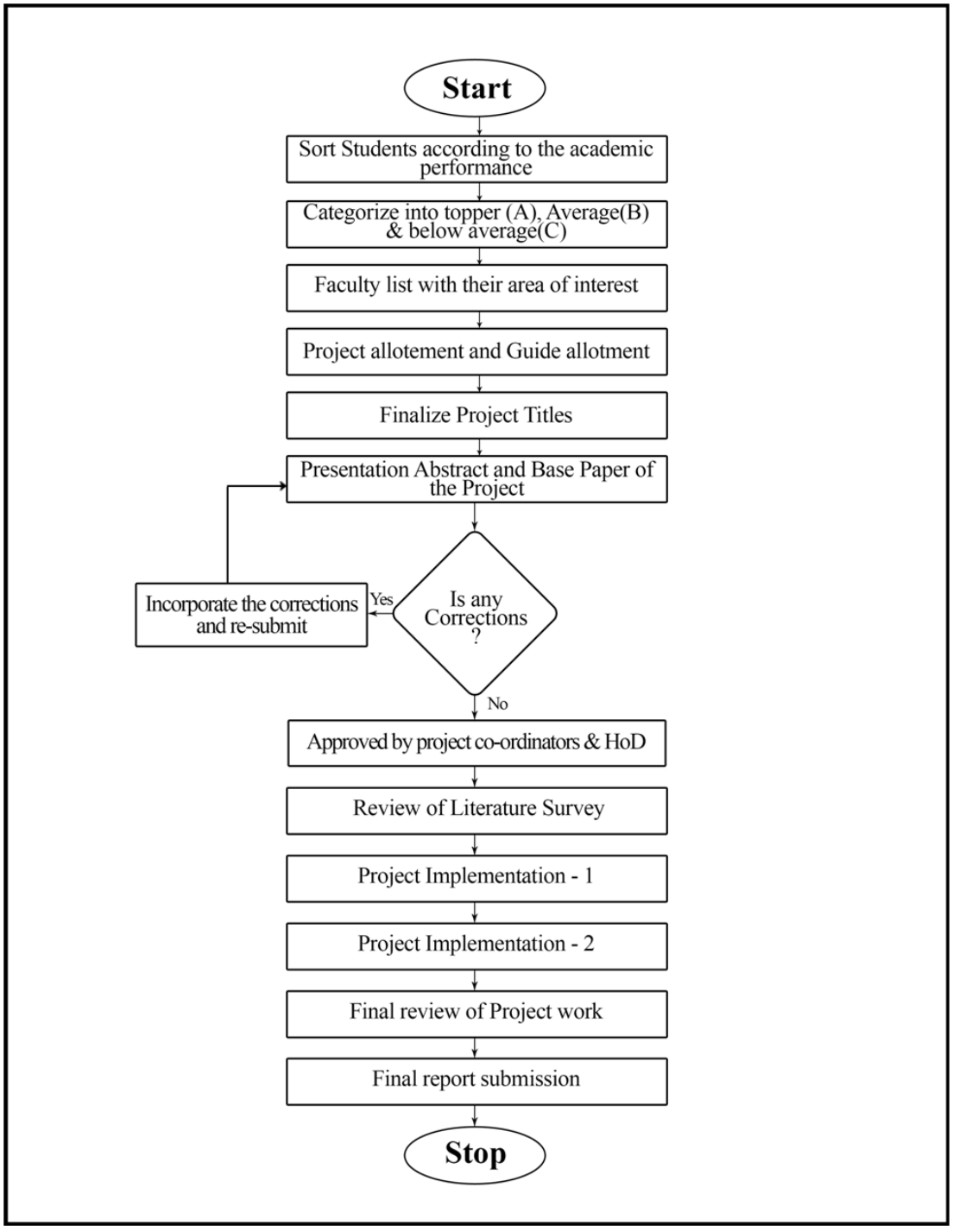

Figure2.2.3.1: The process used for project group formation, Guide allocation and Project Completion

B.TYPES AND RELEVANCE OF THE PROJECTS AND THEIR CONTRIBUTION TOWARDS ATTAINMENT OF POs AND PSOs

Table 2.2.3.a: List of various categories of student projects and their relevance with POs and PSOs

A. Y	Broad area of the project	No. of projects	Mapping POs	Mapping PSOs

2021-22	Machine Learning	27	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Android	7	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Network Security	4	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Image Processing with Machine Learning	2	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Image Processing	2	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Software Testing	2	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Block Chain	1	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Cloud Computing	1	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Deep Learning	1	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
2020-21	Machine Learning	18	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Network Security	2	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Android	2	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Image Processing with Machine Learning	2	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Image Processing with Deep Learning	1	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Image Processing	1	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Data Science	1	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Cyber Security	1	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Internet of Things	1	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
2019-20	Machine Learning	7	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Network Security	5	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Cloud Computing	5	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Internet of Things	5	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2
	Big Data	4	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9, PO10,PO11,PO12	PSO1,PSO2

C. PROJECT RELATED TO INDUSTRY

The students are allowed to do the project in the industry, based on the opportunity got from industry.

Table 2.2.3.b: Details of industry related projects

S.No.	Name of the Student	Name of the project	Date(s)	Organization
1	Mr.V. Naga Nitish	Credit Card Fraud Detection Using Data Science	02/08/2022-09/08/2022	Pantech E-Learning Pvt.Ltd
2	Ms.S. Bhavya Deepika	Credit Card Fraud Detection Using Data Science	02/08/2022-09/08/2022	Pantech E-Learning Pvt.Ltd
3	Ms.B.Sireesha	SMS Spam Detection Using Data Science	02/08/2022-09/08/2022	Pantech E-Learning Pvt. Ltd
4	Ms. K. Varsha	SMS Spam Detection Using Data Science	02/08/2022-09/08/2022	Pantech E-Learning Pvt.Ltd
5	Mr. Ch. V. Vamsi Krishna	Customer Purchase Prediction using GUI	02/08/2022-09/08/2022	Pantech E-Learning Pvt.Ltd
6	Ms.T. Lakshmi Hymavathi	Customer Purchase Prediction using GUI	02/08/2022-09/08/2022	Pantech E-Learning Pvt.Ltd
7	Ms. I. Nandini	Multiplex Regulation System with Personalized recommendation using ML	02/08/2022-09/08/2022	Pantech E-Learning Pvt.Ltd
8	Mr.V.Harish	Multiplex Regulation System with Personalized recommendation using ML	02/08/2022-09/08/2022	Pantech E-Learning Pvt.Ltd

D. PROCESS FOR MONITORING AND EVALUATION

According to R-18 Regulations:

- Major project is evaluated for total of 200 marks. Out of 200 marks for the project work, 80 marks are for Internal Evaluation consisting of literature review, contribution, innovation, presentation and viva-voce. The assessment of the project report and 120 marks for the external evaluation.
- Mini Project is evaluated for total of 100 marks. Out of 100 marks, 30 Mini project report, 25 marks for innovation, 25 marks for presentation and 20 marks for viva-voce.

Internal Evaluation

- The department forms Project Review Committee (PRC) every year and it consists of Head of the department as Chair, senior faculty members and project coordinator as members.
- A project coordinator is appointed by the Head of the Department who is responsible for planning, scheduling and execution of all activities related to the project.
- The project coordinator instructs the students to select the project domain and submit the synopsis to concern guide adhering to the timelines decided by the HOD.
- Department encourages the students to carry out in-house projects and required support is provided through continuous hands-on trainings by internal as well as external experts.
- The students are asked to meet their respective guides regularly and asked to explain the progress in their project.
- Project reviews are conducted regularly by the PRC of the department in the presence of respective guide to check the status of the projects and time to time assessment is done for all the projects.
- Project teams have to submit the project report in the prescribed format given by the departemnt.

The performance of a student in a project survey shall be evaluated based on the following parameters:

Parameter	**Marks**
Literature Review	15
Presentation	15
Viva Voce	10
Total	**40**

Two Project Implementation Reviews are evaluated based on the following parameters:

Parameter	**Marks**
Contribution	10
Innovation	10
Presentation	10
Viva Voce	10
Total	**40**

External evaluation

- An end semester project, viva voce is conducted with the panel of internal and external examiners. The external examiner from other institution is appointed by the Chief Controller of Examinations.

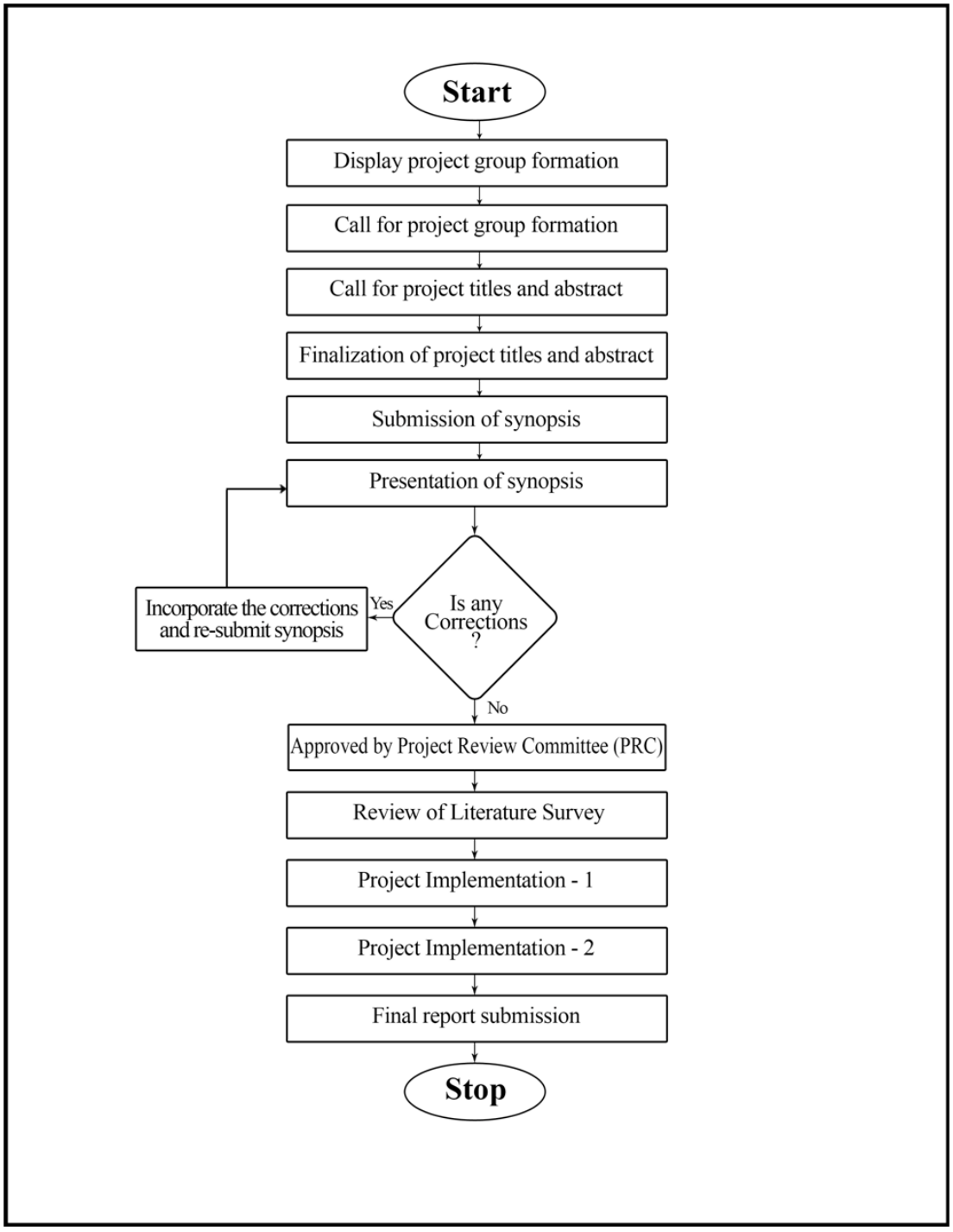

Figure 2.2.3.2: Process for defining the student projects approval and evaluation

E. PROCESS TO ASSESS INDIVIDUAL AND TEAM PERFORMANCE

Project reviews are conducted by PRC along with respective guide as per the schedule and presentation should be given by all team members according to their division of project work. The performance of the individual and team of the project is assessed at the time of presentation in reviews by considering the following criteria.

The performance of the individual is assessed by considering the following criteria:

- Communication
- Confidence in the project work
- Attainment of individual scope of work
- Overall contribution of the project accomplishment

The performance of the project team is assessed by considering the following criteria:

- Knowledge of the members contribution towards the project
- Coordination in consolidating the work
- Time management

F. QUALITY OF COMPLETED PROJECTS/ WORKING PROTOTYPES

Project Review Committee (PRC) ensures the quality of the student projects based on the following criteria.

- Review of literature and related studies
- Innovativeness and creativity
- Implementation strategies
- Presentation skills
- Impact on society

1. The students will demonstrate the working prototype models during the internal and external project reviews
2. Outcomes of the projects are encouraged to be published as a paper in conference / journals.

3. Students are encouraged to publish their project work in reputed journals/conferences.

Table 2.2.3.f: Best projects of the students

A.Y 2021-2022						
S. No	**Title of the project**	**Students**	**Area of the Project**	**Project Guide**	**POs**	**PSOs**
1	Cryptocurrency prediction with python using Machine learning	Balisetty Naga Nikitha Addanki Sudha Maheswari Dudekula Shameena Bandaru Poojasri	Machine Learning	Mrs. Heena Kauser	PO1, PO2, PO3, PO4, PO5,PO8, PO9, PO10,PO12	PSO1,PSO2
2	Traffic Signs Recognization Using CNN	Vaka Neelima Cherukuri Nayomi Arla Prasanna Kumari Munnangi Ravi Teja	Machine Learning	Mr.K.Siva Krishna	PO1, PO2, PO3, PO4, PO5, PO8,PO9, PO10,PO12	PSO1,PSO2
3	Using ml algorithms detection of spam messages	Gaddam Chakradhar Reddy Ramanadham Rohith Kumar Pikkili Siva Kasi Navuluri Sarath Chandra	Machine Learning	Mr. R. Pavan Kumar	PO1, PO2, PO3, PO4, PO5, PO8,PO9, PO10,PO12	PSO1,PSO2
4	Age and Gender Classification by CNN and OpenCV	Keerthi Gayatri Muttum Venkata Yamini Ukkadapu Thanmayee Medikonda Bhagya Jyothi	Deep Learning	Dr. M. Srinivasa Rao	PO1, PO2, PO3, PO4, PO5,PO8, PO9, PO10,PO12	PSO1,PSO2
5	Stock price prediction	G.Bala Krishna E.Raghunath Reddy K.Sai Prakash G.Johnson	Machine Learning	Dr. Sk. Pattan Hussian	PO1, PO2, PO3, PO4, PO5,PO8, PO9, PO10,PO12	PSO1,PSO2

A.Y 2020-2021						
S. No	**Title of the project**	**Students**	**Area of the Project**	**Project Guide**	**PO**	**PSO**
1	Covid-19 future forecasting using Machine Learning	Vayila Anjali Dharanikota Vedasri Golla Nagasree Ramineni Swetha	Machine Learning	Dr. M. Srinivasa Rao	PO1, PO2, PO3, PO4, PO5, PO6,PO7,PO8,PO9, PO10,PO12	PSO1,PSO2
2	Detection of Cyber attack in Network Using Machine Learning Techniques	Sripati Maheswari Jada Esther Rani Maeddy Vani Priya Shaik Farheen	Machine Learning	Mr. S. GiriBabu	PO1, PO2, PO3, PO4, PO5, PO6,PO7,PO8,PO9,PO10, PO12	PSO1,PSO2
3	Scalable and Secure Big data IOT System Based on Multifactor Authentication and lightweight Cryptography	Pittu Amrutha Gayathri Nuthalapati Bhargavi Vaddarapu Thriveni Guntaka Narasa Kumari	IOT	Mr. D. Anandam	PO1, PO2, PO3, PO4, PO5, PO8,PO9, PO10,PO12	PSO1,PSO2
4	Facial expression recognition and their temporal segments from face profile image sequences using yolo object detection algorithms	Sriram Divya Sai Pundla Amulya Akula Navya Maddela Chandana	Image Processing with Machine Learning	Mr. K.Siva Krishna	PO1, PO2, PO3, PO4, PO5,PO8, PO9, PO10,PO12	PSO1,PSO2

5	Automatic Attendance System Using Face Recognition Technique (Python)	Cheemaladinne Avanthika Shaik Asika Jajula Sandya Kandula Chandra Surekha	Machine Learning	Dr. Md.Shabana	PO1, PO2, PO3, PO4, PO5,PO8, PO9, PO10,PO12	PSO1,PSO2

A.Y 2019-2020

S. No	Title of the project	Students	Area of the Project	Project Guide	PO	PSO
1	An IOT Based Intelligence Smart Dust Bin	G Venkateswarlu Manam Eswar Kumar Kodavatikanti Bhaskar Govela Vamsi	IOT	Mr.S.Giribabu	PO1, PO2, PO3, PO4, PO5, PO8,PO9, PO10,PO12	PSO1,PSO2
2	Consensus of Anonymous Authentication for storing of decentralized data in clouds	K Chencharao D.V.N.A.S. Yaswanth P Syamson K.Naveen	Cloud Computing	Dr.S.Rajan and	PO1, PO2, PO3, PO4, PO5,PO8, PO9, PO10,PO12	PSO1,PSO2
3	Credit card fraud detection using spark streaming	Ponduri Mounika Annam Manasa Rani Medam Priyanka D Sai Samyuktha	Big Data	Dr.M.Srinivasa Rao	PO1, PO2, PO3, PO4, PO5,PO6,PO7,PO8, PO9, PO10,PO12	PSO1,PSO2
4	Face Detection and Recognition For Automatic Attendance System Using Artificial Intelligence Concept	Kundam Anuhya G Venkata Padma Putta Mamatha E Santhipriya	Machine Learning	Dr. T. R. Chaithanya	PO1, PO2, PO3, PO4, PO5, PO8,PO9, PO10,PO12	PSO1,PSO2
5	Digital Media Marketing using Trend Analysis On Social Media	Damarla Raghu Ram Shaik Karimulla Kota Sai Abhinav D Omakar Reddy Mangalapuri Jaswanth Pal	Machine Learning	Mr.G.Srinivasa Rao	PO1, PO2, PO3, PO4, PO5,PO8, PO9, PO10,PO12	PSO1,PSO2

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G.EVIDENCE OF PAPERS PUBLISHED / AWARDS RECEIVED BY PROJECTS etc.

- Students are encouraged to publish paper of their innovative project work in Conferences/journals.
- Students are encouraged to attend the National or International Conferences to gain more ideas of their projects.

Table 2.2.3.g: Paper publications based on the projects

S.NO	No.of Papers	Academic Year
1	9	2021-22

Impact Analysis

- Knowledge on various aspects of project management was developed.
- Increased confidence level of students.
- Students learn how to work in a group.
- New innovative ideas from students which may lead to new applications.
- Technical skills and communication skills of the students are improved.
- Implementation and deployment of the project for social benefits.
- Students will be able to learn importance of project documentation and presentation.
- Documentation and presentation skills of the students are improved.

2.2.4 Initiatives related to industry interaction (10) Institute Marks : 10.00

2.2.4 Initiatives related to industry interaction (10)

Industry interactions help the students to acquire the practical knowledge. So in order to improve the technical abilities, various industrial activities are carried out. To promote Industry-Institute Interaction, the following initiatives are being undertaken by the department:

INITIATIVES

- An expert from Industry is nominated as member in the Board of Studies who takes an active role in the Curriculum design.
- Campus Recruitment Training (CRT) programs organized by Training & Placement (T & P) cell.
- To Conduct of Technical Workshops jointly with Industries.
- Providing Value added courses in collaboration with Industries.
- Organizing lectures by Industrial Experts.
- Industry Sponsored Laboratories.
- Industrial tours.
- Memorandum of Understanding with industries.

IMPLEMENTATION DETAILS

Memorandum of Understanding with Industries:

The institution has MOUs with various industries to strengthen the relationships for mutual benefit by way of exchanging the expertise. MOUs are done with an emphasize on Internship, Project Work for Students, Industrial Visits, Students specific Training and Faculty Development Programs.

Table 2.2.4.a: List of Industries with which the Institute has entered into MOUs for the department of CSE

S. No.	Name and Address of Organization	Date of MoU	Period	Nature of MOU
1	Institute of Management and Foreign Studies(IMFS)	26/10/2022	2 years	Higher Studies
2	Edu Skills	25/05/2022	3 years	Skill Development(Internships)
3	Hexaware	10/03/2022	3 years	Placements
4	Bosch	20/01/2022	2 years	Training & Skill Development
5	Xplore Placement Club	05/08/2021	1 year	Students Assessment & Placements
6	Code Tantra	07/08/2019	1 year	Skill Development
7	APSSDC	24/07/2019	3 years	Training & Skill Development
8	CISCO	14/10/2018	1 year	Cisco N/W Academy Certifications
9	Spoken Tutorials	28/08/2018	1 year	Certification MOOCS
10	New Mexico State University	01/11/2018	5 Years	Research Activities, Exchange of students and faculty.

A.Industry Supported Laboratories

The industry supported laboratories develop best learning process to understand industry's best practices for both students and faculties. The department has the following Industry supported laboratories.

1. **Cloud Services Lab:**

Cloud Services Lab was established in college premises named as Cloud computing Lab. This Lab provides the industrial knowledge to the students on various cloud technologies like AWS, Microsoft Azure and Google Cloud Platform. The objective of this lab is to provide hands on training to the students on AWS Services in virtual mode and encouraging the students to take the certification exam to improve their knowledge on cloud and helped to get the placement specific skill.

Figure 2.2.4.1.a Training on AWS certification course

Figure 2.2.4.1.b Sample Copy of AWS certification Certificate

2. Internet of Things Lab:

Internet of Things Lab was established in college premises and providing the students to impart industrial knowledge. The objective of this lab is to provide hands on training to the students on IoT applications.

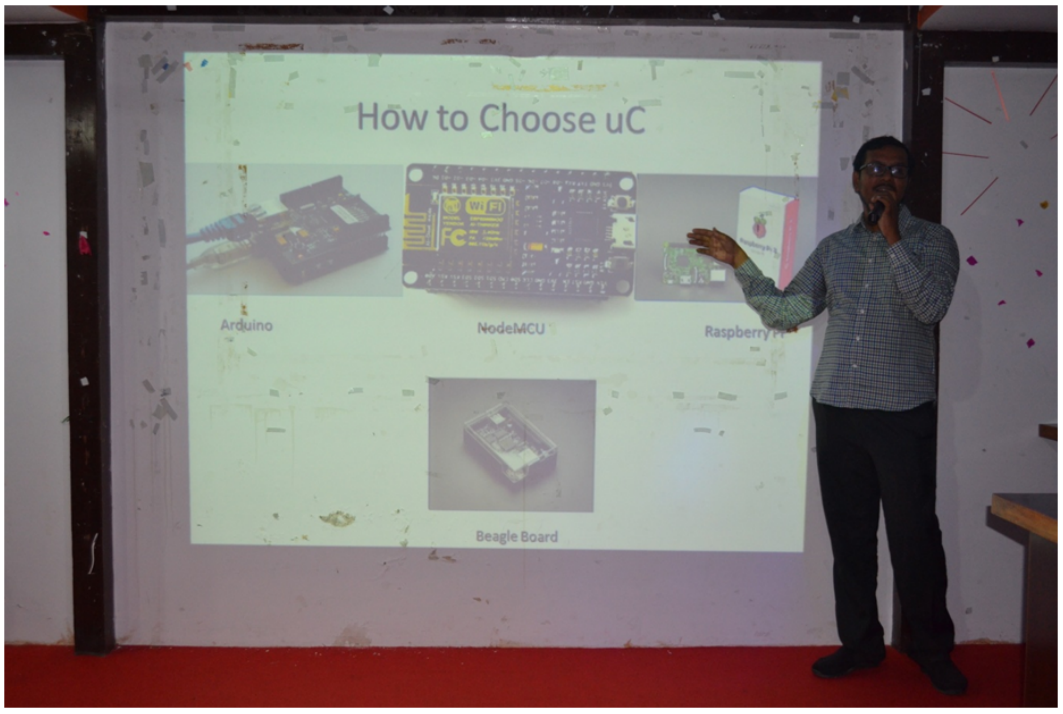


Figure 2.2.4.2.a Workshop on IOT applications

Figure 2.2.4.2.b Training in IOT Workshop

3. APSSDC Training Lab:

APSSDC has been helping students and faculty to produce more employable and industry ready professionals. The main objective of this lab is to organize workshops to the students on different platforms.

Figure 2.2.4.3 APSSDC - Python Programming Workshop

Table 2.2.4.b: Training programs organized by APSSDC

A.Y: 2020-21				
S.No	**Name of the Programme**	**Organized by /Resource Person(s)**	**Date(s)**	**Targeted Participants**
1	Workshop on Python Programming	Mr.P.Anil , Mr.M.Ramu Technical Skill Developers-APSSDC	04/01/2021-09/01/2021	II B.Tech
2	Online Workshop on Source Code Management	Mr.P.Anil Technical Skill Developer-APSSDC	28/06/2021-03/07/2021	III B.Tech
A.Y: 2019-20				
1	Workshop on Advanced Python Programming	Mr.T.Ravikishore & Mr. M. Satayanarayana Technical Trainers- APSSDC	22/07/2019-24/07/2019	II B.Tech
2	Workshop on Google Android Fundamentals	Mr. P. Mastan Vali, Mr. R. Siva Nagaraju Multiskill Trainers-APSSDC	09/03/2020-14/03/2020	II B.Tech

B. Industry Involvement in the Program Design and Curriculum

The Industry involvement in the Program design and Curriculum is required to bridge the gap between industry and institute. By partial delivery of courses at the institution is also required to prepare the students for employment. The department appoints industrial experts as members of Board of Studies to involve in designing the program. The list of invited industrial experts who are involved in design of curriculum and syllabi of the programme is listed below.

Table 2.2.4.c: List of invited industrial experts involved in curriculum design

S. No	Name of the Expert	Designation	Organization	Duration
1	Mr.Ch. Vamsi Krishna	Assistant Vice President	Bank of Singapore, Hyderabad	2022-23
2	Mr. U. Sai Manohar	Team Leader	McAfee Software Pvt. Ltd, Bangalore	2021-22
3	Mr. U. Sai Manohar	Team Leader	McAfee Software Pvt. Ltd, Bangalore	2020-21
4	Mr. U. Sai Manohar	Team Leader	McAfee Software Pvt. Ltd, Bangalore	2019-20

C. Industry Involvement in Partial Delivery of Any Regular Courses for Students

Guest lectures and workshops by industrial experts are one of the best practices which help the student to know about recent trends in industries related to their courses. The effectiveness of course delivery by the industry expert is monitored for improvement in student's knowledge on different latest technologies.

Table 2.2.4.d: List of Programs conducted by Industry Experts

A.Y 2022-23					
S.No	**Name of the Industry Expert**	**Designation**	**Name of the Organization/Place of work**	**Date of Visit**	**Purpose of Visit**
1	Mr.N.Jairam Desik	Data Engineer	Tata Consultancy Services-Thiruvananthapuram	18/11/2022 - 22/11/2022	5-Days workshop on Python & SQL FOR Data Science
2	Mr. Nikhil Reddy	Data Scientist	Technocrates IT, Hyderabad	27/01/2023	1-Day Guest Lecture on Machine learning Algorithms
3	Mr.A.M Ashok Kumar	Project Head	Zebros Electronics India Pvt.Ltd, Chennai.	06/02/2023 - 08/02/2023	3-Day Workshop on IOT applications
A.Y 2021-22					
1	Ms. Lakshmi	Technical Trainer	Pantech E-Solutions-Hyderabad	18/11/2021 - 19/11/2021	2 Day Online Workshop on Covid-19 High Disease Prediction Using Random Forest & XG Boost Classifier
2	Mr.Ch.Venkat Sai , Ms.P.Nikitha	Senior Manager,Senior Development Manager	Vezero EduTech Pvt.Ltd- Banglore with CSI & IIC	13/11/2021	A Webinar on Internship Opportunities
3	Mr. Palvinder Singh, Mr.Harnam Singh	Security Analysts	Secuneus Technologies Pvt.Ltd- Punjab with APITA-Govt.of.AP	13/12/2021 - 17/12/2021	1-Week Workshop on COMPTIA Security
4	Mr.K.Sivaiah	Staff Consultant	ORACLE-Banglore	17/06/2022	Online Guest Lecture on AWS Services
5	Mr.K.Suresh	Senior Software Engineer	Deloitte-Hyderabad	06/06/2022	Online Guest Lecture on Microsoft Azure Fundamentals
A.Y 2020-21					
1	Mr.P.Anil ,Mr.M.Ramu	Technical Skill Developers	APSSDC-Vijayawada	04/01/2021 - 09/01/2021	1-Week Workshop on Python Programming
2	Mrs. Saba Farheen Munshi	Technical Trainer	Pantech E-Learning-Hyderabad	25/06/2021	A Webinar on Block Chain and Applications
3	Mr.P.Anil	Technical Skill Developer	APSSDC-Vijayawada	28/06/2021 - 03/07/2021	1-Week Online Workshop on Source Code Management Using Git & Git Hub
4	Mrs. Sunanda Gundavajhala	Director of Operations	BrainOvision-Hyderabad	5/07/2021-10/07/2021	1-Week Online Workshop on React JS
A.Y 2019-20					
1	Mr.T.Ravikishore & Mr. M. Satayanarayana	Technical Trainer	APSSDC-Vijayawada	22/07/2019 - 24/07/2019	3 Days Workshop on Advanced Python Programming

2	Mr.T.Mohan Krishna	Technical Head	APITA-Govt.of.A.P	12/08/2019 -13/08/2019	2 Days Workshop on IBM Blue Mix (Cloud Computing)
3	Mr. Kumud Ramkan	Training Manager	IIT Bombay	06/09/2019	1- Day Workshop on FOSS
4	Mr.Y.L.V Abhinav & Mr. V. Siva Kumar	Data Scientists	Multiplier Solutions-Hyderabad	18/09/2019 -20/9/2019	3 Day-Workshop on Machine Learning with Data Science
5	Mr.K.Bapuji	CEO	Appleton Innovations-Vishakhapatnam	14/10/2019 - 15/10/2019	2 Day-Workshop on Internet of Things
6	Mr. P. Mastan Vali, Mr. R. Siva Nagaraju	Multiskill Trainers	APSSDC-Vijayawada	09/03/2020 - 14/03/2020	6-Days Workshop on Google Android Fundamentals

D. IMPACT ANALYSIS OF INDUSTRY INSTITUTE INTERACTION AND ACTIONS TAKEN THEREOF

- The students of CSE department have shown keen interest to participate in guest lectures, workshops and training offered by different industries. It helps to acquire industrial knowledge to identify and solve real time problems.
- Students picked up what they learnt at the workshops to implement their own mini project and also final year projects.
- The effectiveness of this practice can be assessed by the great response of the participants of the workshops/ trainings and App development competitions. Students implement their learning in final year projects.
- Students get more exposure to show their entrepreneurial spirit and project-based thinking.
- By guest lecturers/workshops delivered by the experts from industry and alumni, awareness is created on the latest developments and trends of the industry by which the students can plan for their placement activities.
- Have an edge in the job market.
- More focused growth for students.
- Easy transition into a job.

Table 2.2.4.e: Impact analysis of industry institute interaction

S.NO	Academic Year	No. of Programs (Workshops, Guest Lectures, Training Programs, Seminars, Webinars) Organized in Collaboration With Industry	No. of Certifications Completed by Students (CISCO, , NPTEL,SPOKEN TUTORAIL ,CODE TANTRA and Other Short term Courses)	No. of Students Got Placed
1	2022-23	3	251	57
2	2021-22	5	470	138
3	2020-21	4	252	86
4	2019-20	6	191	68

2.2.5 Initiatives related to industry internship/summer training (10) Institute Marks : 10.00

2.2.5 Initiatives related to industry internship/summer training (10)

IMPLEMENTATION:

A. **Industrial training/tours for students**

Industrial Trainings are organized for students to bridge the gap between theoretical learning and practical training in a real time environment. Students understand the industrial practices and organizational hierarchy during their visits. The following table shows the various industrial visits details.

Industrial Visits by Students

- Industrial visits give greater clarity about the importance of Computer Science & Engineering concepts. The students will practically experience these concepts.
- Industrial tours are organized for students to provide an insight into the technology used in industries.
- Learning from textbooks, lectures and other study material does not suffice for holistic learning. Practical and hands-on learning is essential for better understanding the processes
- As the faculty from CSE department accompanied the students during the industrial tour, the industrial visit helps the faculty to correlate between theoretical and practical learning.

The following table gives the details of industries visited by students for study of industrial processes.

Table 2.2.5.a: List of industries visited by students

S.No	Academic Year	Batch/ Year	Name Of The Company Visited	Date Of Visit	No. Of Students
1	2022-2023	2019	Jaaji Technologies	14/02/2023	40
2	2020-2021	2018	Snovasys Software Solutions	01/4/2021	40
3	2019-2020	2017	MIRACLE Software Systems	04/02/2020	45

Figure: 2.2.5.1.a Jaaji Technologies industrial visit

Figure: 2.2.5.1.b Snovasys Software Solutions industrial visit

Figure: 2.2.5.1.c MIRACLE Software Systems industrial Visit

B.**Industrial /internship /summer training of more than two weeks and post training Assessment**

Internship is a part of the curriculum. Internship must involve practical work relates to industry practices. The Students shall undergo internship for a period of minimum 4weeks continuously at the end of IV Semester and shall be evaluated in V semester. The internship can be carried out at premier institutions/ research laboratories/industries. If they fail to get internship from the industry, the department will arrange practical training program by industry experts. Faculty members give their guidelines, suggestions and scope of an internship. They also help the students by interacting with the industrial experts, provide the students recommendation letters and other necessary support. The alumni coordinator constantly interacts with alumni those who are working in the industries and request them to provide necessary guidelines and support for the students for internship.

Table 2.2.5.b: List of internships attended by the students

SNO	COMPANY NAME	NO. OF STUDENTS	DURATION
A.Y 2022-2023			
1	APSSDC	168	4-8 WEEKS
2	VERZEO	10	4-8 WEEKS
3	IIT KANPUR	1	4-8 WEEKS
4	SMART KNOWER IIT BOMBAY	1	4-8 WEEKS
5	INTERNSHALA	2	4-8 WEEKS
6	SUVEN CONSULTANTS & TECHNOLOGY PVT.LTD	1	4-8 WEEKS
7	UDEMY	1	4-8 WEEKS
	Total	**184**	
A.Y 2021-2022			
1	CODE TANTRA	80	4-8 WEEKS
2	BRAINOVISION SOLUTIONS	58	4-8 WEEKS
3	NSIC	23	4-8 WEEKS
4	LEARNING LINKS FOUNDATION	5	4-8 WEEKS
5	SUVEN	5	4-8 WEEKS
6	AZURE SKYNET SOLUTIONS	5	4-8 WEEKS
7	IIITD&M	1	4-8 WEEKS
8	KPMG	1	4-8 WEEKS
9	KKCC	1	4-8 WEEKS
10	FARM 360	1	4-8 WEEKS
11	THE NATIONAL SMALL INDUSTRIES	1	4-8 WEEKS
12	ADVANCED CYBER RANGE SERVICES	1	4-8 WEEKS
13	JPMORGAN CHASE & CO	1	4-8 WEEKS
	Total	**183**	
A.Y 2020-2021			
1	SNOVASYS	**41**	4-8 WEEKS
A.Y 2019-2020			
1	SNOVASYS	**32**	4-8 WEEKS

Assessment for Internship:

Internship of the student shall be assessed for 100 marks for R18. A student shall submit a report on the training undergone, along with a certificate from the organization. A three-member committee constituted by the HOD shall finalize the CIE marks based on the following parameters:

Out of 100 marks, 50 marks shall be awarded for Internship Report and for presentation 30 marks shall be awarded and for Viva-Voce 20 marks shall be awarded.

Table 2.2.5.c: Weightage of marks for Internship for R18

S. No.	Parameter	Marks
1	Internship Report	50
2	Presentation	30
3	Viva voce	20
	Total Marks	**100**

C.Impact analysis of industrial training

The following is the impact analysis observed on Industry Institute interactions

- Knowledge gained during internship program helped the students to implement in their project work.
- This internship program will be helpful in obtaining jobs.

- The students' technical skills are improved.
- Students have an edge in the job market
- The students placement percentage has improved
- Students gained valuable work experience.
- Students gained the basic skills needed for the development of real world projects.

Table 2.2.5.d: Impact Analysis of Industrial Training

S.NO	ACEDEMIC YEAR-BATCH	TOTAL STRENGTH	NO.OF STUDENTS COMPLETED INTERNSHIP	NO.OF STUDENTS GOT PLACED BY INTERNSHIP	PERCENTAGE OF STUDENTS GOT PLACED BY INTERNSHIP
1	2019-20(16KQ)	106	32	17	53.12
2	2020-21(17KQ)	126	41	25	60.97
3	2021-22(18KQ)	185	183	138	75.4
4	2022-23(19KQ)	199	184	57	30.97

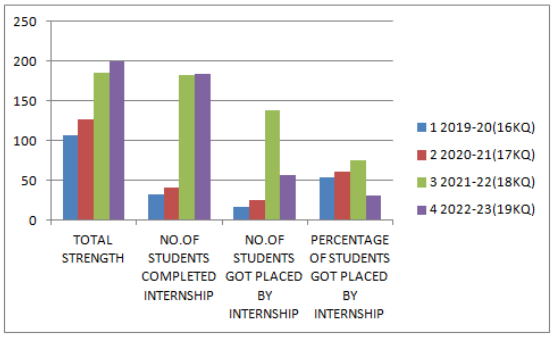
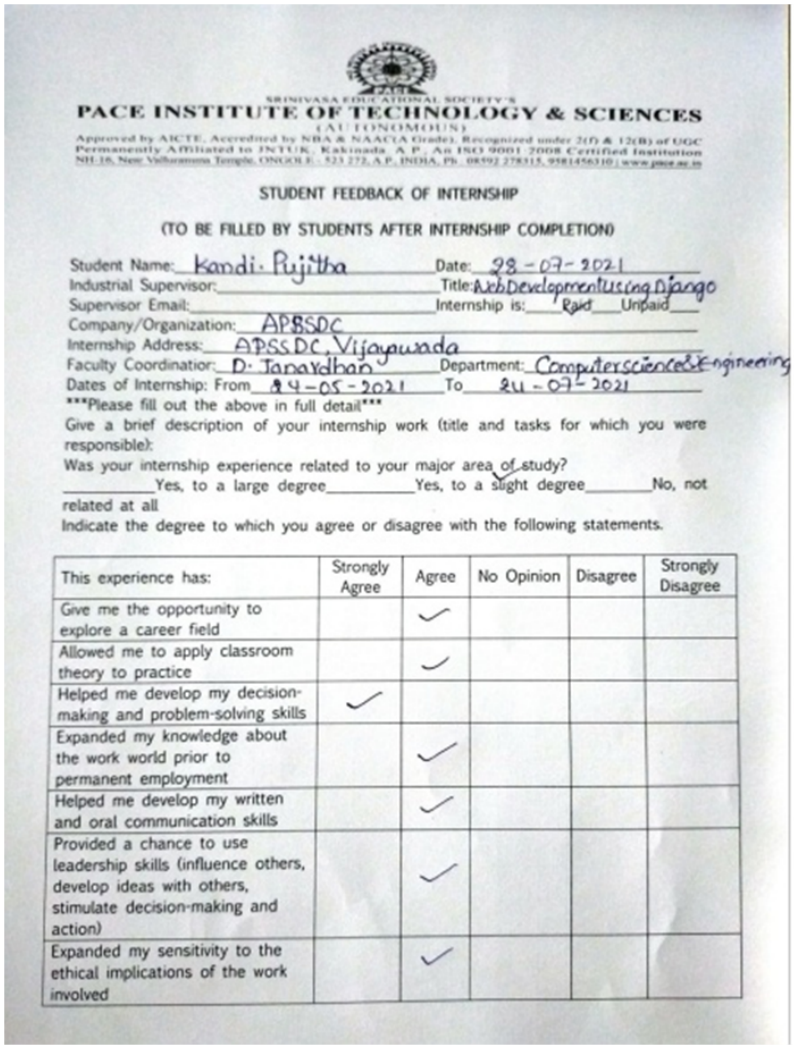


Figure 2.2.5.2 Placements of the students with Industry Training/ Internship

D. Student feedback on initiative

- Every student of the department submits a feedback on the industrial interactions during visits, training programs and internships, soon after the completion of the same.
- The feedbacks obtained from the students are used effectively in strengthening the industrial relations of the department and also to guide the successor batches. The following Figure 2.2.5.3 and 2.2.5.4 shows the student feed back during internship and industrial visit.
- The feedback also explores the content to be revised in curriculum to bridge the gap between academics and industry.



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STUDENT FEEDBACK OF INTERNSHIP

(TO BE FILLED BY STUDENTS AFTER INTERNSHIP COMPLETION)

Student Name: Kandi. Pujitha Date: 28-07-2021
Industrial Supervisor: Title: Web Development using Django
Supervisor Email: Internship is: Paid ✓ Unpaid
Company/Organization: APSSDC
Internship Address: APSSDC, Vijayawada
Faculty Coordinator: D. Janardhan Department: Computerscience&Engineering
Dates of Internship: From 24-05-2021 To 24-07-2021
Please fill out the above in full detail
Give a brief description of your internship work (title and tasks for which you were responsible):
Was your internship experience related to your major area of study?
_____Yes, to a large degree_____Yes, to a slight degree✓_____No, not related at all
Indicate the degree to which you agree or disagree with the following statements.

This experience has:	Strongly Agree	Agree	No Opinion	Disagree	Strongly Disagree
Give me the opportunity to explore a career field		✓			
Allowed me to apply classroom theory to practice		✓			
Helped me develop my decision-making and problem-solving skills	✓				
Expanded my knowledge about the work world prior to permanent employment		✓			
Helped me develop my written and oral communication skills		✓			
Provided a chance to use leadership skills (influence others, develop ideas with others, stimulate decision-making and action)		✓			
Expanded my sensitivity to the ethical implications of the work involved		✓			

This experience has:	Strongly Agree	Agree	No Opinion	Disagree	Strongly Disagree
Made it possible le for me to be more confident in new situations	✓				
Given me a chance to improve my interpersonal skills	✓				
Helped me learn to handle responsibility and use my time wisely	✓				
Helped me discover new aspects of myself that I didn't know existed before		✓			
Helped me develop mew interests and abilities		✓			
Helped be clarify my career goals		✓			
Provided me with contacts which my lead to future employment		✓			
Allowed me to acquire information and/or use equipment not available at my Institute		✓			

In the Institute internship program, faculty members are expected to be mentors for students. Do you feel that your faculty coordinator served such a function? Why or why not?

How well were you able to accomplish the initial goals, tasks and new skills that were set down in your learning contract? In what ways were you able to take a new direction or expand beyond your contract? Why were some goals not accomplished adequately?

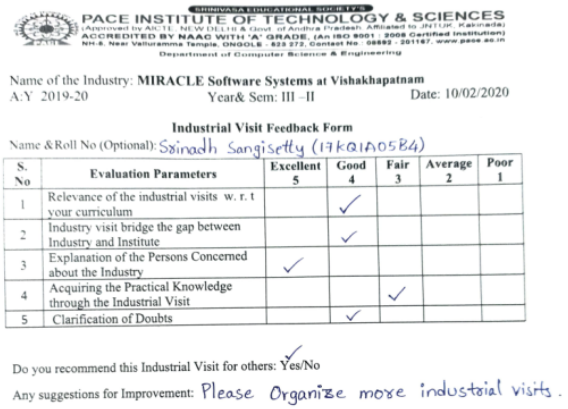
In what areas did you most develop and improve?
What has been the most significant accomplishment or satisfying moment of your internship?

What did you dislike about the internship?

Considering your overall experience, how would you rate this internship? (Circle one).

(Satisfactory/Good/Excellent)
Give suggestions as to how your internship experience could have been improved. (Could you have handled added responsibility? Would you have liked more discussions with your professor concerning your internship? Was closer supervision needed? Was more of an orientation required?)

Figure 2.2.5.3 Student Feedback on Internship



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NH-5, Near Valluramma Temple, ONGOLE - 523 272, Contact No : 08592 - 281167, www.pace.ac.in
Department of Computer Science & Engineering

Name of the Industry: **MIRACLE Software Systems at Vishakhapatnam**
A.Y 2019-20 Year& Sem: III –II Date: 10/02/2020

Industrial Visit Feedback Form

Name &Roll No (Optional): Srinadh Sangisetty (17K81A05B4)

S. No	Evaluation Parameters	Excellent 5	Good 4	Fair 3	Average 2	Poor 1
1	Relevance of the industrial visits w. r. t your curriculum		✓			
2	Industry visit bridge the gap between Industry and Institute		✓			
3	Explanation of the Persons Concerned about the Industry	✓				
4	Acquiring the Practical Knowledge through the Industrial Visit			✓		
5	Clarification of Doubts		✓			

Do you recommend this Industrial Visit for others: Yes/No ✓

Any suggestions for Improvement: Please Organize more industrial visits.

Figure 2.2.5.4 Student feedback on industrial visit.

3 COURSE OUTCOMES AND PROGRAM OUTCOMES (175) Total Marks 175.00

Define the Program specific outcomes

:

PSO1	Ability to adapt to a rapidly changing environment by learning and employing new programming skills and technologies.
PSO2	Ability to use diverse knowledge across the domains with interpersonnel skills to deliver the Industry need.

3.1 Establish the correlation between the courses and the Program Outcomes (POs) & Program Specific Outcomes (25) Total Marks 25.00

Institute Marks : 25.00

No. of Core Courses : 6	**C2 :** 2	**C3 :** 2	**C4 :** 2

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

Course Name :	C2 01	Course Year :	2019-2020

Course Name	Statements
C2 01.1	Implement OOPS concepts in Java programs
C2 01.2	Develop Java programs with the concepts of inheritance and interface
C2 01.3	Design a Java applications using exceptions and I/O streams
C2 01.4	Design interactive Java application using Applets
C2 01.5	Identify and Design Enterprise applications.

Course Name :	C2 14	Course Year :	2019-2020

Course Name	Statements
C2 14.1	Acquire knowledge in fundamentals of DBMS and identify the difference
C2 14.2	Understand various DBMS models and how queries are being processes
C2 14.3	Analyze DB design methodology and normalization process.
C2 14.4	Discuss the various transaction and concurrency management technique.
C2 14.5	Discuss various files indexing techniques.

Course Name :	C3 01	Course Year :	2020-2021

Course Name	Statements
C3 01.1	Students to visualize the different aspects of networks, protocols and n
C3 01.2	Students should be understand and explore the basics of Computer Ne
C3 01.3	Student will be in a position to apply the World Wide Web concepts.
C3 01.4	Students will be in a position to administrate a network and flow of inf
C3 01.5	Enables the students to compare and select appropriate routing algorithm.

Course Name :	C3 12	Course Year :	2020-2021

Course Name	Statements
C3 12.1	Identify time, space complexities for different problems.
C3 12.2	Implement Greedy Method to solve Problems.
C3 12.3	Implement Dynamic Programming technique to solve Problems.
C3 12.4	Able how to apply Backtracking and Branch & Bound Techniques in real
C3 12.5	Analyze the pattern-matching algorithms.

Course Name :	C4 01	Course Year :	2021-2022

Course Name	Statements
C4 01.1	Apply Angular8 to develop web applications.
C4 01.2	Make use of Forms and Services.
C4 01.3	Utilize Node.js to create Server Side Applications.
C4 01.4	Make use of Express to deploy web applications.
C4 01.5	Experiment with NoSQL using MongoDB.

Course Name :	C4 11	Course Year :	2021-2022

Course Name	Statements
C4 11.1	Identify the elements of good user interface design through effective G
C4 11.2	Identify the importance of human characteristics and understanding bu
C4 11.3	Analyze screen design principles for making good decisions based on t
C4 11.4	Select the window, device and screen based controls through navigatio
C4 11.5	Identify the basic components and interaction devices to interact with

Course Articulation Matrix :

1 . course name : C201

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C201.1	Implement	3	3	-	-	3	-	-	-	-	-	-	-
C201.2	Develop Ja	3	-	2	2	2	-	-	-	-	-	-	-
C201.3	Design a Ja	-	2	3	2	-	-	-	-	-	-	-	-
C201.4	Design inte	2	3	-	2	3	-	-	-	-	-	-	-
C201.5	Identify and	-	-	2	-	-	-	-	-	-	-	-	-
Average		**2.67**	**2.67**	**2.33**	**2.00**	**2.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2 . course name : C214

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	Acquire knc	-	3	-	2	-	-	-	-	-	-	-	-
C214.2	Understand	2	3	3	2	3	-	-	-	-	-	-	-
C214.3	Analyze DE	1	3	2	1	1	-	-	-	-	-	-	-
C214.4	Discuss the	3	-	3	3	3	-	-	-	-	-	-	-
C214.5	Discuss var	-	1	1	-	3	-	-	-	-	-	-	-
Average		**2.00**	**2.50**	**2.25**	**2.00**	**2.50**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3 . course name : C301

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C301.1	Students to	3	-	3	2	2	-	-	-	-	-	-	-
C301.2	Students sh	-	3	1	2	-	-	-	-	-	-	-	-
C301.3	Student will	3	3	2	2	3	-	-	-	-	-	-	-
C301.4	Students w	3	3	1	1	3	-	-	-	-	-	-	-
C301.5	Enables the	2	2	-	-	1	-	-	-	-	-	-	-
Average		**2.75**	**2.75**	**1.75**	**1.75**	**2.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4 . course name : C312

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	Identify time	3	-	2	2	3	-	-	-	-	-	-	-
C312.2	Implement	-	3	1	1	3	-	-	-	-	-	-	-
C312.3	Implement	3	3	-	-	-	-	-	-	-	-	-	-
C312.4	Able how to	2	-	3	1	2	-	-	-	-	-	-	-
C312.5	Analyze the	3	2	-	-	-	-	-	-	-	-	-	-
Average		**2.75**	**2.67**	**2.00**	**1.33**	**2.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

5 . course name : C401

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C401.1	Apply Angu	-	1	2	-	2	-	-	-	-	-	-	-
C401.2	Make use o	2	3	1	3	3	-	-	-	-	-	-	-
C401.3	Utilize Node	1	1	2	2	1	-	-	-	-	-	-	-
C401.4	Make use o	3	3	3	1	3	-	-	-	-	-	-	-
C401.5	Experiment	-	2	-	2	2	-	-	-	-	-	-	-
Average		**2.00**	**2.00**	**2.00**	**2.00**	**2.20**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

6 . course name : C411

Course	Statements	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	Identify the	2	-	3	-	3	-	-	-	-	-	-	-
C411.2	Identify the	2	3	-	3	2	-	-	-	-	-	-	-
C411.3	Analyze scr	-	2	2	1	1	-	-	-	-	-	-	-
C411.4	Select the v	3	-	2	2	3	-	-	-	-	-	-	-
C411.5	Identify the	3	3	1	1	3	-	-	-	-	-	-	-
Average		**2.50**	**2.67**	**2.00**	**1.75**	**2.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

1 . Course Name : C201

Course	PSO1	PSO2
C201.1	3	3
C201.2	-	-
C201.3	3	3
C201.4	-	-
C201.5	2	2
Average	**2.67**	**2.67**

2 . Course Name : C214

Course	PSO1	PSO2
C214.1	-	3
C214.2	3	2
C214.3	2	2
C214.4	3	2
C214.5	2	-
Average	**2.50**	**2.25**

3 . Course Name : C301

Course	PSO1	PSO2
C301.1	3	3
C301.2	3	-
C301.3	-	2
C301.4	3	3
C301.5	2	2
Average	**2.75**	**2.50**

4 . Course Name : C312

Course	PSO1	PSO2
C312.1	2	3
C312.2	-	-
C312.3	3	-
C312.4	-	3
C312.5	3	2
Average	**2.67**	**2.67**

5 . Course Name : C401

Course	PSO1	PSO2
C401.1	2	-
C401.2	2	2
C401.3	3	3
C401.4	1	2
C401.5	-	1
Average	**2.00**	**2.00**

6 . Course Name : C411

Course	PSO1	PSO2
C411.1	2	-
C411.2	-	2
C411.3	3	3
C411.4	3	3
C411.5	-	2
Average	**2.67**	**2.50**

Program Articulation Matrix :

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	2	2.33	PO11	2
C102	2.6	2.8	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103	3	2.8	2.4	1.33	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.8
C104	3	2.8	2.6	2.6	2.6	PO6	PO7	PO8	PO9	2	1.5	1
C105	3	3	2	PO4	3	2	3	2	2	2	3	3
C106	1	PO2	2	PO4	PO5	PO6	2	PO8	2	1	1	3
C107	3	2	2	2	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.5
C108	3	3	PO3	3	2	2	2	PO8	PO9	PO10	PO11	2
C109	1.8	2.2	1	1	PO5	1.4	1	2	3	3	1.4	2.2
C110	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	2	2.33	PO11	2
C111	2.6	2.8	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C112	1.4	1.6	2.2	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.8
C113	1.8	2.4	1.8	PO4	PO5	PO6	1	PO8	PO9	PO10	PO11	PO12
C114	2.8	2.8	2.8	2	2.4	1.75	PO7	PO8	PO9	PO10	PO11	1.6
C115	3	PO2	PO3	3	2	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C116	1.8	1	1	PO4	PO5	1.5	1	1	1	PO10	PO11	PO12
C117	3	2.8	2.8	1.33	1.5	1.5	PO7	PO8	PO9	PO10	PO11	1.4
C201	2.66	2.66	2.33	2	2.66	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202	2.66	2.66	2.66	2	2.66	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203	1.75	1.75	1.75	1.6	1.66	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204	1.66	1.66	1.66	1.5	1.4	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205	2.33	2.5	2.5	2	2.5	2	PO7	PO8	1.5	1	1	1
C206	2.33	2	1.33	2.33	2.33	2	PO7	PO8	PO9	2.33	2.33	1
C207	2.33	2.33	2.33	2.33	2.66	PO6	PO7	PO8	2	2.33	1.66	PO12
C208	2	2	2	2.33	2.25	PO6	PO7	PO8	2	2.33	1.75	PO12
C209	1.66	1.66	1.66	1.66	2	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C210	2.5	2.66	2	2.66	2.66	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211	2.25	2.66	2	2.33	2.5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212	2	2.5	2.25	2	2.5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213	2.25	2.75	1.66	1.75	2.5	PO6	PO7	PO8	PO9	PO10	PO11	2
C214	2.25	3	2.33	2	2.75	PO6	PO7	PO8	PO9	2	PO11	1.66
C215	2	2.75	2	2	2.75	2	PO7	PO8	2	1.5	2	1.5
C216	2.2	3	2	2	3	1.33	PO7	PO8	PO9	1.66	1.66	2
C217	2	1.66	2	2	2	2	1.5	1.5	1.5	2	2	2
C301	2.75	2.75	1.75	1.75	2.66	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302	1.75	1.66	2	2	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303	2.75	2.6	2	2	2.75	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304	2.75	2.66	1.75	1.5	3	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305	1.5	1.5	1.5	1.5	1.75	2	PO7	PO8	PO9	2	PO11	1.66
C306	2.4	2.4	2	2.5	2.5	2.5	2	2.33	2	2.33	2.33	2.33
C307	2.5	2.66	1.66	1.66	2.66	1.5	2	PO8	PO9	1.66	1.66	1.33
C308	1.66	1.66	2.33	2.33	2	2	1.5	PO8	PO9	1.5	1.5	1.5
C309	2.66	2.5	2.33	2	2.6	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C310	2.75	2.66	2.5	2	2.75	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311	2.75	2.66	2	1.33	2.66	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312	2.66	2.33	2.33	1.75	2.66	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313	2.5	2.66	1.66	2.25	3	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314	2	1.75	1.6	1.6	1.75	PO6	2	PO8	PO9	1.66	PO11	PO12
C315	2.6	2.6	2.2	2.33	2.5	1.33	PO7	1.5	1.25	2.33	1.5	1.66
C316	2.6	2.6	2	1.75	2.5	1.5	PO7	PO8	1.66	1.66	1.5	1.5
C317	2.75	2.25	2.75	2.5	2.75	2.5	2	PO8	2.5	2.25	2.25	2.75
C401	2	2	2	2	2.2	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402	2.2	2	2.25	2	2.25	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C403	2.5	2.25	2.25	2.33	2	PO6	PO7	PO8	PO9	PO10	PO11	PO12

C404	2.66	2	2.5	2.25	2	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405	2	2.25	2.5	1.66	2.25	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C406	2.66	3	2.33	2.33	2.5	1.33	PO7	PO8	1.33	2	2.5	2
C407	2.4	2.8	2.4	2.5	2.66	1.66	2	PO8	PO9	1.75	2	1.66
C408	2	2.5	1.75	1.66	2	1.75	PO7	PO8	1.33	1.66	1.66	1.33
C409	2.33	2.25	2	1.66	2.33	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C410	2.5	2.66	2	1.75	2.4	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411	2.5	2.66	2.33	1.75	2.5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412	2.75	2	2.75	2.5	2.5	2.5	2.25	PO8	2.75	2.5	2.5	2.5

Course	PSO1	PSO2
C101	PSO1	PSO2
C102	PSO1	PSO2
C103	2	1
C104	2.4	2.4
C105	1	1.6
C106	2	2
C107	2	1
C108	2.5	2.83
C109	1.8	1
C110	1.5	2
C111	1	PSO2
C112	PSO1	PSO2
C113	2	1
C114	1.75	1.6
C115	PSO1	1
C116	3	1
C117	2	1.5
C201	2.66	2.66
C202	2.66	2.66
C203	1.75	1.75
C204	1.6	1.75
C205	2.33	2.33
C206	2.33	2.33
C207	2.66	2.33
C208	2.2	2.2
C209	2	2
C210	3	2.3
C211	2.5	2.25
C212	2.5	2.25
C213	2.75	2.25
C214	2.75	2.5
C215	2.75	2
C216	2.66	2.25
C217	2	2
C301	2.75	2.5
C302	1.8	2
C303	2.5	2.2
C304	3	2.33
C305	2	1.75
C306	2.2	2
C307	2.75	1.75
C308	2.66	2
C309	2.66	2.5
C310	2.66	2.66
C311	2.66	2.66

C312	2.66	2.66
C313	3	2.66
C314	1.6	1.8
C315	2.6	2.6
C316	2.6	2.2
C317	2.75	2.25
C401	2	2
C402	2.25	2
C403	2.2	2.2
C404	2	2.3
C405	2.66	2
C406	2.66	2.33
C407	2.6	2.4
C408	2	1.75
C409	2.25	2.25
C410	2.66	2.5
C411	2.5	2
C412	2.75	2.5

3.2 Attainment of Course Outcomes (75) Total Marks 75.00

Institute Marks : 10.00

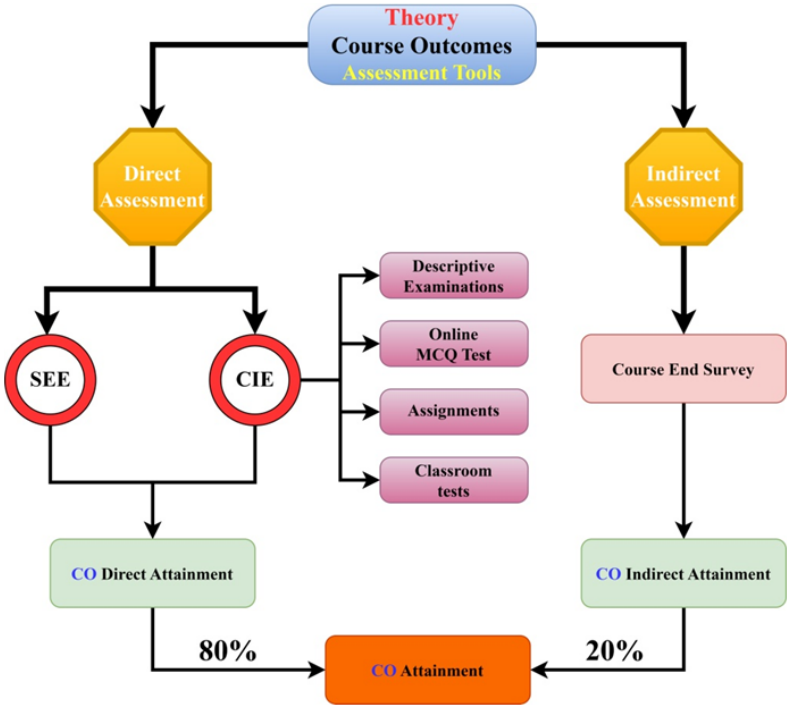
For the Evaluation of attainments CO's both direct and indirect assessment methods are used. The 80% weightage is considered for direct assessment which includes internal assessments (like Mid-examinations, Assignments, Classroom tests, Day to Day Evaluations, etc) and Semester end examinations. The remaining 20% weightage is based on course-end survey.

Internally developed excel spreadsheets are used for direct assessment. Feedback forms based on CO's were framed for each class and the feedback was taken from students for indirect assessment.

CO attainment process

The curriculum comprises of various types of courses like Theory Courses, Laboratory Courses, Mini-Project, Internship and Mandatory courses.

Theory Attainment Process



Theory:

Mid-Examinations: Two mid-examinations are conducted for each semester. Mid-examinations serve to encourage students to keep up with course content covered. The Mid examination is of 120 minutes for 20 marks. The questions are framed in such a way that they should map Bloom's taxonomy, whereas each question is mapped to the respective course outcomes, which was evaluated based on the set attainment levels. The Multiple choice questions of 10 marks is also evaluated in both mid's of each course.

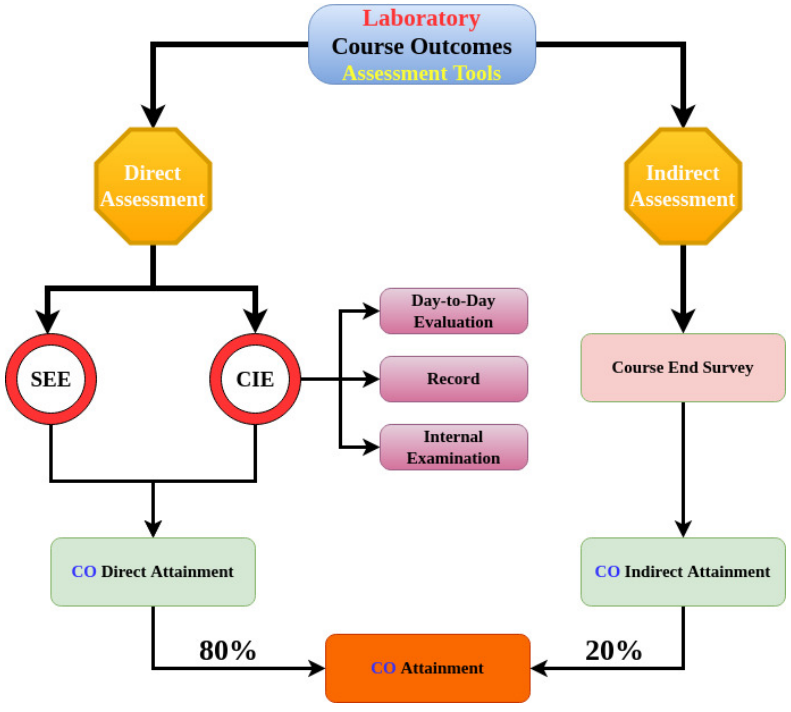
Assignments: Students are assigned course-related work and their submissions are evaluated on the basis of work quality. A total of 5 assignments are given per course where each assignment carries 5 Marks.

Classroom Test: Students are assigned course-related work and their class room performance is evaluated. A total of 5 classroom tests are given per course where each test carries 5 Marks.

Semester-End Examination: The semester-end examination is 180 minutes duration of 60 marks and covers the entire syllabus of the course. The questions are framed in such a way that they should satisfy Bloom's taxonomy, where as each question is mapped to the concurred course outcomes of the course. The CO's are evaluated based on the set attainment levels.

All direct assessment such as Mid-examinations, Assignments, Classroom test & Semester end examinations covers 80% of weightage and Indirect assessment consists of a course-end survey which comprises 20% of weightage.

Laboratory Attainment Process:

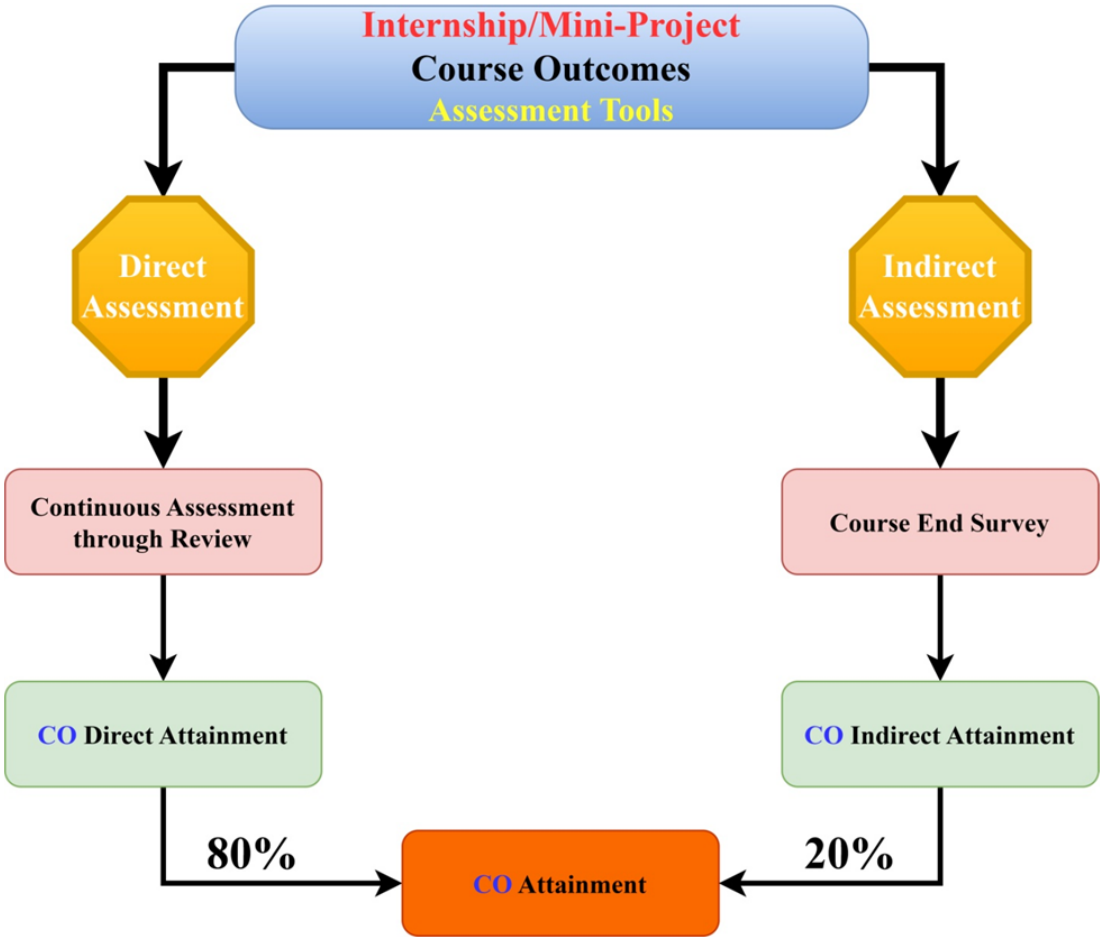


Laboratory Courses:

For a total of 100 marks, continuous internal evaluation is 40 marks which comprises mainly day-to-day evaluation (20marks), Record (5marks), Internal Examinations (15marks) and Semester end examinations of 60 marks which cover 80% weightage of laboratory assessment and remaining 20% weightage

for course end survey.

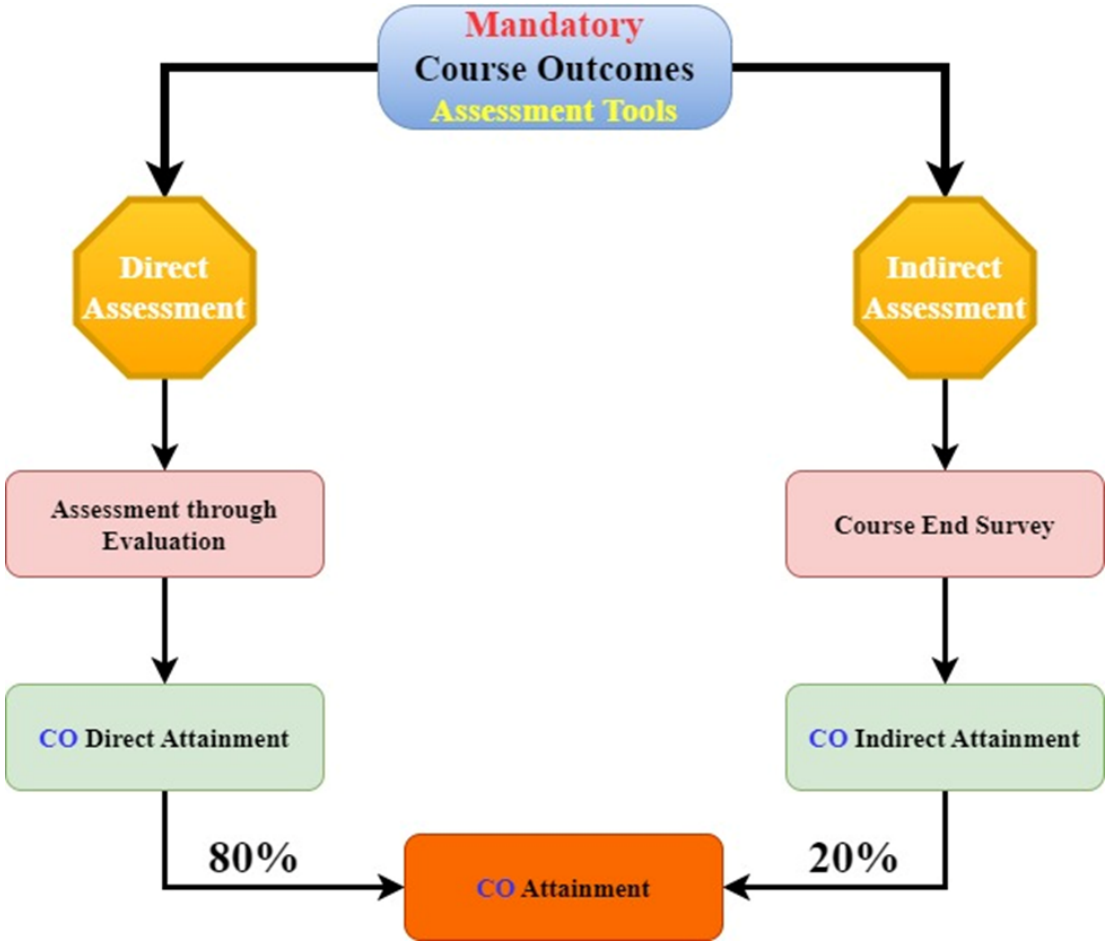
Internship/Mini-Project Attainment Process:



Internship/Mini-Project Courses:

As per curriculum internship/mini project/seminar course rubrics are assessed on internal examination procedures for 100 marks which carries 80% weightage and course end survey carries 20% weightage.

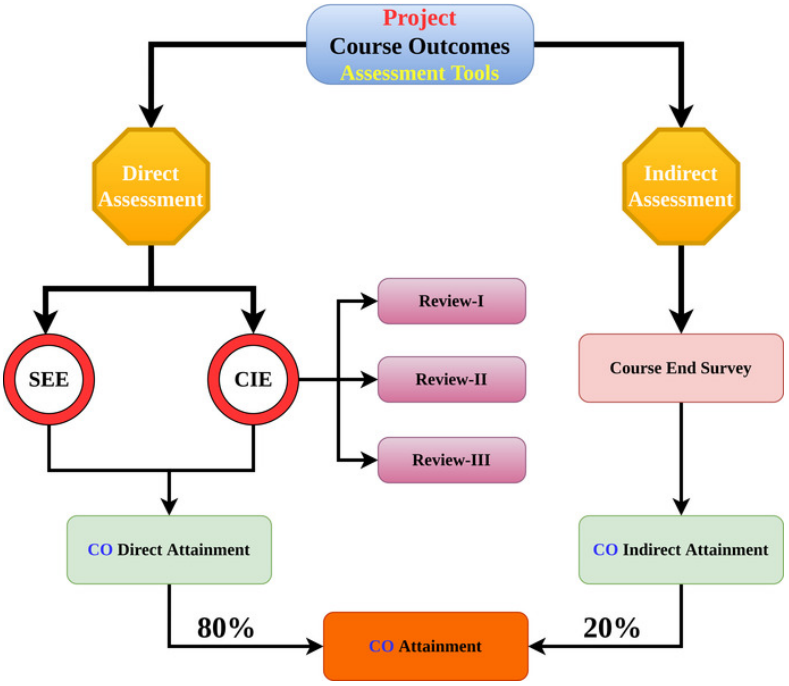
Mandatory Course Attainment Process:



Mandatory Courses:

As per curriculum Mandatory course rubrics are assessed on internal examination procedures for 100 marks which carries 80% weightage and course end survey carries 20% weightage.

Project Attainment Process:



Project Work:

Project work is carried out by students of IV - B. Tech, II – Semester. According to the curriculum, the internal marks allocated for project work is 80 marks, external evaluation marks are 120 which carries 80% weightage and course end survey carries 20% weightage.

Course End Survey is collected at the end of course from the students about their attainment level of COs. Feedback is collected with closed ended questions with options as

4- Excellent

3- Very Good

2- Good

1-Average

0-Poor

There response will be converted into percentage

$$\% \text{ of attainment} = \frac{\sum \text{Grade} \times \text{Number of responses to that grade}}{\text{Total respnses}} \times 100$$

Depending on the level of attainment grade was decided as mentioned below.

% of attainment	Grade
More than or equal to 80%	3
More than or equal to 70% and less than 80%	2
More than or equal to 60% and less than 70%	1
Less than 60%	0

3.2.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (65) Institute Marks : 65.00

As the 2018 admitted batch was the first autonomous batch, the threshold for internal and external exams was calculated based on the previous two batches (2016 & 2017) pass percentages in the course having the same/similar syllabus.

For 2018 admitted batch

2016 admitted & 2017 admitted batch average pass percentage	Internal Threshold	External Threshold
Less than 50%	55	40
More than or equal to 50% and less than 60%	57.5	42.5
More than or equal to 60% and less than 70%	60	45
More than or equal to 70% and less than 80%	62.5	47.5
More than or equal to 80%	65	50
If the course does not exist in R16	60	45

The percentage of students who secured more than the threshold was calculated. Grades were given on the % of students who secured more than the threshold value

Percentage of students secured more than the threshold	**Grade**
More than or equal to 80%	3
Less than 80% and more than or equal to 70%	2
Less than 70% and more than or equal to 60%	1
Less than 60%	0

Depending upon the percentage of students secured more than the threshold, the next batch threshold was decided by the same course as follows.

Next batch threshold for internal courses:

% of students secured more than the threshold value	**Action**
More than or equal to 95% and less than 100%	Change Threshold to Min (Present batch Thresold+10%, 70)
More than or equal to 90% and less than 95%	Change Threshold to Min (Present batch Thresold+7.5%,70)
More than or equal to 85% and less than 90%	Change Threshold to Min (Present batch Thresold+5%,70)
More than or equal to 80% and less than 85%	Change Threshold to Min (Present batch Thresold+2.5%,70)
Less than 80%	No Change in the threshold is required.

Theory attainment sample

Continuous Internal Evaluation:

PACE Institute of Technology and Sciences, Ongole

Course Outcome Attainment Sheet Internal (B.Tech-R18)

Programme Specilization:	CSE
Year :	III
Sem	II
Course Name:	HBD
Course Code:	P18CST11
A.Y:	2021-2022
Batch:	2018-2022
Course Type:	Non-Elective

Roll No	MID-1				MID-2				Assignment					Class Room Test					Online Test		Course Outcomes Attainment (CIE)				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	A1	A2	A3	A4	A5	C1	C2	C3	C4	C5	MCQ-1	MCQ-2					
Max Marks	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	10	10	CO1	CO2	CO3	CO4	CO5
CO	1	2	2	3	3	4	4	5	1	2	3	4	5	1	2	3	4	5	1,2,3	3,4,5					
19KQ5A0514	5	4	0	1	4	4	3	3	5	5	5	5	5	5	5	5	5	5	10	9	100.00	75.00	78.33	85.83	87.37
19KQ5A0515	5	1	0	0	4	4	4	3	5	5	5	5	5	5	5	5	5	5	10	9.5	100.00	62.50	74.58	90.83	88.42
19KQ5A0516	5	1	0	0	4	5	2	2	5	5	5	5	5	5	5	5	5	5	10	10	100.00	62.50	75.00	87.50	84.21
19KQ5A0518	4	0	0	0	4	5	3	0	5	5	5	5	5	5	5	5	5	5	10	10	94.74	58.33	75.00	91.67	73.68

INTERNAL						
	Threshold	65	65	65	65	65
	%students secured more than Threshold	99.47	89.47	91.05	96.32	96.32
	Internal Grade	3	3	3	3	3
	Next A.Y Threshold	70	70	70	70	70

Semester-End Examination:

PACE Institute of Technology and Sciences, Ongole

Course Outcome Attainment Sheet External (B.Tech-R18)

Programme	CSE
Year :	III
Sem:	II
Course Name:	HBD
Course Code:	P18CST11
A.Y:	2021-2022
Batch:	2018-2022
Course Type:	Non-Elective

ROLL NO	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
19KQ5A0515	8	7	3	1	6	66.67	58.33	25.00	8.33	50.00
19KQ5A0516	7	6	2	6	6	58.33	50.00	16.67	50.00	50.00
19KQ5A0518	6	6	1	6	6	50.00	50.00	8.33	50.00	50.00

EXTERNAL	Threshold	50	50	50	50	50
	%students secured more than Threshold	83.6	61.9	39.68	43.39	50.26
	External Grade	3	1	0	0	0
	Next A.Y Target Threshold	52.5	50	50	50	50

CO Overall Attainment:

CO WISE ATTAINMENT						
Particulars		P18CST1 1.1	P18CST1 1.2	P18CST1 1.3	P18CST1 1.4	P18CST1 1.5
INTERNAL	Threshold Internal	65	65	65	65	65
	%students secured more than Threshold	98.97	89.18	90.72	95.88	95.88
	Internal Grade	3	3	3	3	3
	Next A.Y. Threshold	70	70	70	70	70
EXTERNAL	Threshold External	50	50	50	50	50
	%students secured more than Threshold	83.6	61.9	39.68	43.39	50.26
	External Grade	3	1	0	0	0
	Next A.Y. Target Threshold	52.5	50	50	50	50
Indirect Attainment		96.25	90.54	96.47	90.25	89.63
Indirect Grade		3	3	3	3	3
Overall Attainment		3.00	2.04	1.56	1.56	1.56

Lab attainment sample:

Year :	II
Sem	II
Course Name:	Linux Programming
Course Code:	P18CSL04
A.Y:	2019-20
Batch:	2018-22
Course Type:	LAB

Roll No	Day to Day Evolution																								Record																								Internal		External		Course Outcomes Attainment (C			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	CO	Marks	CO	Marks	CO1	CO2	CO3	CO4
Max Marks	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		15		60				
CO	1	1	1	1	2	3	4	4	3	2	2	2	2	3	4	3	4	4	3	2	2	3	2	4	1	1	1	1	2	3	4	4	3	2	2	2	2	3	4	3	4	4	3	2	3	2	2	4		Mixed		Mixed	1	2	3	4
19KQ1A05H5	20	20	19	20	20	19	20	20	19	20	20	20	20	20	19	20	20	19	20	20	19	20	20	20	5	5	5	5	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	1	13	2	56	97.39	100.00	97.04	98.52
19KQ1A0590	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	13	1	56	100.00	100.00	98.67	100.00
19KQ5A0511	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	15	0	AB	100.00	100.00	100.00	100.00
19KQ5A0512	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	12	1	54	100.00	100.00	100.00	98.00
19KQ5A0513	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	2	12	4	AB	100.00	98.50	100.00	100.00
19KQ5A0514	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	1	13	4	58	98.26	100.00	100.00	100.00
19KQ5A0515	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	3	15	2	54	100.00	100.00	100.00	100.00
19KQ5A0516	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	14	2	56	100.00	100.00	100.00	99.33
19KQ5A0517	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	2	12	3	55	100.00	98.50	100.00	100.00
19KQ5A0518	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	1	15	3	54	100.00	100.00	100.00	100.00

	Particulars	P18CSL	P18C	P18C	P18CS
INTERN	Threshold Internal	65	65	65	65
	%students secured more than Threshold	91.58	92.57	95.54	99.48
	Internal Grade	3	3	3	3
	Next A.Y Threshold	70	70	70	70
EXTERN	Threshold External	50	50	50	50
	%students secured more than Threshold	100	100	100	95.12
	External Grade	3	3	3	3
	Next A.Y Target Threshold	60	60	60	60

Lab CO Overall Attainment:

PACE Institute of Technology and Sciences, Ongole
Coursewise PO, PSO Attainment Sheet (B.Tech-R18)

Programme Specilization:	CSE
Year :	II
Sem	II
Course Name:	LINUX PROGRAMMING LAB
Course Code:	P18CSL04
A.Y:	2019-20
Batch:	2018-22
Course Type:	LAB

CO WISE ATTAINMENT							
Particulars		P18CSL04	P18CSL04	P18CSL04	P18CSL04	P18CSL04	P18CSL04.
INTERNAL	Threshold Internal	65	65	65	65	0	0
	%students secured more than Threshold	91.58	92.57	95.54	99.48	0	0
	Internal Grade	3	3	3	3	0	0
	Next A.Y Threshold	70	70	70	70	0	0
EXTERNAL	Threshold External	50	50	50	50	0	0
	%students secured more than Threshold	100	100	100	95.12	-	-
	External Grade	3	3	3	3	0	0
	Next A.Y Target Threshold	60	60	60	60	0	0
Indirect Attainment		88.52	87.45	92.45	94.13	0	0
Indirect Grade		3	3	3	3	0	0
Overall Attainment		3.00	3.00	3.00	3.00	0.00	0.00

3.3 Attainment of Program Outcomes and Program Specific Outcomes (75) Total Marks 75.00

3.3.1 Describe assessment tools and processes used for measuring the attainment of each Program Outcome and Program Specific Outcomes (10) Institute Marks : 10.00

Course Outcomes (CO) are the statements that declare what students should be able to do at the end of a course. At the end of each course, the Program Outcomes (CO)/Program Specific Outcomes (PSO) assessment is done from the CO attainment. Each course has defined with set of Course Outcomes and corresponding evaluation criteria. The COs are mapped to the POs and PSOs under scale of 3, 2, 1 and '-', which are used to provide the quantitative measurement of how well the Pos and PSOs are mapped.

Level	Correlation level
3	Substantial (High) Correlation
2	Moderate (Medium) Correlation
1	Slight (Low) Correlation
-	Indicates there is no correlation.

The performance of the students in the all assessment methods during the semester in each course is used to compute the level of attainment of the COs. The CO attainment and CO-PO/PSO mappings are used to measure the attainment of POs and PSOs.

PO/PSO assessment is done by giving 80% weightage to direct assessment and 20% weightage to indirect assessment. Direct assessment is based on CO attainment from the process described in 3.2.1. Direct methods display the students' knowledge and skills from their performance in the various academic activities like Continuous Internal Evaluation (CIE), Semester End Examinations (SEE), Laboratory's, Internships, Mini-Project, seminar, and project. These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning. Average of CO-PO/PSO attainment of all the courses is considered as direct assessment tool for PO/PSO attainment.

Surveys like Student Exit Survey, Employer Survey and Faculty Survey are considered as indirect attainment tools for PO/PSO attainment. Student Exit Survey is collected at the end of program from students about their attainment level of POs and PSOs. Employer survey is collected from the employer about students PO/PSOs level of attainment. Staff Survey is collected from the staff regarding students PO/PSOs level of attainment.

Feedback is collected with closed ended questions with options as

4- Excellent

3- Very Good

2- Good

1-Average

0-Poor

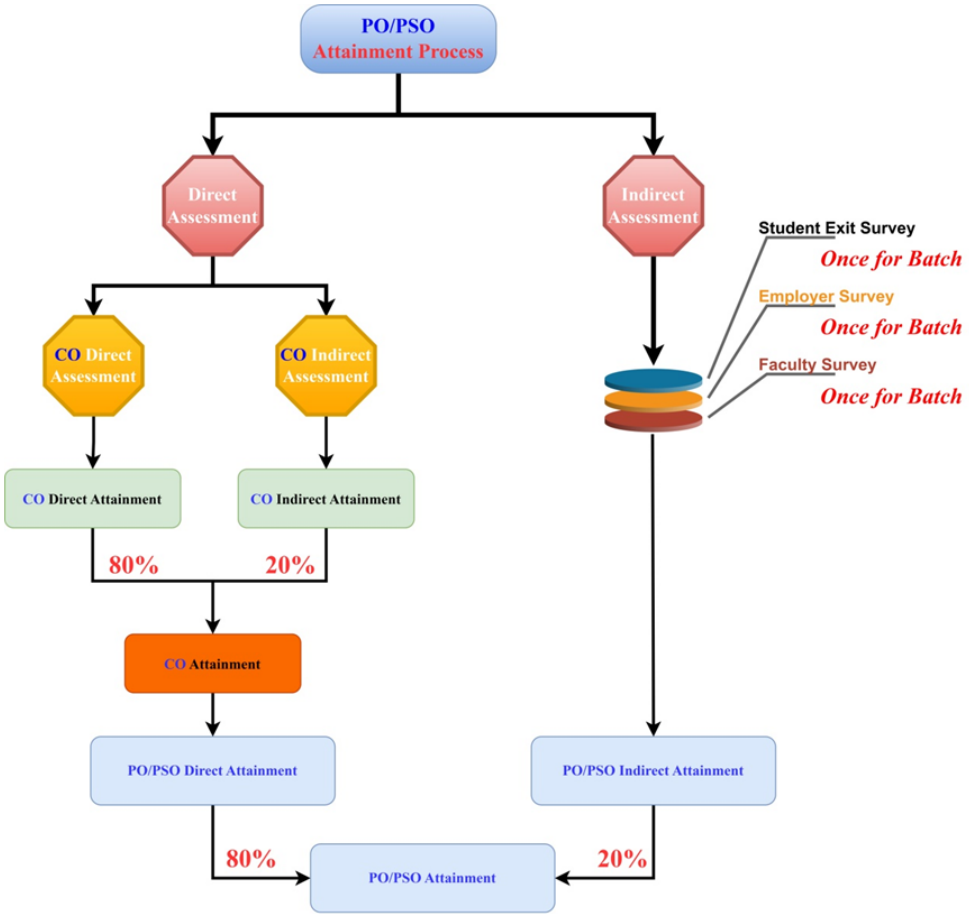
There response will be converted into percentage

$$\%\ \text{of attainment} = \frac{\sum \text{Grade} \times \text{Number of responses to that grade}}{\text{Total respnses}} \times 100$$

Depending on the level of attainment grade was decided as mentioned below.

% of attainment	Grade
More than or equal to 80%	3
More than or equal to 70% and less than 80%	2
More than or equal to 60% and less than 70%	1
Less than 60%	0

PO/PSO attainment Process:



PACE Institute of Technology and Sciences, Ongole

Coursewise PO, PSO Attainment Sheet (B.Tech-R18)

Programme Specilization:	CSE
Year :	III
Sem:	I
Course Name:	CN
Course Code:	C301
A.Y:	2020-2021
Batch:	2018-2022
Course Type:	NON ELECTIVE

CO-PO, PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO-Avg
C301.1	2	-	3	2	2	-	-	-	-	-	-	-	3	3	2.50
C301.2	3	3	1	2	1	-	-	-	-	-	-	-	2	1	1.86
C301.3	2	2	2	2	2	-	-	-	-	-	-	-	2	2	2.00
C301.4	2	2	1	1	3	-	-	-	-	-	-	-	1	1	1.57
C301.5	1	1	-	-	1	-	-	-	-	-	-	-	1	2	1.20
Avg	2.00	2.00	1.75	1.75	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.80	1.80	1.83

CO WISE ATTAINMENT

Particulars		C301.1	C301.2	C301.3	C301.4	C301.5
INTERNAL	Threshold Internal	65	65	65	65	65
	%students secured more than Threshold	89.23	70.77	89.23	85.64	83.59
	Internal Grade	3	2	3	3	3
	Next A.Y. Threshold	70	65	70	70	67.5
EXTERNAL	Threshold External	50	50	50	50	50
	%students secured more than Threshold	90.81	52.97	65.41	51.35	55.68
	External Grade	3	0	1	0	0
	Next A.Y. Target Threshold	57.5	50	50	50	50
Indirect Attainment		89.23	89.65	95.63	95.45	89.45
Indirect Grade		3	3	3	3	3
Overall Attainment		3.00	1.24	2.04	1.56	1.56

PO, PSO ATTAINMENT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	CO-Avg
C301.1	2.00	-	3.00	2.00	2.00	-	-	-	-	-	-	-	3.00	3.00	2.50
C301.2	1.24	1.24	0.41	0.83	0.41	-	-	-	-	-	-	-	0.83	0.41	0.77
C301.3	1.36	1.36	1.36	1.36	1.36	-	-	-	-	-	-	-	1.36	1.36	1.36
C301.4	1.04	1.04	0.52	0.52	1.56	-	-	-	-	-	-	-	0.52	0.52	0.82
C301.5	0.52	0.52	-	-	0.52	-	-	-	-	-	-	-	0.52	1.04	0.62
Avg	1.23	1.04	1.32	1.18	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.27	1.21

3.3.2 Provide results of evaluation of each PO & PSO (65)

Institute Marks : 65.00

PO Attainment

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	2	2.33	PO11	2
C102	1.67	1.80	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103	2.23	2.03	1.79	0.96	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.32
C104	2.07	1.90	1.82	1.80	1.8	PO6	PO7	PO8	PO9	0.83	0.96	0.69
C105	1.81	1.81	1.25	PO4	1.88	1.25	1.56	1.21	1.25	1.21	1.88	1.81
C106	0.5	PO2	1	PO4	PO5	PO6	1	PO8	1	0.66	0.5	1.5
C107	3	2	2	2	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.50
C108	3	3	PO3	1	2	0.33	2	PO8	PO9	PO10	PO11	1.67
C109	1.8	2.2	1	1	PO5	1.4	1	2	3	3	1.4	2.2
C110	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	2	2.17	PO11	2
C111	1.61	1.81	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C112	1.21	1.31	1.88	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.54
C113	1.28	1.76	1.28	PO4	PO5	PO6	0.74	PO8	PO9	PO10	PO11	PO12
C114	1.65	1.65	1.65	1.24	1.44	1.03	PO7	PO8	PO9	PO10	PO11	0.96
C115	3	PO2	PO3	3	2	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C116	1.8	1	1	PO4	PO5	1.5	1	1	1	PO10	PO11	PO12
C117	3	2.80	2.80	1.33	1.50	1.50	PO7	PO8	PO9	PO10	PO11	1.40
C201	2.45	2.13	1.62	1.57	2.35	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C202	2.45	2.24	2.03	1.50	1.87	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C203	1.35	1.55	1.39	1.34	1.35	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204	0.80	0.89	0.74	0.66	0.67	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C205	2.33	2.33	1.33	2	2.67	1.67	PO7	PO8	1.67	1.50	1	1.33
C206	2.33	2	1.33	2.33	2.33	2	PO7	PO8	PO9	2.33	2.33	1
C207	2.08	2.08	2.08	2.08	2.34	PO6	PO7	PO8	1.75	2.08	1.48	PO12
C208	1.70	1.86	1.70	2.19	1.95	PO6	PO7	PO8	1.68	2.26	1.61	PO12
C209	1.66	1.66	1.66	1.66	2	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C210	1.62	1.49	1.32	1.49	1.81	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211	2	2.08	1.66	1.94	2.10	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212	1.57	2.34	1.85	1.68	2.02	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213	1.61	2.15	1.29	1.43	1.98	PO6	PO7	PO8	PO9	PO10	PO11	1.68
C214	2.13	2.84	2.22	1.85	2.57	PO6	PO7	PO8	PO9	2	PO11	1.66
C215	2	2.75	2	2	2.75	2	PO7	PO8	2	1.5	2	1.5
C216	2.2	3	2	2	3	1.33	PO7	PO8	PO9	1.66	1.66	2
C217	1.73	1.49	1.82	1.73	2	2	1.23	1.23	1.5	1.73	2	1.73
C301	1.91	1.47	1.32	1.17	1.86	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C302	2.29	1.64	2.12	2.12	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C303	2.06	2.11	1.66	1.70	2.06	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C304	1.79	2.12	1.36	0.82	1.88	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C305	1.18	1.14	1.18	1.26	1.39	1.52	PO7	PO8	PO9	1.52	PO11	1.51
C306	0.58	0.58	0.57	0.7	0.5	0.50	0.58	0.73	0.40	0.47	0.47	0.47
C307	2.5	2.59	1.66	1.59	2.56	1.50	1.90	PO8	PO9	1.67	1.60	1.26
C308	2.5	1.67	2.33	2.33	2	2	1.50	PO8	PO9	1.50	1.50	1.50
C309	2.02	1.74	1.53	1.52	1.64	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C310	1.91	1.49	1.66	1.09	1.87	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311	1.38	1.26	0.93	0.66	1.26	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312	2.22	1.84	2	1.39	1.90	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313	1.86	1.96	0.86	1.31	1.77	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314	1.75	1.52	1.37	1.40	1.52	PO6	1.63	PO8	PO9	1.38	PO11	PO12
C315	2.28	2.23	1.9	2.19	2.31	1.19	PO7	1.31	1.09	1.94	1.34	1.49
C316	2.40	2.40	1.89	1.56	2.34	1.36	PO7	PO8	1.59	1.52	1.39	1.34
C317	2.75	2.25	2.75	2.50	2.75	2.50	2	0.00	2.50	2.25	2.25	2.75
C401	1.04	1.07	1.12	1.04	1.20	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C402	1.14	1.04	1.17	1.04	1.17	PO6	PO7	PO8	PO9	PO10	PO11	PO12

C403	1.94	1.57	1.77	1.80	1.44	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C404	1.87	1.25	1.86	1.53	1.47	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C405	1.89	1.93	2.10	1.49	2.04	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C406	2.66	3	2.33	2.33	2.5	1.33	PO7	PO8	1.33	2	2.50	2
C407	2.4	2.8	2.4	2.5	2.66	1.67	2	PO8	PO9	1.75	2	1.67
C408	1.73	2.18	1.48	1.34	1.82	1.51	PO7	PO8	1.08	1.48	1.34	1.15
C409	1.64	1.57	1.25	1.15	1.78	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C410	1.59	1.69	1.26	1.12	1.53	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411	2.16	1.95	2.15	1.41	2.03	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412	2.75	2	2.75	2.5	2.5	2.5	2.25	PO8	2.75	2.5	2.5	2.5

PO Attainment Indirect

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Student Exi	3	3	3	3	3	3	3	3	3	3	3	3
Employer S	3	3	3	3	3	3	3	3	3	3	3	3
Faculty Sur	3	3	3	3	3	3	3	3	3	3	3	3

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
InDirect Attainment	3	3	3	3	3	3	3	3	3	3	3	3
Direct Attainment	1.93	1.90	1.65	1.60	1.92	1.53	1.46	1.07	1.64	1.74	1.61	1.57

PSO Attainment

Course	PSO1	PSO2
C101	PSO1	PSO2
C102	PSO1	PSO2
C103	1.48	0.74
C104	1.71	1.56
C105	0.60	0.93
C106	1	1
C107	2	1
C108	2.50	2.83
C109	1.8	1
C110	1.42	1.68
C111	0.65	PSO2
C112	PSO1	PSO2
C113	1.48	0.74
C114	1.03	0.93
C115	PSO1	1
C116	3	1
C117	2	1.50
C201	1.96	1.96
C202	1.90	2.51
C203	1.51	1.51
C204	0.77	0.92
C205	2.33	2.25
C206	2.33	2.33
C207	2.34	2.12
C208	1.98	2.03
C209	2	2
C210	1.88	1.26
C211	2.12	1.78
C212	2.06	2.01
C213	2.15	1.61
C214	2.67	2.42
C215	2.75	2
C216	2.66	2.25
C217	1.73	1.73
C301	1.71	1.74

C302	2.28	2.28
C303	1.96	1.88
C304	1.72	1.71
C305	1.89	1.55
C306	0.6	0.45
C307	2.67	1.72
C308	2.66	2
C309	1.86	1.42
C310	1.70	2.02
C311	1.37	1.26
C312	2.22	2.17
C313	2.25	1.83
C314	1.39	1.54
C315	2.26	2.28
C316	2.40	2.09
C317	2.75	2.25
C401	1.12	1.04
C402	1.17	1.04
C403	1.52	1.62
C404	1.6	1.8
C405	2.50	1.72
C406	2.66	2.33
C407	2.6	2.4
C408	1.78	1.45
C409	1.59	1.63
C410	1.63	1.51
C411	1.96	1.6
C412	2.75	2.5

PSO Attainment Indirect

Survey	PSO1	PSO2
Student Exit Survey	3	3
Employer Survey	3	3
Faculty Survey	3	3

PSO Attainment Level

Course	PSO1	PSO2
Direct Attainment	1.90	1.69
InDirect Attainment	3	3

4 STUDENTS' PERFORMANCE (100) Total Marks 83.87

Institute Marks :

Table 4.1

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2022-23 (CAY)	2021-22 (CAYm1)	2020-21 (CAYm2)	2019-20 (CAYm3)	2018-19 (CAYm4)	2017-18 (CAYm5)	2016-17 (CAYm6)
Sanctioned intake of the program(N)	180	180	180	180	180	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)	198	198	192	193	180	120	120
Number of students admitted in 2nd year in the same batch via lateral entry (N2)	0	18	19	18	18	6	2
Separate division students, If applicable (N3)	0	0	0	0	0	0	0
Total number of students admitted in the programme(N1 + N2 + N3)	198	216	211	211	198	126	122

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
2022-23 (CAY)	198				
2021-22 (CAYm1)	216	133			
2020-21 (CAYm2)	211	133	133		
2019-20 (CAYm3)	211	108	101	98	
2018-19 (LYG)	198	120	116	103	99
2017-18 (LYGm1)	126	58	41	38	30
2016-17 (LYGm2)	122	52	42	37	34

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
2022-23 (CAY)	198				
2021-22 (CAYm1)	216	142			
2020-21 (CAYm2)	211	170	176		
2019-20 (CAYm3)	211	168	175	159	
2018-19 (LYG)	198	167	176	172	164
2017-18 (LYGm1)	126	106	103	101	84
2016-17 (LYGm2)	122	77	70	65	60

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]
2022-23 (CAY)	180	198	110.00
2021-22 (CAYm1)	180	198	110.00
2020-21 (CAYm2)	180	193	107.22

Average [(ER1 + ER2 + ER3) / 3] : 109.07

Assessment : 20.00

4.2 Success Rate in the stipulated period of the program (20)

Total Marks 8.42

4.2.1 Success rate without backlogs in any semester / year of study (15)

Institute Marks : 5.10

Item	Latest Year of Graduation, LYG (2018-19)	Latest Year of Graduation minus 1, LYGm1 (2017-18)	Latest Year of Graduation minus 2 LYGm2 (2016-17)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	198.00	126.00	122.00
Y Number of students who have graduated without backlogs in the stipulated period	99.00	30.00	34.00
Success Index [SI = Y / X]	0.50	0.24	0.28

Average SI [(SI1 + SI2 + SI3) / 3] : 0.34

Assessment [15 * Average SI] : 5.10

4.2.2 Sucess rate in stipulated period (5)

Institute Marks : 3.32

Item	Latest Year of Graduation, LYG (2018-19)	Latest Year of Graduation minus 1, LYGm1 (2017-18)	Latest Year of Graduation minus 2 LYGm2 (2016-17)
X Number of students admitted in the corresponding First year + admitted in 2nd year via lateral entry and seperated division, if applicable	198.00	126.00	122.00
Y Number of students who have graduated in the stipulated period	164.00	84.00	60.00
Success Index [SI = Y / X]	0.83	0.67	0.49

Average SI[(SI1 + SI2 + SI3) / 3]: 0.66

Assessment [5 * Average SI] : 3.32

Note : If 100% students clear without any backlog then also total marks scored will be 20 as both 4.2.1 & 4.2.2 will be applicable simultaneously.

4.3 Academic Performance in Second Year (10)

Total Marks 7.85

Institute Marks : 7.85

Academic Performance	CAYm2 (2020-21)	CAYm3 (2019-20)	LYG (2018-19)
Mean of CGPA or mean percentage of all successful students(X)	8.50	8.26	8.25
Total number of successful students (Y)	176.00	175.00	176.00
Total number of students appeared in the examination (Z)	189.00	186.00	185.00
API [X * (Y/Z)]	7.92	7.77	7.85

Average API [(AP1 + AP2 + AP3)/3] : 7.85

Assessment [AverageAPI] : 7.85

4.4 Placement, Higher Studies and Entrepreneurship (30) Total Marks 27.60

Institute Marks : 27.60

Item	LYG(2018-19)	LYGm1(2017-18)	LYGm2(2016-17)
Total No of Final Year Students(N)	172.00	101.00	65.00
No of students placed in the companies or goverment sector(X)	138.00	86.00	59.00
No of students admitted to higher studies with valid qualifying scores(GATE or equivalent State or National Level tests, GRE, GMAT etc.) (Y)	7.00	7.00	6.00
No of students turned enterpreneur in engineering/technology (Z)	0.00	0.00	0.00
Placement Index [(X+Y+Z)/N] :	0.84	0.92	1.00

Average Placement [(P1 + P2 + P3)/3] : 0.92

Assessment [30 * Average Placement] : 27.60

Program Name : Computer Science & Engg.
Assessment Year : 2021-22 (CAYm1)

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	MUTHANAPALLI AKSHAYA	18KQ1A0575	NALSOFT	18-03-2022
2	MUTTUM VENKATA YAMINI	18KQ1A0576	HCL	28-02-2022
3	N V S PARVATHI RAMANI CHAVALI	18KQ1A0577	DXC	25-05-2022
4	NAGANDLA SRI LAKSHMI SAI SANTHOSHI	18KQ1A0578	WIPRO	22994173 / 01-03-2022
5	NERELLA PRASANNA LAKSHMI	18KQ1A0581	MINDTREE	TN/80025560/22/ 06-01-2022
6	KEERTHANA ONTERU	18KQ1A0582	WIPRO	22997441/25-01-2022
7	YAMINI PALLAPU	18KQ1A0584	JOBIAK	20-02-2022
8	PATTIPATI SWATHI	18KQ1A0586	TCS	TCSL/DT20218212526/HYDERABAD /12-11-2021
9	POTHULA SAI RAKSHITHA	18KQ1A0587	WIPRO	24325233 / 11-03-2022
10	KEERTHI SIDDELA	18KQ1A0588	TA DIGITAL	27-02-2023
11	ROHITHA TALIYAKULA	18KQ1A0589	HEXAWARE	13-01-2022
12	SUPRIYA TUMMALAGUNTA	18KQ1A0591	HCL	18-09-2022
13	HARSHINI VEMULA	18KQ1A0593	TCS	TCSL/DT20218208256/HYDERBAD/12-11-2021
14	VEMULA NADIHA	18KQ1A0594	DXC	25-05-2022
15	SABIHA VEMULA	18KQ1A0595	DXC	25-05-2022
16	BADAM VENKATA RAMA CHANDRA REDDY	18KQ1A0596	TCS	TCSL/DT20218212760/HYDEARABAD / 13-11-2021
17	KUNCHALAPALLI SAI TEJA	18KQ1A0599	DXC	25-05-2022
18	KUNCHANUPALLI SRI RAMA KRISHNA	18KQ1A05A0	INFOSYS	HRD/3T/1003327276/22-23 /24-06-2022
19	MADDULURI VENKATA RAYUDU	18KQ1A05A1	TCS	TCSL/DT20218206914/HYDERABAD / 13-11-2021
20	MADAN MOHAN DANDIBOINA	18KQ1A05A2	HCL	13-08-2022
21	MANDADI VENKATA MANIKANTH	18KQ1A05A3	WIPRO	24144346 / 26-03-2022
22	MANDADI VENKATA RAO	18KQ1A05A4	MINDTREE	TN/80030686/22 / 10-03-2022
23	SRI VENKATA SIVA NAGARAJU MINDA	18KQ1A05A5	TA DIGITAL	27-02-2023
24	MURARISETTY SANDEEP	18KQ1A05A7	ENERGYTECH GLOBAL	01-06-2022
25	NARISETTY VENKATA YUGA YASWANTH	18KQ1A05A8	ZEMOSO TECHNOLOGIES	17-02-2022
26	SARATH CHANDRA NAVALURI	18KQ1A05A9	WIPRO TURBO	22997896 /12-07-2022
27	VEMANA SAI TANOJ REDDY	18KQ1A05C0	TOLLPLUS	01-07-2022
28	SUNKARA YASWANTH REDDY	18KQ1A05B1	TCS	TCSL/DT20218187765/HYDERABAD / 12-11-2021
29	PIKKILI SIVA KASI	18KQ1A05B4	WIPRO	23285456 / 24-01-2022
30	GUTTIKONDA SRAVANI	18KQ1A05B7	WIPRO	22995852 / 25-01-2022
31	SESHADRI THARUN	18KQ1A05B8	HCL	23-09-2022
32	BATTULA AKHILA	18KQ1A05C1	ACCENTURE	30-01-2023
33	BEJAWADA RACHANA REDDY	18KQ1A05C2	HACK WITH INFY	HRD/NOBA/1004309298 / 02-06-2022
34	SHAIK SALEEMA	18KQ1A05C3	TCS	TCSL/DT20218191182/HYDERABAD /12/11/2021
35	MADDISETTY SIVA TEJASWI	18KQ1A05C4	TA DIGITAL	27-02-2023
36	ORUGANTI LEELA SAI RAMYA SRI	18KQ1A05C5	DXC	24-08-2022
37	PABBISETTY SRIVALLI	18KQ1A05C6	JOBIAK	16-02-2022
38	PALANKI SAI NIKHITHA	18KQ1A05C7	DXC	22-08-2022
39	JYOTHI PERABOINA	18KQ1A05C8	DXC	09-09-2022
40	RAVURI SIVANI	18KQ1A05D0	DXC	25-05-2022
41	MOUNIKA SEELAM	18KQ1A05D4	WIPRO	24142730 / 26-03-2022
42	LANKE SUSHMA	18KQ1A05D5	TA DIGITAL	27-02-2023
43	SHAIK KARISHMA	18KQ1A05D6	CAPGEMINI	6432823/ 1537301 /10-03-2022
44	NAZMA SHAIK	18KQ1A05D7	HCL	29-09-2022
45	SHAIK SAMRIN	18KQ1A05D8	DXC	11-05-2022
46	SHAIK SHAHANAAZ	18KQ1A05D9	TCS	TCSL/DT20218167675/HYDERABAD / 12-11-2021
47	KAVYANJALI RAMPATHOTI	18KQ1A05E4	TCS	TCSL/DT20218188475/HYDERABAD / 12-11-2021
48	SRI HARSHAVI TIRUPATHI	18KQ1A05E5	WIPRO	23102630 / 01-06-2022
49	UPPUTURI SAI KOMALI	18KQ1A05E6	WIPRO	23048341 /22-01-2022
50	MANASA VINJAMURI	18KQ1A05E7	JOBIAK	02-02-2022
51	GONISAPUDI VENKATAKRISHNA	18KQ1A05F1	HCL	23-09-2022
52	MADAKA SAI TEJA	18KQ1A05F3	QUEST GLOBAL	QC20210346/23-11-2021
53	MEDIKONDA PRAVEEN KUMAR	18KQ1A05F4	WIPRO	23002593 / 27-01-2022
54	MYLAVARAPU VAMSI KRISHNA	18KQ1A05F5	WIPRO	24144742 / 26-03-2022
55	FAROOQ SHAIK	18KQ1A05F7	JOBIAK	02-02-2022
56	FIROWZ SHAIK	18KQ1A05F8	JOBIAK	02-02-2022
57	SHAIK MOHAMMAD JUBEAR	18KQ1A05G0	VISTEX-ASIA	HYDPDCH2022003 / 13-01-2022
58	RAFI SHAIK POLICHARLA	18KQ1A05G1	TIGER ANALYTICS	15-02-2022

59	SHAIK SHAHEED BASHA	18KQ1A05G2	CSS CORP	30-12-2021
60	TANNIRU SUBRAMANYAM	18KQ1A05G4	SOPRA STERIA	06-07-2022
61	THUMMAPUDI VENKATA SAKETH	18KQ1A05G5	HEXAWARE	14-01-2022
62	TUMMALAPENTA KARTHIK	18KQ1A05G6	WIPRO	22993620 / 23-01-2022
63	VADDE CHANDU	18KQ1A05G8	HCL	26-07-2022
64	VAKA AJITH	18KQ1A05G9	TCS	TCSL/DT20218198619/HYDERABAD / 12-11-2021
65	VINJAMURI ASHOK	18KQ1A05H0	WIPRO	24108287 / 22-03-2022
66	GALI SRIKANTH	18KQ1A05H1	TIGER ANALYTICS	15-02-2022
67	GUDIVADA NARENDRA BABU	18KQ1A05H3	TOLL PLUS	01-07-2022
68	PADARTHI VENKATA DINESH KUMAR	18KQ1A05H4	WIPRO	22997775 / 25-01-2022
69	RONDALA SAI CHAND	18KQ1A05I0	DELOITEE	23-11-2022
70	KONKALA SAI KALPANA	19KQ5A0501	HCL	07-09-2022
71	DORNADULA SIVANI	19KQ5A0504	CAPGEMINI	6365345/1537348 /21-10-2022
72	JAJULA SAILAJA	19KQ5A0508	TCS	TCSL/DT20218215183/HYDERABAD / 12-11-2021
73	GADDAM CHAKRADHAR REDDY	19KQ5A0509	JOBIAK	02-02-2022
74	MEDIKONDA MANEESHA	18KQ1A05H5	QUEST GLOBAL	QI-HR927710/2022/05-12-2022
75	PRASANTH REDDY MEKALA	19KQ5A0514	VISTEX-ASIA	HYDPDCH2022002 / 13-01-2022
76	DASILETI PAVAN KUMAR REDDY	19KQ5A0515	DXC	24-01-2022
77	GOLI VENKATESH	19KQ5A0516	WIPRO TURBO	22995552 / 07-12-2022
78	SAI NIKHIL KOTU	19KQ5A0518	DXC	25-05-2022
79	ADDANKI SUDHA MAHESWARI	18KQ1A0501	HCL	19-11-2022
80	AREKONDA BHANU SRI	18KQ1A0503	TCS	TCSL/DT20218194785/HYDERABAD/12-11-2021
81	BADARSINGHGARI VASAVI BHAVANI BAI	18KQ1A0504	TCS	TCSL/DT20218212839/HYDERABAD/13-11-2021
82	BALISETTY NAGA NIKITHA	18KQ1A0505	WIPRO	23000039/06-02-2022
83	BANALA NIKHITHA	18KQ1A0506	WIPRO	22998593/25-01-2022
84	POOJASRI BANDARU	18KQ1A0507	WIPRO	22994796/24-01-2022
85	BHAVANA THATI	18KQ1A0508	ACCENTURE	C11684047/30-01-2023
86	BOBBALA.NAGA SUNITHA	18KQ1A0510	CAPGEMINI	6448996/1540414/10-07-2022
87	BOMMANABOINA SRI CHANDANA	18KQ1A0511	WIPRO	22998410/24-01-2022
88	BORRA VENKATA SATHYA MOUNIKA	18KQ1A0512	TCS	TCSL/DT20218193832/HYDERABAD/13-11-2021
89	CHENNAMSETTY AKHILA	18KQ1A0513	WIPRO	22995572/29-01-2022
90	CHENNAMSETTY PRIYANKA	18KQ1A0514	TA DIGITAL	27-02-2023
91	NAYOMI CHERUKURI	18KQ1A0515	WIPRO	23002317 / 25-01-2022
92	MADHURI DANTHAM	18KQ1A0516	JOBIAK	16-02-2022
93	KOTTE LAKSHMI DEVI	18KQ1A0517	WIPRO TURBO	23002535 / 14-07-2022
94	DASARI KINNERA	18KQ1A0518	ZENSAR	0084278_8/2164329/06-04-2022
95	PRAVEENA DEVANABOINA	18KQ1A0519	WIPRO	23077474 / 01-02-2022
96	DUDEKULA SHAMEENA	18KQ1A0520	HEXAWARE	14-01-2022
97	GOLI VAISHNAVI	18KQ1A0521	TCS	TCSL/DT20218149951/HYDERABAD / 12-11-2021
98	GONUGUNTA SOWMYA	18KQ1A0522	WIPRO	23074593 / 24-01-2022
99	LAVANYA GORANTLA	18KQ1A0523	WIPRO	22998897 / 06-02-2022
100	GUDURI DIVYA PRABODHA	18KQ1A0524	HCL	02-09-2022
101	INAMPUDI SNEHA	18KQ1A0525	HCL	26-08-2022
102	LAKSHMI SUPRAJA KARUPARTHI	18KQ1A0526	WIPRO	22995833 / 06-02-2022
103	KORA NAGAPAVANI	18KQ1A0527	WIPRO	22999113 / 23-05-2022
104	MAGATHOTI DIVYA KUMARI	18KQ1A0528	HCL	22-09-2022
105	VAKA NEELIMA	18KQ1A0530	INFOSYS	HRD/3T/1004439524/22-23 / 24-06-2022
106	VAKA VANI	18KQ1A0531	ADP	01-03-2022
107	JERUGANTI.AMEESHA	18KQ1A0532	WIPRO	23074543 / 26-01-2022
108	ALAKUNTA DANAMURTHY	18KQ1A0533	WIPRO	23001982 / 25-01-2022
109	ANALA VENKATA PUSHPAK PRANEETH	18KQ1A0534	ADP	01-03-2022
110	BADUKURI MAHESH BABU	18KQ1A0537	TCS	TCSL/DT20218174550/HYDERABAD / 12-11-2021
111	BETHIREDDY RAVI TEJA	18KQ1A0539	WIPRO	22462857 / 25-01-2022
112	DURGA RAO BOJJA	18KQ1A0540	TCS	TCSL/DT20218187893/HYDERABAD /12-11-2021
113	VEMA TEJASWINI	18KQ1A0541	TCS	TCSL/DT20218212990/HYDERABAD / 05-12-2021
114	BULLA ELISHA BABU	18KQ1A0542	HCL	26-08-2022
115	MALLEBOYINA TARUN KUMAR	18KQ1A0545	CAPGEMINI	6326213/1611129 / 13-10-2022
116	GOLLA KRISHNA	18KQ1A0546	MINDTREE	TN/80026285/22 / 07-01-2022
117	KOKKILIGADDA UPENDRA	18KQ1A0547	TCS	TCSL/DT20218195967 / HYDERABAD / 12-11-2021

118	KUNCHALA ANKAMMA RAJU	18KQ1A0548	ADP	01-03-2022
119	GORANTLA TULASIRAM	18KQ1A0549	TA DIGITAL	27-02-2023
120	ILLINDRA RAGHU RAM SAI SRINIVAS GUPTA	18KQ1A0550	AMADEUS	11-07-2022
121	JAJULA SAI VENKATESH	18KQ1A0551	KAAR TECHNOLOGIES	11-04-2022
122	MARISETTY SURENDRA BABU	18KQ1A0554	MPHASIS	MPHTH_CD2022-0829
123	RAVITEJA MUNNANGI	18KQ1A0555	ENERGYTECH GLOBAL	29-12-2021
124	RAMAKRISHNA PENDYALA	18KQ1A0556	TCS	TCSL/DT20218168456/HYDERABAD / 12-11-2021
125	SETTY VENKATA SAI CHARAN	18KQ1A0558	HCL	01-08-2022
126	THIKKAVARAPU SRI VAMSI	18KQ1A0559	TCS	TCSL/DT20218183803/HYDERABAD / 12-11-2021
127	PRASANTHI DEVARAMPATI	18KQ1A0561	WIPRO	23003834 / 22-01-2022
128	KATARI CHANDRIKA SAI	18KQ1A0562	WIPRO	22993204 / 25-01-2022
129	KATUKURI BHOOMIKA	18KQ1A0563	TCS	TCSL/DT20218179069/HYDERABAD / 17-11-2021
130	GAYATRI KEERTHI	18KQ1A0564	WIPRO	22993688 / 22-01-2022
131	KESANAPALLI CHANDRIKA KUMARI	18KQ1A0565	CAPGEMINI	6364941/1526429 / 21-10-2022
132	KODURI SRAVANI	18KQ1A0566	HCL	01-08-2022
133	KOPPOLU SIREESHA	18KQ1A0567	DXC	07-08-2022
134	KOTIKALAPUDI KAVYA	18KQ1A0568	WIPRO	22993706 / 22-01-2022
135	DARA RAASI	18KQ1A0569	INFOSYS	HRD/3T/1003351006/22-23 / 24-06-2022
136	SHAIK AKHILA	18KQ1A0570	SOPRA STERIA	06-07-2022
137	MASANAM SUPRIYA	18KQ1A0572	TCS	TCSL/DT20218188930/HYDERABAD /13-11-2021
138	MOPIDEVI HIMABINDU	18KQ1A0574	CAPGEMINI	6452297/1544365 / 13-10-2022

Assessment Year : 2020-21 (CAYm2)

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	PRAVALLIKA ANCHALA	17KQ1A0501	WIPRO	21054322/29-09-2021
2	V LALITHA TEJASWINI BALABHADRAPATRUNI	17KQ1A0502	MINDTREE	TN/80020100/21 /07-07-2021
3	KRANTI REKHA CHERUKU	17KQ1A0503	CTS	14969902/23-09-2021
4	DHARANIKOTA VEDASRI	17KQ1A0505	APPS ASSOCIATES	20-09-2022
5	NAGA SRI GOLLA	17KQ1A0507	FORSMART INNOVATIONS	13-08-2021
6	PAVANI GUDI	17KQ1A0508	INFOSYS	HRD/3T/1002031289/21-22 /13-08-2021
7	NARASAKUMARI GUNTAKA	17KQ1A0509	ITC INFOTECH	05-01-2022
8	TIRUMALA KANDIPATI	17KQ1A0511	CSS CORP	30-12-2020
9	KAVYA KANUMURI	17KQ1A0512	TECHMAHINDRA	2173491 / ELTP-CAMPUS / 2021 / 15-12-2021
10	GEETHIKA KOMATIKUNTA	17KQ1A0513	ITC INFOTECH	05-01-2022
11	KOTUPALLI ALEKHYA	17KQ1A0514	CAPGEMINI	650252/01-07-2022
12	SWETHA RAVEENA REDDY MITTA	17KQ1A0516	CTS	17615453 / 23-09-2021
13	MANASA MOTUPALLI	17KQ1A0517	WIPRO	21054463 / 29-09-2021
14	SAI SWETHA NALLAPU	17KQ1A0519	WIPRO	21056771 / 29-09-2021
15	NAMBURI PRIYANKA	17KQ1A0520	INFOSYS	HRD/3T/1002020612/21-22 / 13-08-2021
16	BHARGAVI NUTHALAPATI	17KQ1A0522	ACCENTURE	C10003080/26-08-2021
17	YAMINI PILLI	17KQ1A0524	ITC INFOTECH	05-01-2022
18	PITTU AMRUTHA GAYATHRI	17KQ1A0525	TCS	TCSL/DT20206523038/KOLKATA / 09-08-2021
19	SRILAKSHMI POTHINENI	17KQ1A0526	CSS CORP	30-12-2020
20	SRAVANI POTLURI	17KQ1A0527	WIPRO	21059423 /29-09-2021
21	SWETHA RAMINENI	17KQ1A0528	ITC INFOTECH	05-01-2022
22	SAI SUSMITHA SETTY	17KQ1A0529	TCS	TCSL/DT20206557426/HYDERABAD / 11-01-2021
23	SHAIK CHARISHMA	17KQ1A0530	CTS	14952014 / 27-08-2021
24	FARHEENA AFREEN SHAIK	17KQ1A0532	INFOSYS / INFYTQ	HRD/3T/1001624638/21-22 /05-09-2021
25	SRIPATHI MAHESWARI	17KQ1A0533	TCS	TCSL/DT20206560332/1437948/HYDERABAD / 06-07-2021
26	V TRIVENI	17KQ1A0536	INFOSYS / INFYTQ	HRD/3T/1002024477/21-22 / 13-08-2021
27	ANJALI VAYILA	17KQ1A0537	GLOBALEDGE	17-05-2021
28	HARSHA VARDHAN BOKKASAM	17KQ1A0539	VISTEX ASIA	HYDSDCH2021073/14-09-2021
29	CHETTU PAVAN KUMAR	17KQ1A0540	FORCEBOLT	30-09-2021
30	VENKATA SAI AKHIL SHARMA GUDLURI	17KQ1A0541	TCS	TCSL/DT20206555403/HYDERABAD 11-01-2021
31	SAI LALITHA PRASANNA HEMANTH IPPAGUNTA	17KQ1A0542	ACCENTURE	C10014700 / 27-08-2021
32	VINAY SAI K	17KQ1A0544	TCS	TCSL/DT20206524192/HYDERABAD 13-01-2021
33	KUDALI AJAY KUMAR	17KQ1A0545	WIPRO	21059078 / 29-09-2021
34	THIRUMALA KOTESWARA RAO MOTUPALLI	17KQ1A0547	CTS	15557615/26-08-2021
35	MANIKANTA MUTCHU	17KQ1A0548	ACCENTURE	C10142074 /24-02-2022
36	PASUPULETI VENKATA SAI RAJA	17KQ1A0550	ACCENTURE	C10008124 / 26-08-2021
37	SADAM VENKATESWARLU	17KQ1A0552	INFOSYS / INFYTQ	HRD/NOBA/1002213826 / 02-08-2021
38	GOUSE BASHA SHAIK	17KQ1A0555	IVY COMPTECH	3292/49114/11-01-2022
39	HEMANTH BABU YATAGIRI	17KQ1A0560	ACCENTURE	C10002632/26-08-2021
40	AKULA NAVYA	17KQ1A0561	DELOITTE	23-12-2021
41	ANKINAPALLI BHAGYALAKSHMI	17KQ1A0562	GLOBALEDGE	23-08-2021
42	JYOTHI PRIYA AVULA	17KQ1A0563	WIPRO	21061011/29-09-2021
43	MANEESHA BADAM	17KQ1A0564	HCL	12-01-2022
44	AVANTHIKA CHEEMALADINNE	17KQ1A0566	KPIT	11-05-2021
45	CHEEMALA SRAVANTHI	17KQ1A0567	WIPRO	21010185 / 20-09-2021
46	DASARI HEMA SRI	17KQ1A0568	TCS	TCSL/DT20206523322/HYDERABAD / 11-01-2021
47	MADHAVI LATHA DEVARAPALLI	17KQ1A0569	WIPRO	21056776 /29-09-2021
48	NANDINI DOGIPARTHI	17KQ1A0570	DXC	22-09-2021
49	ANITHA DOSAKAYALAPATI	17KQ1A0571	WIPRO	21061562 / 29-09-2021
50	GALAM TEJA	17KQ1A0572	ACCENTURE	C9913076 / 17-08-21
51	ANUSHA GANDAM	17KQ1A0573	CAPGEMINI	640148 / 06-07-2022
52	GANJI VINEETHA	17KQ1A0574	WIPRO	20934654 / 20-09-2021
53	GAYATHRI KAILA	17KQ1A0577	MINDTREE	TN/80021205 /21/ 08-07-2021
54	KOMARA ANUSHA	17KQ1A0579	GLOBALEDGE	23-08-2021
55	KONDURU SUPRIYA	17KQ1A0580	WIPRO	21054478 / 29-09-2021
56	KOSURI PRIYANKA	17KQ1A0581	CSS CORP	30-12-2020
57	L VASUNDHRA DEVI	17KQ1A0583	LTI	LTI/HR/CAMPUS/EN1/2021 / 07-09-2021
58	CHANDANA MADDELA	17KQ1A0584	TCS	TCSL/DT20206559644/HYDERABAD/ 11-01-2021

59	ASRITHA MADAVARAPU	17KQ1A0585	INFOSYS	HRD/3T/1002126451/21-22 /16-08-2021
60	MEDAGAM VENKATA SRAVANI	17KQ1A0586	TCS	TCSL/DT20206525112/437713/HYDERABAD / 06-07-2021
61	JANANI MOTE	17KQ1A0587	HCL	12-01-2022
62	VENKATA SHALINI NAMBURI	17KQ1A0588	TECHMAHINDRA	2164328 / ELTP-CAMPUS / 2021 /15-12-2021
63	PRASANTHI NUTHANKI	17KQ1A0589	WIPRO	21061467/29-09-2021
64	SHAIK ASHIKA	17KQ1A0591	WIPRO	21053498 / 29-09-2021
65	SHAIK JAHEEZ	17KQ1A0592	KPIT	11-05-2021
66	SUMAYA FIRDOSE SHAIK	17KQ1A0593	GLOBALEDGE	23-08-2021
67	SRI RAM DIVYA SAI	17KQ1A0594	INFOSYS	HRD/3T/1002027304/21-22 / 13-08-2021
68	THATI SAKUNTHALA	17KQ1A0595	MPHASIS	MPHTH_CD2021-0700 /16-07-2021
69	HARIKA TAVANAM	17KQ1A0596	WIPRO	21058712 /29-09-2021
70	ADI LAKSHMI TIRUVAYIPATI	17KQ1A0597	FORSMART INNOVATIONS	13-08-2021
71	BHARGAVI UPPUTURI	17KQ1A0598	IBM	08-10-2021
72	RAMYA VIPPARLA	17KQ1A05A0	TATA ELXSI	06-09-2021
73	VENKATA SRAVANI YEDLA	17KQ1A05A1	ACCENTURE	C9885040 /10-08-2021
74	MAHESWARA RAO BOJJA	17KQ1A05A4	QUADRTRYX	QTX/HR/APP/022/2021-22 /20-05-2021
75	KUNCHALA NARASIMHA	17KQ1A05A7	HCL	12-01-2022
76	MANNE PAVAN CHANDRA	17KQ1A05A8	IVY COMPTECH	2703/49114 / 28-10-2022
77	VENKATA KRISHNA MODADUGU	17KQ1A05A9	CSS CORP	30-12-2020
78	BATTARUSETTY SURESH	17KQ1A05A3	HEXAWARE	02-06-2021
79	CHAITANYA KUMAR PUNUKU	17KQ1A05B2	IBM	08-10-2021
80	HARSHA VARDHAN PURINI	17KQ1A05B3	ADEAQUARE	05-07-2021
81	SRINADH SANGISETTY	17KQ1A05B4	MINDTREE	TN/80020812/21 /08-07-2021
82	RAJESH SIKARAM	17KQ1A05B5	HEXAWARE	02-06-2021
83	SIMHADRI VIJAYKUMAR	17KQ1A05B6	APPS ASSOCIATES	20-09-2021
84	VADAPALLI VENKATA SAI PAVAN	17KQ1A05B9	INFOSYS	HRD/3T/1002129758/21-22 / 22-07-2021
85	SAI UMESH GUNJI	18KQ5A0501	ACCENTURE	C10048437 / 07-09-2021
86	ANVESH YALLAMRAJU	18KQ5A0506	KPIT	11-05-2021

Assessment Year : 2019-20 (CAYm3)

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	AMBARAPU SAI LAVANYA	16KQ1A0501	NICHEHANDS	12-02-2020
2	ANNAM MANASA RANI	16KQ1A0503	IBM	24-09-2019
3	BATTULA SUPRIYA	16KQ1A0506	JUSTDIAL	19-02-2020
4	BOYAPATI SAI KALYANI	16KQ1A0507	CGI	20-11-2020
5	CHIMALAMARRI SAHITYA	16KQ1A0509	CGI	20-11-2020
6	DAMARLA KAMAKSHI	16KQ1A0510	TCS	TCSL/DT20195345240/HYD /13-09-2019
7	GALI KEERTHANA	16KQ1A0512	NICHEHANDS	12-02-2020
8	GONU JYOTHIRMAYI	16KQ1A0514	CGI	20-11-2020
9	GUDIPATI VENGAMAMBA	16KQ1A0515	NICHEHANDS	12-02-2020
10	GUDURI LUDHIYA JASMIN	16KQ1A0516	OPTUM	15-10-2019
11	IRUVURI LAKSHMI RAJYAM	16KQ1A0518	INFOSYS	HRD/3T/1000543570/20-21 /16-12-2020
12	JAMMALAMADUGI MOUNIKA	16KQ1A0519	WIPRO	9400842 / 19-06-2020
13	JUTIKE HEPSIBA	16KQ1A0520	SUTHERLAND GLOBAL	09-03-2020
14	KOVURI LAKSHMI SAI VINEETHA	16KQ1A0521	SUTHERLAND GLOBAL	09-03-2020
15	KOVURU HARSHITHA	16KQ1A0522	INFOSYS	HRD/3T/1000543283/20-21 / 26-11-2020
16	LAKA SRI LAKSHMI	16KQ1A0523	BUDDI HEALTH	21-08-2019
17	MEDAM PRIYANKA	16KQ1A0524	NALSOFT	18-03-2020
18	PONDURI MOUNIKA	16KQ1A0529	PRELUDE SYS	HRD /OFFR/303/U/0608 / 06-08-2020
19	SHAIK SALMA	16KQ1A0531	CAPGEMINI	4216894/1232145/04-04-2022
20	SURABHI SAI KAVYA	16KQ1A0532	JUSTDIAL	19-02-2020
21	THEERDALA SAI RANI	16KQ1A0533	PIVOX LABS	27-09-2019
22	BOGALA MADHUSUDHAN REDDY	16KQ1A0538	TECHMAHINDRA	2016382 / ELTP-CAMPUS/2020 / 15-12-2020
23	DEGALA VENKATA NAGA AMARA SAI YASWANTH	16KQ1A0540	TCS	TCSL/DT20195345541/HYD / 13-09-2019
24	GOLLAPOTHU VENKATESWARLU	16KQ1A0541	TCS	TCSL/DT20195347269/LUCKNOW/05-04-22
25	KANNELA CHENCHA RAO	16KQ1A0544	EIDIKO SYSTEMS	ELTP/2020 /11-02-2020
26	MANNAM ESWAR KUMAR	16KQ1A0550	JUSTDIAL	19-02-2020
27	TUMMA BRAHMA REDDY	16KQ1A0556	CTS	14024553 /28-01-2020
28	TURALAPATI MARUTHI LAKSHMIPATHI RAO	16KQ1A0557	TECHMAHINDRA	2170942 / ELTP-CAMPUS/2020 /15-12-2020
29	VUPPULURI SAI RAM	16KQ1A0559	JUSTDIAL	19-02-2020
30	ADINA SAI SRUTHI	16KQ1A0561	HCL	04-08-2020
31	BADAM ANITHA	16KQ1A0562	I BASE IT-QATTS	26-08-2022
32	BATTULA MOUNIKA	16KQ1A0564	TCS	TCSL/DT20195347080/1304466/HYD/ 21/12/2020
33	BUTTI SUBHASHINI	16KQ1A0565	SUTHERLAND GLOBAL	09-03-2020
34	ANUDEEPA CHAPPIDI	16KQ1A0567	ACCENTURE	C9355076, 01-04-2021
35	DODDAKA PRAVEENA	16KQ1A0568	TCS	TCSL/DT20195347604/KOLKATA / 14-04-2021
36	GADDAMADUGU NEELIMA	16KQ1A0570	TCS	TCSL/DT20195352838 /HYDERABAD /13-09-2021
37	INABATHINA KALYANI LAKSHMI	16KQ1A0573	JAAJI TECHNOLOGIES	07-02-2020
38	JUTURI VENKATA NAVYA	16KQ1A0574	GENPACT	17-01-2020
39	KAITHAPALLI SPANDANA	16KQ1A0575	SUTHERLAND	09-03-2020
40	KARETI VIMALA	16KQ1A0576	CAPGEMINI	4213714/1246289/04-04-2022
41	KATAM PRIYANKA	16KQ1A0577	ACCENTURE	C9304782/18-03-2021
42	KONASAM VIHARIKA REDDY	16KQ1A0578	HCL	04-08-2020
43	KUNDAM ANUHYA	16KQ1A0580	MIND TREE	TN/80012110/19/30-10-2019
44	MEDDELA VENKATA LAKSHMI SRAVANI	16KQ1A0581	TOPPR	09-03-2020
45	PATABANDULA SAI NAVYA	16KQ1A0583	WIPRO	9400887/19-06-2020
46	REVATHI PATHAPATI	16KQ1A0584	GLOBAL EDGE	17-05-2020
47	DILSHAD SHAIK	16KQ1A0588	INFOSYS	HRD/3T/1000543944/20-21 /26-11-2020
48	SHAIK PARVIN BANU	16KQ1A0589	CTS	14024416 / 28-01-2020
49	SHAIK SHAHINA	16KQ1A0590	TECHMAHINDRA	2028184/ ELTP-CAMPUS / 2020 / 15-12-2020
50	SHAIK UDAYINI	16KQ1A0591	INFOSYS	HRD/3T/1000693646/20-21 / 18-11-2020
51	SUDARSI LIKHITA	16KQ1A0592	SNOVASYS	15-10-2019
52	SWARNA PADMA LATHA	16KQ1A0593	CAPGEMINI	4472936/1235025/23-05-2022
53	TALLAPANENI HARIKA	16KQ1A0594	PIVOX LABS	27-09-2019
54	DAMARALA RAGHU RAM	16KQ1A0599	SUTHERLAND GLOBAL	09-03-2020
55	DARA RAVINDRA	16KQ1A05A0	INFOSYS	HRD/3T/1000543189/20-21/26-11-2020
56	JYOTHI AJITH	16KQ1A05A3	CTS	14024488 / 28-01-2020
57	BALCHA KALYAN PAVAN	16KQ1A05A4	CAPGEMINI	5715940/1247746/04-04-2022
58	KOTA SAI ABHINAV	16KQ1A05A5	WORKSBOT	20-07-2019

59	SIVA SHANKAR RAO KONDETI	16KQ1A05A6	ACCENTURE	C9355015 /01-04-2021
60	MANGALAPURI JASWANTH PAUL	16KQ1A05A7	JUSTDIAL	19-02-2020
61	NANDAM NAVEEN	16KQ1A05B1	CTS	14024420 /28-01-2020
62	PARITALA SESHA RAO	16KQ1A05B2	MIND TREE	TN/80012108/19 /30-10-2019
63	PERUGU VENKATA SAI PRAJWAL	16KQ1A05B3	CTS	14024531/28-01-2020
64	RAYAPATI DAVID RAJU	16KQ1A05B4	NALSOFT	18-03-2020
65	HARIPRASAD SANGOJI	16KQ1A05B5	CGI	24-03-2021
66	SHAIK KARIMULLA	16KQ1A05B6	WORKSBOT	20-07-2019
67	SHAIK SAJID	16KQ1A05B7	LEGATO	07-09-2020
68	VADICHERLA MOHAN REDDY	16KQ1A05B8	CTS	14024515/28-01-2020

4.5 Professional Activities (20) Total Marks 20.00

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

Institute Marks : 5.00

A. Availability & Activities of professional societies / chapters.

IEEE

IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. IEEE and its members inspire a global community through its highly cited publications, conferences, technology standards, and professional and educational activities.

CSI

Computer Society of India is a body of computer professionals in India. It was started on 6 March 1965 by a few computer professionals and has now grown to be the national body representing computer professionals. It has 72 chapters across India, 511 student branches, and 100,000 members

ACM

ACM, the worlds largest educational and scientific computing society, delivers resources that advance computing as a science and a profession. ACM provides the computing fields premier Digital Library and serves its members and the computing profession with leading-edge publications, conferences, and career resources.

ISTE

The Indian Society for Technical Education (ISTE) is the leading National Professional non-profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System.

Consolidated list of events conducted.

S.no	Academic Year	Student Chapter	No. of Events
1	2021-22	ISTE/CSI	12
2	2020-21	ISTE/CSI	11
3	2019-20	ISTE/CSI	10

List of Guest Lectures / webinars Conducted by the department.

Academic Year: 2021-22

S.no	Date	Name of the Event	Nature of the Event	Student Chapter	No of participants
1	18.11.2021	Workshop on Covid-19 High Disease prediction using Random Forest & XG boost classifier	Workshop	ISTE	49
2	13.11.2021	Webinar on Internship Opportunities	Webinar	ISTE	51
3	13.12.2021	Workshop on Comptia Security	Workshop	ISTE	46
4	25.06.2021	Webinar on Block chain and Applications	Webinar	ISTE	39
5	05.08.2021	Webinar on R&D	Webinar	ISTE	42
6	07.09.2021	Python with Machine Learning Quiz	Quiz	ISTE	53
7	01.10.2021	One Day Workshop on Machine Learning using R	Workshop	ISTE	46
8	25.10.2021	Webinar on Artificial Intelligence and Machine Learning	Webinar	ISTE	49
9	12.11.2021	Guest Lecture on Cyber Security	Guest Lecture	ISTE	43
10	02.12.2021	Quiz on IOT	Quiz	ISTE	52
11	17.06.2022	Guest lecture on AWS SERVICES	Guest lecture	ISTE	42
12	06.06.2022	Guest lecture on Microsoft Azure Fundamentals	Guest lecture	ISTE	45

Academic Year: 2020-21

S.no	Date	Name of the Event	Nature of the Event	Student Chapter	No of participants
1	04.01.2021	Workshop on Python Programming	Workshop	ISTE	65
2	28.06.2021	Workshop on Source code management using Git & Git Hub	Online Workshop	ISTE	48
3	05.07.2021	Workshop on React JS	Webinar	ISTE	42
4	10.07.2021	Webinar on Innovation Opportunities for Students	Webinar	ISTE	56
5	31.07.2021	Use of Technology in Education	Webinar	ISTE	52
6	05.08.2021	Workshop on IT Carrier Guidance	Workshop	ISTE	57
7	16.08.2021	Guest Lecture on Machine Learning Techniques	Guest Lecture	ISTE	48

8	02.09.2021	Workshop on IOT Applications	Workshop	ISTE	51
9	25.09.2021	Quiz On Artificial intelligence	Quiz	ISTE	53
10	03.10.2021	AI in Computer Vision	Webinar	ISTE	48
11	22.10.2021	AI in Cloud	Webinar	ISTE	51

Academic Year: 2019-20

S.no	Date	Name of the Event	Nature of the Event	Student Chapter	No of participants
1	22.07.2019	Workshop on Advanced Python Programming	Workshop	ISTE	48
2	12.08.2019	Workshop on IBM Blue	Workshop	CSI	58
3	06.09.2019	Workshop on FOSS	Workshop	ISTE	42
4	10.03.2020	Workshop on Big Data Analytics	Workshop	CSI	60
5	23.03.2020	Recent Trends in Machine Learning	Webinar	CSI	45
6	02.06.2020	Webinar on C	Webinar	CSI	51
7	21.06.2020	Webinar on Android Programming	Webinar	CSI	60
8	06.07.2020	Quiz on Machine learning and IOT	Quiz	ISTE	63
9	26.07.2020	Webinar on Magic of Deep Learning	Webinar	ISTE	46
10	12.08.2020	Quiz on Data Science	Quiz	ISTE	58

4.4.2 Publication of technical magazines, newsletters, etc. (5) Institute Marks : 5.00

Technical Magazines:

The department of computer science and engineering, PACE ITS publishes magazines yearly once. In this magazines details regarding to department vision & mission, Department achievements, MOUs signed by department, list of events conducted by department, student participation & achievements, faculty achievements and toppers list are published.

S.no	Academic Year		Issue No	Name of the Editors	Publisher
1	2019-20	Yearly Magazine	01	S.Giri Babu(Associated Professor) Sk.Heena Kauser(Assistant Professor) BALISETTY NAGA NIKITHA (II Year student) SHAIK AKHILA (II Year student) NARRA VANDANA (III Year student) GANJI VINEETHA (III Year student)	Department of Computer Science and Engineering
2	2020-21		01	S.Giri Babu(Associated Professor) Sk.Heena Kauser(Assistant Professor) KANDI PUJITHA (II Year student) GHANTA MANASA (II Year student) BALISETTY NAGA NIKITHA (III Year student) SHAIK AKHILA (III Year student)	Department of Computer Science and Engineering
3	2021-22		01	S.Giri Babu(Associated Professor) Sk.Heena Kauser(Assistant Professor) BACHU VYSHNAVI (II Year student) ARETI SUSHMA (II Year student) KANDI PUJITHA (III Year student) GHANTA MANASA (III Year student)	Department of Computer Science and Engineering

Newsletters:

The department of computer science and engineering, PACE ITS publishes magazines yearly once. In this magazines details regarding to department vision & mission, Department achievements, MOUs signed by department, list of events conducted by department, student participation & achievements, faculty achievements and toppers list are published.

Academic Year		Issue no	Name of the Editors	Publisher
2019-20	Newsletter	01	S.Giri Babu(Associated Professor) SHAIK AKHILA (II Year student)	Department of Computer Science and Engineering
		02	S.Giri Babu(Associated Professor) SHAIK AKHILA (II Year student)	Department of Computer Science and Engineering
		03	S.Giri Babu(Associated Professor) SHAIK AKHILA (II Year student)	Department of Computer Science and Engineering
		04	S.Giri Babu(Associated Professor) SHAIK AKHILA (II Year student)	Department of Computer Science and Engineering
2020-21		01	Sk.Heena Kauser(Assistant Professor) BALISETTY NAGA NIKITHA (III Year student)	Department of Computer Science and Engineering
		02	Sk.Heena Kauser(Assistant Professor) BALISETTY NAGA NIKITHA (III Year student)	Department of Computer Science and Engineering
		03	Sk.Heena Kauser(Assistant Professor) BALISETTY NAGA NIKITHA (III Year student)	Department of Computer Science and Engineering
		04	Sk.Heena Kauser(Assistant Professor) BALISETTY NAGA NIKITHA (III Year student)	Department of Computer Science and Engineering

2021-22		01	S.Giri Babu(Associated Professor) GHANTA MANASA (III Year student)	Department of Computer Science and Engineering
		02	S.Giri Babu(Associated Professor) GHANTA MANASA (III Year student)	Department of Computer Science and Engineering
		03	S.Giri Babu(Associated Professor) GHANTA MANASA (III Year student)	Department of Computer Science and Engineering
		04	S.Giri Babu(Associated Professor) GHANTA MANASA (III Year student)	Department of Computer Science and Engineering

4.4.3 Participation in inter-institute events by students of the program of study (10) Institute Marks : 10.00

The Department of Computer Science and Engineering in PACE ITS Encourages students to participate in various events taking place in our state and out of state. So many of our students performed well in the events and achieved good achievements in the events. The details of student's participation in inter – institute events within the state and out of the state, student's achievements in inter – institute events within the state and out of the state in the academic years 2021-22, 2020-21, and 2019-20 are mentioned below.

Students Participation (within state / other state)

S.no	Academic year	Total No. of participation Certificates	No. of Participation certificates from within the state	No of participation certificates from other states
1	2021-22	211	186	25
2	2020-21	38	22	16
3	2019-20	38	30	8

Students Achievements (within state / other state)

S.no	Academic year	Total No. of Achievement Certificates	No. of Achievement certificates from within the state	No of Achievement certificates from other states
1	2021-22	30	25	5
2	2020-21	8	5	3
3	2019-20	3	2	1

5 FACULTY INFORMATION AND CONTRIBUTIONS (200) Total Marks 177.24

Sr. No	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)	Dat Lea
1	Dr. Suresh Dara	AQZPD1621R	ME/M. Tech and PhD	30/03/2015	Computer Science and Engineering	38	2	1	Professor	01/06/2022	01/06/2022	Regular	Yes	
2	Dr. G.Samba Siva Rao	AGVPG0571D	ME/M. Tech and PhD	19/02/2008	Computer Science and Engineering	5	0	0	Professor	03/01/2018	03/01/2018	Regular	Yes	
3	Dr. P.Prabakaran	AJFPP1644P	ME/M. Tech and PhD	01/12/2012	Computer Science and Engineering	6	0	0	Professor	01/06/2018	03/06/2013	Regular	Yes	
4	Dr. Nedunchezhian	AUWPN3820H	ME/M. Tech and PhD	08/11/2016	Computer Science and Engineering	5	0	0	Professor	04/12/2017	04/12/2017	Regular	Yes	
5	Dr. R. Veeranjaneyulu	AFOPV1501N	ME/M. Tech and PhD	25/05/2016	Computer Science and Engineering	5	0	0	Professor	02/12/2017	11/06/2008	Regular	Yes	
6	Dr T.R Chaitanya	AKHPT9530B	ME/M. Tech and PhD	28/04/2016	Computer Science and Engineering	23	2	0	Professor	29/04/2016	03/06/2014	Regular	Yes	
7	Dr.Pathan Hussain Basha	BBNPP2448A	ME/M. Tech and PhD	01/09/2018	Computer Science and Engineering	26	0	0	Associate Professor	05/06/2020	05/06/2020	Regular	Yes	
8	Dr. A. Seshagiri Rao	AKHPA3391H	ME/M. Tech and PhD	25/05/2016	Computer Science and Engineering	24	0	0	Associate Professor	02/07/2020	02/07/2020	Regular	Yes	
9	Dr. M.Sreenivasulu	APEPM8877P	ME/M. Tech and PhD	01/07/2015	Computer Science and Engineering	5	0	0	Associate Professor	01/03/2018	03/01/2018	Regular	Yes	
10	Dr. K.Venkataramana	BGFPK9068A	ME/M. Tech and PhD	01/03/2017	Computer Science and Engineering	5	0	0	Associate Professor	03/01/2018	03/01/2018	Regular	Yes	
11	Dr. K.G.S Venkatesan	AFVPV6827N	ME/M. Tech and PhD	02/05/2011	Computer Science and Engineering	6	0	0	Professor	04/12/2017	04/12/2017	Regular	Yes	
12	Dr Nagarjuna E	ABCPN7284K	ME/M. Tech and PhD	02/11/2016	Computer Science and Engineering	6	0	0	Associate Professor	02/06/2020	02/06/2020	Regular	Yes	
13	Dr K. B. Jagadish Kumar	COKPJ7740F	ME/M. Tech and PhD	24/06/2017	Computer Science and Engineering	5	0	0	Associate Professor	01/06/2020	01/06/2020	Regular	Yes	
14	Dr.T.Sreenivasulu	ANIPT0100F	ME/M. Tech and PhD	05/11/2018	Computer Science and Engineering	5	0	0	Associate Professor	12/06/2020	12/06/2020	Regular	Yes	
15	Dr. U. Naresh	ABXPU4069R	ME/M. Tech and PhD	01/07/2016	Computer Science and Engineering	5	0	0	Associate Professor	01/06/2020	01/06/2020	Regular	Yes	
16	Dr.M. Srinivasa Rao	DIQPS0829N	ME/M. Tech and PhD	02/03/2020	Computer Science and Engineering	11	0	0	Associate Professor	23/03/2020	02/06/2012	Regular	No	14/
17	S.Giri Babu	CBGPS7607N	M.E/M.Tech	01/01/2010	Computer Science and Engineering	4	0	0	Assistant Professor		03/12/2010	Regular	Yes	
18	V.Sri Harsha	COYPS7512D	M.E/M.Tech	01/11/2012	Computer Science and Engineering	18	0	0	Assistant Professor		07/11/2012	Regular	Yes	
19	SK.Heena Kauser	GGRPS2024F	M.E/M.Tech	02/02/2015	Computer Science and Engineering	3	0	0	Assistant Professor		15/06/2015	Regular	Yes	
20	SK.Jilani Basha	ELVPS6516M	M.E/M.Tech	01/12/2015	Computer Science and Engineering	3	0	0	Assistant Professor		04/01/2016	Regular	Yes	
21	Ch.Mastan	BGJPC2324R	M.E/M.Tech	01/12/2012	Computer Science and Engineering	1	0	0	Assistant Professor		07/04/2021	Regular	No	07/
22	V.Gopi Krishna	AIKPV7425J	M.E/M.Tech	01/12/2012	Computer Science and Engineering	3	0	0	Assistant Professor		07/12/2012	Regular	Yes	
23	R.Pavan Kumar	AYJPR4215R	M.E/M.Tech	01/09/2017	Computer Science and Engineering	1	0	0	Assistant Professor		29/06/2020	Regular	Yes	
24	A .Mounika	BNUPA9446A	M.E/M.Tech	28/11/2018	Computer Science and Engineering	1	0	0	Assistant Professor		05/05/2022	Regular	Yes	

25	T .Kishore Babu	ATLPT0219L	M.E/M.Tech	16/08/2010	Computer Science and Engineering	1	0	0	Assistant Professor		11/06/2020	Regular	Yes	
26	D .Janardhan Reddy	AOAPD6465Q	M.E/M.Tech	01/02/2013	Computer Science and Engineering	6	0	0	Assistant Professor		15/05/2013	Regular	Yes	
27	CH .Ravindra Babu	ALNPC2645P	M.E/M.Tech	01/05/2010	Computer Science and Engineering	3	0	0	Assistant Professor		23/09/2015	Regular	Yes	
28	P .V Subba Reddy	AVBPP2375H	M.E/M.Tech	11/07/2003	Computer Science and Engineering	4	0	0	Assistant Professor		07/11/2017	Regular	Yes	
29	N Murali Krishna	AHPPN6192A	M.E/M.Tech	21/12/2015	Computer Science and Engineering	1	0	0	Assistant Professor		15/06/2020	Regular	Yes	
30	N .Srinivasa Rao	AIQPN6926Q	M.E/M.Tech	08/06/2010	Computer Science and Engineering	2	0	0	Assistant Professor		28/09/2020	Regular	Yes	
31	K .Raja Kiran	CDGPK5282D	M.E/M.Tech	08/10/2005	Computer Science and Engineering	0	0	0	Assistant Professor		20/06/2020	Regular	Yes	
32	B .V Sai Mounika	DXKPB8757D	M.E/M.Tech	05/02/2018	Computer Science and Engineering	0	0	0	Assistant Professor		04/04/2022	Regular	Yes	
33	V . G .S Abhishikth	AXXPA7490E	M.E/M.Tech	01/12/2014	Computer Science and Engineering	0	0	0	Assistant Professor		15/07/2021	Regular	Yes	
34	M .Chiranjeevi	BBEPM7465D	M.E/M.Tech	17/12/2015	Computer Science and Engineering	0	0	0	Assistant Professor		01/06/2021	Regular	Yes	
35	SK .Sumi Anju	HGMPS2449E	M.E/M.Tech	10/11/2021	Computer Science and Engineering	1	0	0	Assistant Professor		13/11/2021	Regular	Yes	
36	P Ramalingamma	EIXPR9998M	M.E/M.Tech	12/06/2010	Computer Science and Engineering	2	0	0	Assistant Professor		01/06/2020	Regular	Yes	
37	G Nagarjuna	BPMPG4490J	M.E/M.Tech	24/04/2018	Computer Science and Engineering	2	0	0	Assistant Professor		01/06/2020	Regular	Yes	
38	B .Rajeswari	BYOPB7804A	M.E/M.Tech	16/09/2019	Computer Science and Engineering	1	0	0	Assistant Professor		01/06/2020	Regular	Yes	
39	G .Hanumantha Rao	ANGPG5056R	M.E/M.Tech	01/10/2010	Computer Science and Engineering	0	0	0	Assistant Professor		09/04/2021	Regular	Yes	
40	K. Siva Krishana	BIPPK4680N	M.E/M.Tech	01/01/2016	Computer Science and Engineering	0	0	0	Assistant Professor		29/09/2020	Regular	No	10/
41	Sk. Jahangeer Basha	BUBPS2665B	M.E/M.Tech	11/02/2013	Computer Science and Engineering	0	0	0	Assistant Professor		28/09/2020	Regular	No	28/
42	S .Phani Kumar	CNOPS2976K	M.E/M.Tech	10/12/2012	Computer Science and Engineering	15	0	0	Assistant Professor		17/12/2012	Regular	No	18/
43	B .Raja Kumari	LJMPK3257M	M.E/M.Tech	01/06/2010	Computer Science and Engineering	0	0	0	Assistant Professor		05/10/2020	Regular	No	10/
44	P .Kartheek	BSSPP6508D	M.E/M.Tech	02/11/2015	Computer Science and Engineering	0	0	0	Assistant Professor		04/05/2022	Regular	Yes	
45	G .Radhika Depthi	ATOPG5653J	M.E/M.Tech	02/12/2013	Computer Science and Engineering	0	0	0	Assistant Professor		05/10/2021	Regular	Yes	
46	K .Shamshad Begum	GIXPB3420G	M.E/M.Tech	30/11/2021	Computer Science and Engineering	0	0	0	Assistant Professor		01/09/2022	Regular	Yes	
47	S .Pavani	GKOPP8634K	M.E/M.Tech	01/04/2022	Computer Science and Engineering	0	0	0	Assistant Professor		02/05/2022	Regular	Yes	
48	K .Suresh Babu	CYCPK7632N	M.E/M.Tech	01/03/2017	Computer Science and Engineering	0	0	0	Assistant Professor		03/11/2020	Regular	Yes	
49	D .Jagadeesh	APYPD0435P	M.E/M.Tech	27/05/2014	Computer Science and Engineering	0	0	0	Assistant Professor		21/11/2020	Regular	Yes	
50	B .Karthik	CDJPB2333P	M.E/M.Tech	01/12/2016	Computer Science and Engineering	0	0	0	Assistant Professor		24/02/2021	Regular	Yes	

51	K .Pushpa	DWRPK6792R	M.E/M.Tech	31/12/2018	Computer Science and Engineering	0	0	0	Assistant Professor		04/09/2021	Regular	No	26/
52	Sk .Sabeena	IKGPS6422G	M.E/M.Tech	19/01/2017	Computer Science and Engineering	1	0	0	Assistant Professor		20/11/2017	Regular	Yes	
53	B Sravani	BTZPB5240C	M.E/M.Tech	18/07/2019	Computer Science and Engineering	2	0	0	Assistant Professor		01/08/2019	Regular	Yes	
54	Mohammed Shabana	BPVPM2727M	M.E/M.Tech	12/07/2012	Computer Science and Engineering	4	0	0	Assistant Professor		20/06/2020	Regular	No	30/
55	D .Anandam	AYBPD2257M	M.E/M.Tech	02/01/2012	Computer Science and Engineering	4	0	0	Assistant Professor		02/06/2012	Regular	No	31/
56	M .Kranthi	ATUPM7900N	M.E/M.Tech	02/12/2013	Computer Science and Engineering	0	0	0	Assistant Professor		04/10/2021	Regular	No	04/
57	B .Srinivasulu	BPZPB1698L	M.E/M.Tech	01/02/2014	Computer Science and Engineering	8	0	0	Assistant Professor		01/05/2019	Regular	No	05/
58	K .Kalpana	EMPPK2384L	M.E/M.Tech	01/05/2012	Computer Science and Engineering	0	0	0	Assistant Professor		01/03/2021	Regular	No	30/
59	M .Chaithanya Bharathi	DUAPM5206D	M.E/M.Tech	10/03/2014	Computer Science and Engineering	3	0	0	Assistant Professor		15/09/2021	Regular	Yes	
60	A .Amruthavalli	ATLPT0219P	M.E/M.Tech	01/12/2012	Computer Science and Engineering	0	0	0	Assistant Professor		11/06/2020	Regular	No	09/
61	Dr.S. Raj Anand	AJTPR8633G	ME/M. Tech and PhD	02/03/2015	Computer Science and Engineering	7	0	0	Professor	26/11/2018	26/11/2018	Regular	No	12/
62	Dr. S. Radhakrishnan	AODPR3999C	ME/M. Tech and PhD	02/12/2019	Computer Science and Engineering	5	0	0	Professor		01/06/2019	Regular	No	05/
63	E . V.Nagajyothi	AAPPE4392N	M.E/M.Tech	01/04/2009	Computer Science and Engineering	17	0	0	Assistant Professor		03/06/2014	Regular	No	30/
64	G.Srinivasarao	ATNPG8318D	M.E/M.Tech	01/07/2009	Computer Science and Engineering	8	0	0	Assistant Professor		03/06/2014	Regular	No	03/
65	P .Lokaiah	BEFPP4677E	M.E/M.Tech	02/12/2013	Computer Science and Engineering	3	0	0	Assistant Professor		18/06/2018	Regular	No	12/
66	B. Thirumala Rao	CLZPB5877N	M.E/M.Tech	01/08/2018	Computer Science and Engineering	0	0	0	Assistant Professor		01/09/2018	Regular	No	27/
67	A .Ramya Krishna	ASZPA9895Q	M.E/M.Tech	02/12/2013	Computer Science and Engineering	1	0	0	Assistant Professor		07/06/2016	Regular	No	31/
68	D. Narayana	CCEPD9582N	M.E/M.Tech	01/01/2014	Computer Science and Engineering	0	0	0	Assistant Professor		13/08/2018	Regular	No	21/
69	Ch. Sandhya Rani	BJNPC9780J	M.E/M.Tech	02/12/2013	Computer Science and Engineering	0	0	0	Assistant Professor		01/06/2018	Regular	No	21/
70	V. Suresh	FGUPS3078B	M.E/M.Tech	02/04/2012	Computer Science and Engineering	0	0	0	Assistant Professor		01/06/2018	Regular	No	24/
71	R .Devi Uma	CGAPD3424K	M.E/M.Tech	09/05/2018	Computer Science and Engineering	0	0	0	Assistant Professor		04/09/2021	Regular	Yes	

5.1 Student-Faculty Ratio (SFR) (20) Total Marks 20.00

Institute Marks : 20

UG

No. of UG Programs in the Department 1

COMPUTER SCIENCE AND ENGINEERING						
Year of Study	**CAY**		**CAYm1**		**CAYm2**	
	(2022-23)		**(2021-22)**		**(2020-21)**	
	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	180	18	180	18	180	18
3rd Year	180	18	180	18	180	18
4th Year	180	18	180	18	120	6
Sub-Total	**540**	**54**	**540**	**54**	**480**	**42**
Total	**594**		**594**		**522**	
Grand Total	594		594		522	

PG

No. of PG Programs in the Department 1

COMPUTER SCIENCE AND ENGINEERING			
Year of Study	**CAY(2022-23)**	**CAYm1(2021-22)**	**CAYm2 (2020-21)**
	Sanction Intake	**Sanction Intake**	**Sanction Intake**
1st Year	18	18	18
2nd Year	18	18	18
Total	**36**	**36**	**36**
Grand Total	36	36	36

SFR

No. of UG Programs in the Department 1

No. of PG Programs in the Department 1

Description	**CAY(2022-23)**	**CAYm1 (2021-22)**	**CAYm2 (2020-21)**
Total No. of Students in the Department(S)	630 **Sum total of all (UG+PG) students**	630 **Sum total of all (UG+PG) students**	558 **Sum total of all (UG+PG) students**
No. of Faculty in the Department(F)	48 **F1**	52 **F2**	46 **F3**
Student Faculty Ratio(SFR)	13.13 **SFR1=S1/F1**	12.13 **SFR2=S2/F2**	12.12 **SFR3=S3/F3**
Average SFR	12.46 **SFR=(SFR1+SFR2+SFR3)/3**		
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(2022-23)	48	0
CAYm1(2021-22)	52	0
CAYm2(2020-21)	46	0

Average SFR for three assessment years : 12.46

Assessment SFR : 20

5.2 Faculty Cadre Proportion (20) Total Marks 20.00

Institute Marks : 20.00

Year	Professors		Associate Professors		Assistant Professors	
	Required F1	Available	Required F2	Available	Required F3	Available
CAY(2022-23)	3.00	7.00	7.00	8.00	21.00	33.00
CAYm1(2021-22)	3.00	6.00	7.00	9.00	21.00	37.00
CAYm2(2020-21)	3.00	6.00	6.00	9.00	18.00	31.00
Average Numbers	3.00	6.33	6.67	8.67	20.00	33.67

Cadre Ratio Marks [(AF1 / RF1) + [(AF2 / RF2) * 0.6] + [(AF3 / RF3) * 0.4]] * 10 : 20.00

5.3 Faculty Qualification (20)

Total Marks 19.24

Institute Marks : 19.24

	X	Y	F	FQ = 2 x [(10X + 4Y) / F)]
2022-23(CAY)	15	33	31.00	18.19
2021-22(CAYm1)	15	37	31.00	19.23
2020-21(CAYm2)	15	31	27.00	20.30

Average Assessment : 19.24

5.4 Faculty Retention (10)

Total Marks 8.00

Institute Marks : 8.00

Description	2021-22 (CAYm1)	2022-23 (CAY)
No of Faculty Retained	41	34
Total No of Faculty	46	46
% of Faculty Retained	89	74

Average : 82.00

Assessment Marks : 8.00

5.5 Faculty competencies in correlation to Program Specific Criteria (10)

Total Marks 10.00

Institute Marks : 10.00

A. Specialization:

The program specific criteria for the B. Tech (Computer Science and Engineering) Program at PACE Institute of Technology & Sciences are designed as per the guidelines specified by UGC, AICTE and Affilaiting University. The curriculum includes a wide variety of courses that involves the following Design, Programming, and Research. Faculties are specialized in different streams of domains, as it includes designing the courses very effectively.

Table 5.1: Faculty Specialization

Sl.No	FacultyName	Specialization	Area of Research Interest
1	Dr. Suresh Dara	Computer Science & Engineering	Artificial Intelligence &Machine Learning
2	Dr. G.Samba Siva Rao	Computer Science & Engineering	Big Data & DataMining
3	Dr. K.G.S Venkatesan	Computer Science & Engineering	Artificial Intelligence &Machine Learning
4	Dr. P.Prabakaran	Computer Science & Engineering	Networks& Security
5	Dr. Nedunchezhian	Computer Science & Engineering	IOT & Deep Learning
6	Dr. R. Veeranjaneyulu	Computer Science & Engineering	Networks& Security
7	Dr T.R Chaitanya	Computer Science & Engineering	Artificial Intelligence &Machine Learning
8	DrM.Srinivasulu	Computer Science & Engineering	Networks& Security
9	Dr.Pathan Hussain Basha	Computer Science & Engineering	Networks& Security
10	Dr. A. Seshagiri Rao	Computer Science & Engineering	Big Data & DataMining
11	Dr. K.Venkataramana	Computer Science & Engineering	Artificial Intelligence &Machine Learning
12	DrNagarjuna E	Computer Science & Engineering	IOT & Deep Learning
13	DrJagadish Kumar KB	Computer Science & Engineering	Cloud Computing/Distributed Computing
14	Dr.T.Sreenivasulu	Computer Science & Engineering	Big Data & DataMining
15	Dr. U. Naresh	Computer Science & Engineering	Networks& Security
16	S.GiriBabu	Computer Science & Engineering	Networks& Security
17	V.Sri Harsha	Computer Science & Engineering	Artificial Intelligence &Machine Learning
18	SK.HeenaKauser	Computer Science	Networks& Security
19	SK.JilaniBasha	Computer Science & Engineering	Artificial Intelligence &Machine Learning
20	V.Gopi Krishna	Computer Science & Engineering	Artificial Intelligence &Machine Learning
21	R.Pavan Kumar	Computer Science & Engineering	Big Data & DataMining
22	A.Mounika	Computer Science & Engineering	Cloud Computing/Distributed Computing
23	T.KishoreBabu	Computer Science & Engineering	Big Data & DataMining
24	D.Janardhan Reddy	Computer Science	Networks& Security
25	CH.RavindraBabu	Software Engineering	Artificial Intelligence &Machine Learning
26	P.V Subba Reddy	Computer Science & Engineering	Cloud Computing/Distributed Computing
27	N Murali Krishna	Computer Science & Engineering	Artificial Intelligence &Machine Learning
28	N.Srinivasa Rao	Computer Science & Engineering	Artificial Intelligence &Machine Learning
29	K.Raja Kiran	Computer Science	Big Data & DataMining
30	B.V.SaiMounika	Computer Science & Engineering	Cloud Computing/Distributed Computing
31	M.Chiranjeevi	Computer Science	IOT & Deep Learning
32	SK.Sumi Anju	Computer Science & Engineering	Cloud Computing/Distributed Computing
33	P Ramalingamma	Computer Science & Engineering	Artificial Intelligence &Machine Learning
34	G Nagarjuna	Computer Science & Engineering	Artificial Intelligence &Machine Learning
35	B.Rajeswari	Computer Science & Engineering	Artificial Intelligence &Machine Learning
36	G.Hanumantha Rao	Computer Science & Technology	Cloud Computing/Distributed Computing
37	P.Kartheek	Software Engineering	IOT & Deep Learning
38	G.RadhikaDepthi	Computer Science & Engineering	Networks& Security
39	K.Shamshad Begum	Computer Science & Engineering	Artificial Intelligence &Machine Learning
40	V.G.S. Abhishikth	Computer Science & Engineering	Networks& Security
41	S.Pavani	Computer Science & Engineering	Networks& Security

42	K.SureshBabu	Computer Science & Engineering	Artificial Intelligence &Machine Learning
43	D.Jagadeesh	Computer Science & Engineering	Cloud Computing/Distributed Computing
44	B.Karthik	Computer Science & Engineering	Artificial Intelligence &Machine Learning
45	Mrs.R.Devi Uma	Computer Science & Engineering	IOT & Deep Learning
46	M.ChaithanyaBharathi	Computer Science & Engineering	Artificial Intelligence &Machine Learning
47	Ms.Sk.Sabeena	Computer Science & Technology	Cloud Computing/Distributed Computing
48	B Sravani	Computer Science & Engineering	IOT & Deep Learning
49	Dr.M. Srinivasa Rao	Computer Science & Engineering	Artificial Intelligence &Machine Learning
50	Ch.Mastan	Computer Science & Engineering	Networks& Security
51	K. Siva Krishana	Computer Science & Engineering	IOT & Deep Learning
52	Sk. JahangeerBasha	Computer Science & Engineering	IOT & Deep Learning
53	S .Phani Kumar	Web Technologies	Big Data & DataMining
54	B .Raja Kumari	Computer Science & Engineering	IOT & Deep Learning
55	K .Pushpa	Computer Science & Engineering	Artificial Intelligence &Machine Learning
56	Mohammed Shabana	Computer Science & Engineering	Artificial Intelligence &Machine Learning
57	D .Anandam	Computer Science & Engineering	Networks& Security
58	M .Kranthi	Computer Science & Engineering	Cloud Computing/Distributed Computing
59	B .Srinivasulu	Computer Science & Engineering	Big Data & DataMining
60	K .Kalpana	Computer Science & Engineering	Networks& Security
61	A .Amruthavalli	Computer Science & Engineering	Cloud Computing/Distributed Computing
62	Dr.S. Raj Anand	Computer Science & Engineering	Networks& Security
63	Dr. S. Radhakrishnan	Computer Science & Engineering	IOT & Deep Learning
64	E .V.Nagajyothi	Computer Science & Engineering	Artificial Intelligence &Machine Learning
65	G.Srinivasarao	Computer Science & Engineering	Artificial Intelligence &Machine Learning
66	P .Lokaiah	Computer Science & Engineering	Networks& Security
67	B. Thirumala Rao	Computer Science & Engineering	Big Data & DataMining
68	A .Ramya Krishna	Computer Science & Engineering	Networks& Security
69	D. Narayana	Computer Science & Engineering	IOT & Deep Learning
70	Ch. Sandhya Rani	Computer Science & Engineering	Cloud Computing/Distributed Computing
71	V. Suresh	Computer Science & Engineering	Artificial Intelligence &Machine Learning

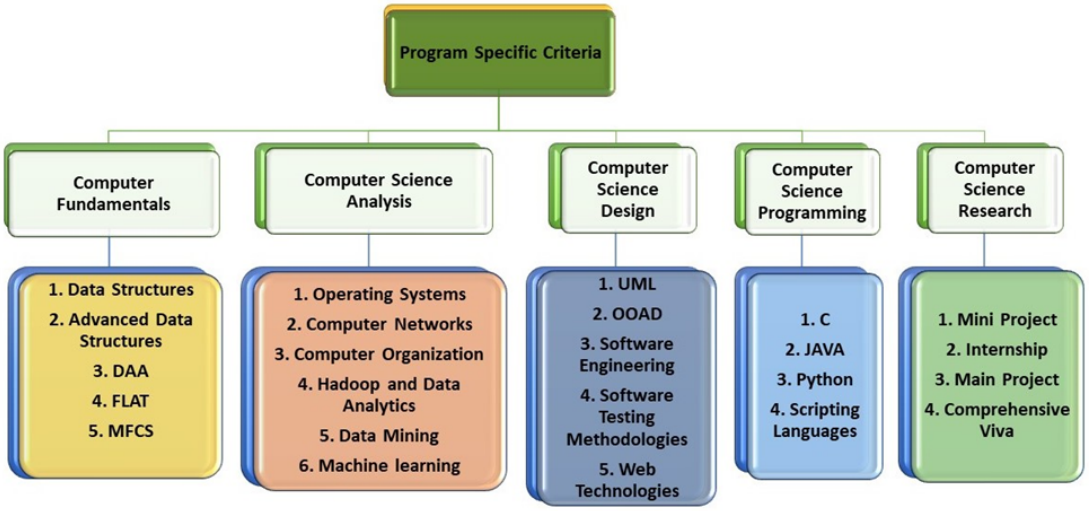
B. Research Publications:

Faculties interested in specific domains of research for publishing their ideas.

Table 5.2: Research Interest

Sl.No	ResearchDomain	FacultyNames	No. of Publications
1	Networks& Security	1. Dr.Pathan Hussain Basha 2. Dr. R. Veeranjaneyulu 3. Dr. M.Sreenivasulu 4. Dr. P.Prabakaran 5. Dr. U. Naresh 6. S.GiriBabu 7. SK.HeenaKauser 8. V.G.S Abhishikth 9. G. Radhika Deepthi 10. S. Pavani 11. Ch.Mastan 12. D .Anandam 13. K .Kalpana 14. Dr.S. Raj Anand	16
2	Big Data & DataMining	1. Dr. A. Seshagiri Rao 2. Dr. G.Samba Siva Rao 3. Dr.T.Sreenivasulu 4. K. Raja Kiran 5. R. Pavan Kumar 6. T. Kishore Babu 7. D. Janardhana Reddy 8. K. Suresh Babu 9. S .Phani Kumar 10. B .Srinivasulu 11. B. Thirumala Rao	12
3	Cloud Computing/Distributed Computing	1. DrJagadish Kumar Kb 2. P.V. Subba Reddy 3. G. Hanumantha Rao 4. B.V.S Mounika 5. SK.Sabeena 6. A. Mounika 7. Sk. Sumi Anju 8. D. Jagadeesh 9. M .Kranthi 10. A .Amruthavalli 11. Ch. Sandhya Rani	04
4	Artificial Intelligence &Machine Learning	1. Dr. Suresh Dara 2. Dr. K.G.S Venkatesan 3. Dr. K. Venkataramana 4. Dr.M. Srinivasa Rao 5. V.Sri Harsha 6. V.Gopi Krishna 7. CH. RavindraBabu 8. SK. JilaniBasha 9. N. Murali Krishna 10. P. Ramalingamma 11. G. Nagarjuna 12. B.Rajeswari 13. M. Chaitanya Bharathi 14. Mohammed Shabana 15. E .V.Nagajyothi	18

5	IOT & Deep Learning	1. Dr T.R Chaitanya 2. Dr. Nedunchezhian 3. DrNagarjuna E 4. N. Srinivasa Rao 5. B. Sravani 6. M. Chiranjeevi 7. P. Karthik 8. R. Devi Uma 9. K. Samshad Begum 10. B. Karthik 11. K. Siva Krishana 12. Sk. JahangeerBasha 13. B .Raja Kumari 14. Dr. S. Radhakrishnan 15. D. Narayana	10



C) Course Development:

Table 5.3: R18 Regulations Course Development

S No	Year /Sem	Name of the Course	Name of the Coordinator	Supporting Faculty
1	I - I	C-Programming For Problem Solving	Dr R Veeranjaneyulu	R Pavan Kumar V Suresh
2		C-Programming For Problem Solving Lab	Dr G Samba Siva Rao	Dr R Veeranjaneyulu A. Mounika
3	I - II	Python Programming	Dr M Srinivasa Rao	SK Jilani Basha S Phani Kumar
4		Python Programming Lab	Dr K G S Venkatesan	Dr M Srinivasa Rao SK Jilani Basha
5	II - I	Data Structures	Dr M Srinivasulu	CH Mastan B. Srinivasulu
6		Data Structures Lab	CH Mastan	M Chiranjeevi B Srinivasulu
7		Java Programming	Dr K Venkataramana	SK Jahangeer Basha K Pushpa
8		Java Programming Lab	K Suresh Babu	G Hanumantha Rao R Devi Uma
9		Free Open Source Software	M Chaitanya Bharati	SK Sabeena G Radhika Deepthi
10	II - II	Database Management Systems	Dr K Venkataramana	SK Jahangeer Basha B Raja Kumari
11		Database Management Systems Lab	SK Jahangeer Basha	M Kranthi K Pushpa
12		Computer Organization	Dr T R Chaitanya	SK Heena Kauser G Radhika Deepthi
13		Software Engineering	Dr A Seshagiri Rao	B Sravani K Siva Krishna
14		Formal Languages & Automata Theory	Dr U Naresh	CH Mastan N Murali Krishna
15		Linux Programming Lab	Dr T Sreenivasulu	M Chiranjeevi SK Sumi Anju
16	III - I	Computer Networks	Dr G Samba Siva Rao	V G S Abhishikth SK Shamshad Begum
17		Computer Networks & Operating Systems Lab	V Gopi Krishna	S Giri Babu R Pavan Kumar
18		Operating Systems	Dr T R Chaitanya	V Gopi Krishna SK Heena Kauser
19		Artificial Intelligence & Machine Learning	Dr Suresh Dara	Dr Pathan Hussain Basha Dr M Sreenivasulu
20		Artificial Intelligence & Machine Learning Lab	Dr Pathan Hussain Basha	R Devi Uma K Pushpa
21		Data Warehousing & Data Mining	Dr U Naresh	R Pavan Kumar N Srinivasa Rao

22	III -II	Hadoop& Big Data	Dr G Samba Siva Rao	V Gopi Krishna SK Sumi Anju
23		Hadoop & Big Data Lab	V Gopi Krishna	G Nagarjuna SK Sumi Anju
24		Web Technologies	Dr Suresh Dara	T Kishore Babu G Hanumantha Rao
25		Web Technologies Lab	T Kishore Babu	B Rajeswari G Hanumantha Rao
26		Design & Analysis Of Algorithms	Dr Pathan Hussain Basha	CH Ravindra Babu N Srinivasa Rao
27		Distributed Systems	Dr M Sreenivasulu	P Rama Lingamma P Kartheek
28		Cryptography & Network Security	Dr T R Chaitanya	S Giri Babu D Janardhana Reddy
29	IV - I	Software Testing Methodologies	Dr Jagadesh Kumar K B	P Rama Lingamma B Sravani
30		Wireless Networks & Mobile Computing	Dr T Sreenivasulu	S Giri Babu D Jagadeesh
31		Cloud Computing	P V Subba Reddy	A Mounika SK Sumi Anju
32		OOAD With UML	Dr R Veeranjaneyulu	D Janardhana Reddy P Karthik
33		OOAD With UML Lab	D Janardhana Reddy	B Sravani A Mounika
34		Web Development Using Mean Stack	Dr Nagarjuna E	T Kishore Babu M Chiranjeevi
35		Mean Stack Lab	T Kishore Babu	R Uma Devi B Karthik
36	IV -II	Internet Of Things	Dr Nagarjuna E	Dr T R Chaitanya S Pavani
37		Human Computer Interaction	Dr A Seshgiri Rao	Dr K Venkata Ramana M Chaitanya Bharati

Table 5.4: R21 Regulations Course Development

S No	Year /Sem	Name of the Course	Name of the Coordinator	Supporting Faculty
1	I - I	C-Programming For Problem Solving	Dr R Veeranjaneyulu	G Nagarjuna SK Sabeena
2		C-Programming For Problem Solving Lab	Dr G Samba Siva Rao	P Kartheek Dr R Veeranjaneyulu
3		Computer Engineering Workshop	M Chaitanya Bharati	A Mounika B V S Mounika
4	I - II	Python Programming	Dr K G S Venkatesan	K Suresh Babu S Pavani
5		Python Programming Lab	SK Sabeena	SK Jilani Basha G Radhika Deepthi
6		Data Structures	Dr M Sreenivasulu	P Kartheek M Chiranjeevi
7		Data Structures Lab	Dr Nagarjuna E	M Chiranjeevi B Sravani
8	II - I	Java Programming	Dr Nedunchezhian	V Sri Harsha N Murali Krishan
9		Java Programming Lab	V Sri Harsha	CH Ravindra Babu P V Subba Reddy
10		Computer Organization	Dr K G S Venkatesan	SK Heena Kauser G Nagarjuna
11		Software Engineering	Dr A Seshgiri Rao	Dr K Venkata Ramana B Rajeswari
12		Front end Web Technologies	Dr P Prabhakaran	SK Jilani Basha K Raja Kiran
13		Front end Web Technologies Lab	SK Jilani Basha	B V Sai Mounika N Srinivasa Rao
14		Free Open Source Software	B Sravani	M Chiranjeevi SK Sumi Anju
15		Source code Management using Git & Github	B Rajeswari	P Rama Lingamma G Nagarjuna
16	II - II	Advanced Python Programming	Dr K G S Venkatesan	V Sri Harsha K Raja Kiran
17		Advanced Python Programming Lab	V Sri Harsha	R Pavan Kumar A Mounika
18		Data Base Management Syatems	Dr P Prabhakaran	SK Heena Kauser B Rajeswari
19		Data Base Management Syatems Lab	SK Heena Kauser	B Rajeswari N Murali Krishna
20		Design and Analysis of Algorithms	Dr Nedunchezhian	Dr Pathan Hussain Basha N Srinivasa Rao
21		Data Science Using Python Lab	SK Jilani Basha	CH Ravindra Babu M Chiranjeevi
22		R Programming Lab	P V Subba Reddy	V G S Abhishikth D Janardhana Reddy

D) **Others**

Table 5.5: Ph. D Awarded during the assessment period while working in the institute

S.NO	NAME	REG. NUMBER	YEAR OF COMPLETION	UNIVERSITY	TOPIC
1	G SRINIVASA RAO	13PH0505	2020	Jawaharlal Nehru Technological University, Anantapuram	A frame work for handwritten character recognition for Telugu script.
2	M SRINIVASA RAO	CS15D004	2020	Dr. M.G.R. Educational and Research Institute	An improved distributed framework for data visualization and analysis of high dimensional data
3	E V N JYOTHI	29117016	2020	Shri JJT University, Vidyanagari	Dynamic time based encryption dtbe and searchable access control scheme for personal health record in cloud computing
4	MOHAMAD SHABAHA	251216076	2021	Shri. JJT University Vidyanagari	Virtualization Technology In Cloud Big Data

Table 5.6: Ph. D Pursuing during the assessment period while working in the institute

S.NO	NAME	YEAR OF REGISTRATION	UNIVERSITY
1	S GIRI BABU	2018	ANNAMALAI UNIVERSITY
2	SK HEENA KOUSHER	2018	ANNAMALAI UNIVERSITY
3	V GOPI KRISHNA	2020	SAVEETHA UNIVERSITY, CHENNAI
4	CH RAVEENDHRA BABU	2018	ANNAMALAI UNIVERSITY
5	N SRINIVASA RAO	2019	SAVEETHA UNIVERSITY, CHENNAI
6	V SRI HARSHA	2018	ANNAMALAI UNIVERSITY

5.6 Innovations by the Faculty in Teaching and Learning (10) Total Marks 10.00

Institute Marks : 10.00

In the Department of Computer Science and Engineering, much importance is given for incorporating innovative techniques in teaching. During the beginning of every semester, a refresher program is conducted to share the innovative practices followed by other faculties pertaining to a new/enriched course offered in the semester.

Such brainstorming sessions help transfer the best practices amongst faculties in the department. Pedagogies, Innovative Assessments, Assignments, Content beyond the Syllabus are typically discussed in the sessions. A snip of one of the meetings conducted for one of the courses “Problem Solving using Computer Programming” is depicted in fig. Faculty members use the LCD Projectors for their presentations. The faculty members use these aids to take the teaching learning process to the next level. Lectures are presented by faculty members using a variety of teaching tools such as chalk and board, PowerPoint presentation, video lectures, models, charts, animation, and other teaching techniques such as lecture, group discussion, seminar, tutorials, guest lectures, and demonstration. Apart from this, the following are the various innovative practices followed at CSE department to enhance Teaching.

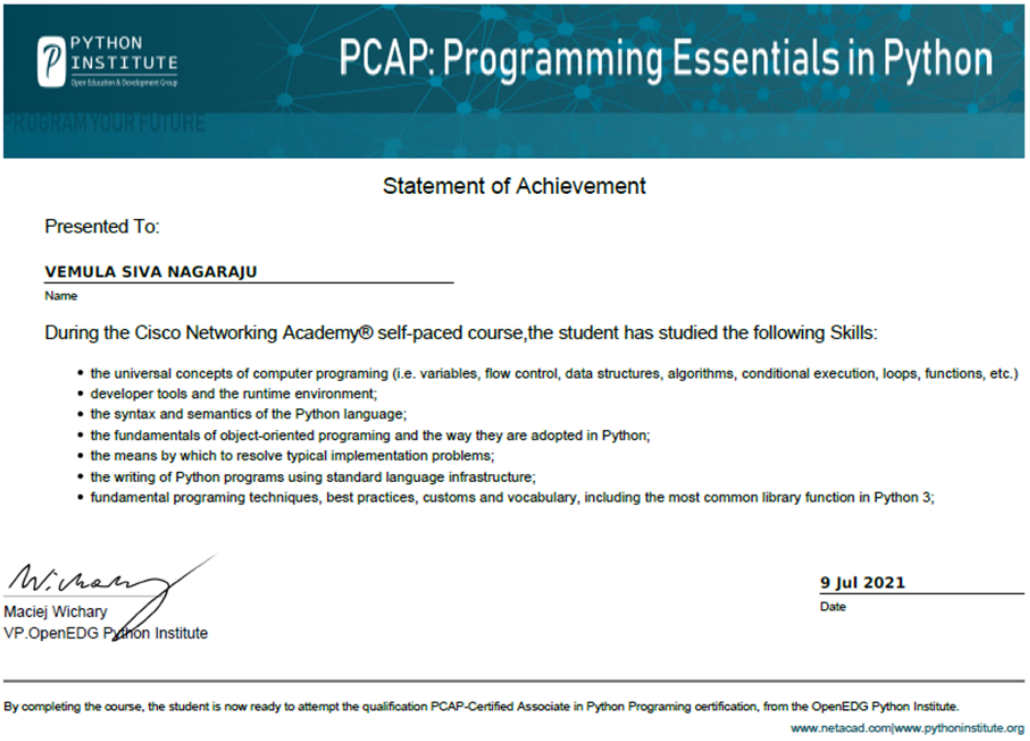
1. Virtual lab & Skill Development

The Powerful forces of the economic growth and development of country are Skill and Knowledge. Skill development is a crucial requirement for any economy to stay globally competitive and provide a good quality of life to its residents. However, despite the understanding that skill development is necessary for the sustenance and growth of any country, there is a considerable lack of quality training and resources in India to develop the skills of its workforce.

In fast growing economies with a huge and increasing population, there is a severe shortage of highly-trained, quality skilled resources, while on the other; large sections of the population possess little or no job skills. We need to produce dynamic and enterprising youngsters for facing technical challenges using Skill Development Training. So the industry is ready to recruit only skilled candidates who can contribute immediately to the well being of the company.

Student Can Enhance Using

- Virtual Labs (http://vlab.co.in/) (http://vlab.co.in/)
- NPTEL (https://nptel.ac.in/) (https://nptel.ac.in/)
- SWAYAM (https://swayam.gov.in/) (https://swayam.gov.in/)
- Cisco Network Acedamy



PYTHON INSTITUTE
Open Education & Development Group
PROGRAM YOUR FUTURE

PCAP: Programming Essentials in Python

Statement of Achievement

Presented To:

VEMULA SIVA NAGARAJU
Name

During the Cisco Networking Academy® self-paced course,the student has studied the following Skills:

- the universal concepts of computer programing (i.e. variables, flow control, data structures, algorithms, conditional execution, loops, functions, etc.)
- developer tools and the runtime environment;
- the syntax and semantics of the Python language;
- the fundamentals of object-oriented programing and the way they are adopted in Python;
- the means by which to resolve typical implementation problems;
- the writing of Python programs using standard language infrastructure;
- fundamental programing techniques, best practices, customs and vocabulary, including the most common library function in Python 3;

Maciej Wichary
VP.OpenEDG Python Institute

9 Jul 2021
Date

By completing the course, the student is now ready to attempt the qualification PCAP-Certified Associate in Python Programing certification, from the OpenEDG Python Institute.

www.netacad.com|www.pythoninstitute.org

Fig. 5.2: Student Achievement

2. Think-Pair-Share

A collaborative learning strategy is used where students work together to solve a problem or answer a question about an assigned task for a specific topic from the course. Various groups are created in the class and each group forms a specific set of questions based on concepts covered in the class sessions. Each group then solves the questions formed by other groups. This tests the understanding of concepts by the students as for forming questions thorough understanding of concepts is required.

3. Flipped Learning

Flipped Learning aims to increase student engagement and learning by having students complete the necessary readings at home and work on live problem-solving during class time. With a flipped classroom, students watch online lectures, collaborate in online discussions, or carry out research at home, while actively engaging concepts in the classroom, with the course teacher’s guidance.

Fig. 5.3 : Flipped Learning

The above figure is an example screenshot of implementation of the flipped learning strategy. The videos from reputed online sites or own recordings will be shared to the students through the Google Classroom/ Drive/ other common communication mediums.

5.7 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		
	2021-22(CAYm1)	2020-21(CAYm2)	2019-20(CAYm3)
Dr. G.Samba Siva Rao	5.00	5.00	5.00
Dr. K.G.S Venkatesan	5.00	5.00	5.00
Dr. P.Prabakaran	5.00	5.00	5.00
Dr. Nedunchezhian	5.00	5.00	5.00
Dr. R. Veeranjaneyulu	5.00	5.00	5.00
Dr T.R Chaitanya	5.00	5.00	5.00
Dr M.Srinivasulu	5.00	5.00	5.00
Dr.Pathan Hussain Basha	5.00	5.00	0.00
Dr. A. Seshagiri Rao	5.00	5.00	0.00
Dr. K.Venkataramana	5.00	5.00	5.00
Dr Nagarjuna E	5.00	5.00	0.00
Dr Jagadish Kumar KB	5.00	5.00	0.00
Dr.T.Sreenivasulu	5.00	5.00	0.00
Dr. U. Naresh	5.00	5.00	0.00
Dr.M. Srinivasa Rao	5.00	5.00	5.00
S.Giri Babu	5.00	5.00	5.00
V.Sri Harsha	5.00	5.00	5.00
SK.Heena Kauser	5.00	5.00	5.00
SK.Jilani Basha	5.00	5.00	5.00
Ch.Mastan	5.00	0.00	0.00
V.Gopi Krishna	5.00	5.00	5.00
R.Pavan Kumar	5.00	5.00	0.00
T.Kishore Babu	5.00	5.00	0.00
D.Janardhan Reddy	5.00	5.00	5.00
CH.Ravindra Babu	5.00	5.00	5.00
P.V Subba Reddy	5.00	5.00	5.00
N Murali Krishna	5.00	5.00	0.00
N.Srinivasa Rao	5.00	5.00	0.00
K.Raja Kiran	5.00	5.00	0.00
M.Chiranjeevi	5.00	0.00	0.00
SK.Sumi Anju	5.00	0.00	0.00
P Ramalingamma	5.00	5.00	0.00
G Nagarjuna	5.00	5.00	0.00
G.Hanumantha Rao	5.00	0.00	0.00
K. Siva Krishana	5.00	5.00	0.00
Sk. Jahangeer Basha	5.00	5.00	0.00
S.Phani Kumar	5.00	5.00	5.00
B.Raja Kumari	5.00	5.00	0.00
G.Radhika Depthi	5.00	0.00	0.00
V.G.S. Abhishikth	5.00	0.00	0.00

K.Suresh Babu	0.00	5.00	0.00
D.Jagadeesh	0.00	5.00	0.00
B.Karthik	5.00	0.00	0.00
K.Pushpa	5.00	0.00	0.00
R.Devi Uma	5.00	0.00	0.00
M.Chaithanya Bharathi	5.00	0.00	0.00
Sk.Sabeena	5.00	5.00	5.00
B Sravani	5.00	5.00	5.00
Mohammed Shabana	5.00	5.00	0.00
D.Anandam	5.00	5.00	0.00
M.Kranthi	0.00	5.00	0.00
B.Srinivasulu	5.00	5.00	5.00
K.Kalpana	5.00	0.00	0.00
A.Amruthavalli	5.00	5.00	0.00
Dr.S. Raj Anand	0.00	5.00	5.00
Dr. S. Radhakrishnan	0.00	5.00	5.00
E.V.Nagajyothi	0.00	5.00	5.00
G.Srinivasarao	0.00	5.00	5.00
P.Lokaiah	0.00	5.00	5.00
A.Ramya Krishna	0.00	5.00	5.00
B. Thirumala Rao	0.00	0.00	5.00
D. Narayana	0.00	0.00	5.00
V. Suresh	0.00	0.00	5.00
Ch. Sandhya Rani	0.00	0.00	5.00
Sum	255.00	245.00	155.00
RF = Number of Faculty required to comply with 20:1 Student Faculty Ratioas per 5.1	31.00	31.00	27.00
Assessment [3*(Sum / 0.5RF)]	49.35	47.42	34.44

Average assessment over 3 years: 15.00

5.8 Research and Development (75) Total Marks 55.00

5.8.1 Academic Research (20) Institute Marks : 20.00

5.8. Research and Development

- Faculty members are actively participating in Research and Development activities.
- **15** Faculty members of the department are holding PhD.
- 4 Faculty members of the department are pursed during the assessment period.
- 6 Faculty members of the department are pursuing PhD.

Academic Research

- Department faculty members have journal publication in their specialization faculty members also encourage the students to participate in National and International conference and also to publish paper in National and International Journals.

A. The counts and the lists of papers published by the faculty members in the past three years are given as follow.

Table 5.7 : Publication Details

INTERNATIONAL JOURNALS			
Academic Year	Publications count	Book Chapter	TOTAL
2020-2021	16	1	17
2021-2022	10	6	16
2022-2023	28	0	28
TOTAL	54	7	61

B. I) Ph. D Awarded during the assessment period while working in the institute

S.NO	NAME	REG. NUMBER	YEAR OF COMPLETION	UNIVERSITY	TOPIC
1	G SRINIVASA RAO	13PH0505	2021	Jawaharlal Nehru Technological University, Anantapuram	A frame work for handwritten character recognition for Telugu script.
2	M SRINIVASA RAO	CS15D004	2020	Dr. M.G.R. Educational and Research Institute	An improved distributed framework for data visualization and analysis of high dimensional data
3	E V N JYOTHI	29117016	2020	Shri JJT University, Vidyanagari	Dynamic time based encryption dtbe and searchable access control scheme for personal health record in cloud computing
4	MOHAMAD SHABAHA	251216076	2021	Shri. JJT University Vidyanagari	Virtualization Technology In Cloud Big Data

II) Ph. D Perusing faculty during the assessment period while working in the institute

S.NO	NAME	YEAR OF REGISTRATION	UNIVERSITY
1	S GIRI BABU	2018	ANNAMALAI UNIVERSITY
2	SK HEENA KAUSER	2019	SATHYABAMA UNIVERSITY
3	V GOPI KRISHNA	2020	SAVEETHA UNIVERSITY, CHENNAI
4	CH RAVEENDHRA	2018	ANNAMALAI UNIVERSITY
5	N SRINIVASA RAO	2019	SAVEETHA UNIVERSITY, CHENNAI
6	V SRI HARSHA	2018	ANNAMALAI UNIVERSITY

5.8.2 Sponsored Research (20) Institute Marks : 0.00

2021-22 (CAYm1)

Project Title	Duration	Funding Agency	Amount(in Rupees)
0	0	0	0.00
			Total Amount(X): 0.00

2020-21 (CAYm2)

Project Title	Duration	Funding Agency	Amount(in Rupees)
0	0	0	0.00
			Total Amount(Y): 0.00

2019-20 (CAYm3)

Project Title	Duration	Funding Agency	Amount(in Rupees)
0	0	0	0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 0.00

5.8.3 Development activities (15) Institute Marks : 15.00

A) Product Development

Primary Contributing Department	Name of Authors	Date of filing	Date of Publication	Title	Application Number	Agency name
CSE	1. Pace Institute of Technology and Sciences 2. Dr.T.R. Chaitanya 3. D. Janardhan Reddy 4. K. Venkatesh 5. M. Raja Kumar 6. Dr. P. Hussain Basha	16/12/2022	15-02-2023	IOT ENABLED HEALTH MONITORING DEVICE	375745-001	Intellectual Property INDIA
CSE	1. Pace Institute of Technology & Sciences 2. Dr. M. Rajasekhar 3. K. Sowjan Kumar 4. S. Giribabu 5. C.H. Manasa 6. M. Chaitanya Bharathi	05/01/2023	UNDER PROCESS	PERSONAL CARE ROBOT	376789-001	Intellectual Property INDIA
CSE	1. Pace Institute of Technology & Sciences 2. Dr. G. Erna 3. Dr. T.R. Chaitanya 4. C.H. Mastan 5. Dr. M. Venkateswara Rao 6. G. Nagarjuna	05/01/2023	UNDER PROCESS	MANUFACTURING INDUSTRY COBOTS	376790-001	Intellectual Property INDIA
CSE	1. Pace Institute of Technology & Sciences 2. S.K. Heena Kauser 3. Dr. M. Venkateswara Rao 4. T. Kishore Babu 5. V. Nagarjuna 6. Dr. T.V. Sai Krishna	05/01/2023	09-03-2023	SMART PLANT HEALTH MONITORING DEVICE	376791-001	Intellectual Property INDIA
CSE	1. Pace Institute of Technology & Sciences 2. S. Giribabu, 3. Dr. D. Anil Kumar 4. D.K. Kavitha 5. B.Vijay Chandra 6. V. Gopi Krishna	05/01/2023	UNDER PROCESS	SMART HEALTH MONITORING JACKET FOR SECURITY FROCE	376792-001	Intellectual Property INDIA
CSE	1. Pace Institute of Technology & Sciences 2. Dr. Siva Ram Prasad.K 3. N. Durga Parameswara Rao 4. P. Mastanamma 5. R. Pavan Kumar 6. N. Raghunadh	05/01/2023	UNDER PROCESS	RESCUE ROBOT	376809-001	Intellectual Property INDIA
CSE	1. Pace Institute of Technology & Sciences 2. Dr. A. Seshagiri Rao 3. S.C.H. Kantha Rao 4. K. Jeevana 5. V.G. Abishikth 6. Dr. M. Rajasekhar	05/01/2023	09-03-2023	AGRICULTURAL ROBOT	376810-001	Intellectual Property INDIA
CSE	1. Pace Institute of Technology & Sciences 2. V. Sriharsha 3. K.V. Narayana 4. C.H. Ravindra Babu 5. B. Sravani 6. M. Balasubrahmanyam	05/01/2023	UNDER PROCESS	TELECOM TOWER CLIMBING ROBOT	376811-001	Intellectual Property INDIA

CSE	1. Pace Institute of Technology & Sciences 2. Dr. R. Veeranjanelu 3. M. Sivudu 4. R. Koteswara Rao 5. S. K. Heena Kauser 6. K. Sowjan Kumar	05/01/2023	02-03-2023	SOLAR PANEL CLEANING ROBOT	376812-001	Intellectual Property INDIA
CSE	1. Pace Institute of Technology and Sciences 2. B. Nagaraju 3. S.K. Heena Kauser 4. K.Venkateswarlu 5. S. Aruna Sri 6. A. Mounika	16/12/2022	UNDER PROCESS	COMPUTER MONITOR SCREEN PROTECTION	375744-001	Intellectual Property INDIA
CSE	1. Pace Institute of Technology and Sciences 2. Dr. S.K. Subhani 3. Dr. G.V.K. Murthy 4. I. Meghana 5. K.V. Siva Reddy 6. Dr. R. Veeranjanelu	16/12/2022	UNDER PROCESS	AUTOMATIC PATH FINDING ROBOT	375743-001	Intellectual Property INDIA
CSE	1. Pace Institute of Technology and Sciences 2. Dr. D. Anil Kumar 3. N. Murali Krishna 4. B. Subbarao 5. K. Naresh 6. Dr. Siva Ram Prasad. K	16/12/2022	UNDER PROCESS	ARTIFICAIL INTELKEGENCE BASED HUMANOID ROBOT	375742-001	Intellectual Property INDIA
CSE	1. Pace Institute of Technology and Sciences. 2. Dr. P. Hussain Basha 3. K. Manohara Rao 4. Dr. T.R. Chaitanya 5. K. Nagaraju 6. B. Suresh Kumar	16/12/2022	25/01/2023	STAND FOR MONITOR	375746-001	Intellectual Property INDIA
CSE	1 . Mohd Zeeshan Ansari 2 . Dr. Vaddi Ramesh 3 . D. Venkata Siva Reddy 4 . Dr. B. Aysha Banu 5 . C. Jeyalakshmi 6 . Dr.G Ravi Kumar 7 . Shaik Saidulu 8 . Mulaka Madhava Reddy 9 . Paritala Jhansi Rani 10 . Dr. Sharmila Kumari 11 . Dr. Monika Verma	06/06/2021	6/18/2021	THE SMART LOCKING SYSTEM FOR VEHICLES USING IOT AND CLOUD TECHNIQUE.	202111025105 A	Intellectual Property INDIA
CSE	1. DVNA SaiYaswanth, 2. S. Raj Anand, 3. M. Sreenivasan	2/1/2020	17/01/2020	High Performance of Wireless Connectivity	202041000123	Intellectual Property INDIA
CSE	1. M. Siva Tejaswi 2. S Raj Anand, 3. M. Sreenivasan, 4. R. Krishna, 5. Manoj Kumar, 6. Rachana Reddy, 7. S.MohammedJubear	2/1/2020	10/1/2020	Efficient Utilization of Vehicle Jammer on the Road	202041000124	Intellectual Property INDIA
CSE	1. Shaik Sajid, 2. TR Chaithanya, 3. M. Sreenivasan, 4. R. Krishna, 5. S. Raj Anand	8/1/2020	10/1/2020	Laptop Lock	202041000837	Intellectual Property INDIA
CSE	1. S Raj Anand, 2. Shaik Sajid, 3. T.R.Chaithanya, 4. M. Sreenivasan, 5. R. Krishna	23/01/2020	7/2/2020	Smart City Surveillance	202041003103	Intellectual Property INDIA

CSE	1. S.Radhakrishnan, 2. G.Venkateswarlu, 3. G. Vamsi, 4. S. Raj Anand, 5. M. Sreenivasan, 6. R. Krishna	3/2/2020	14/02/2020	An IoT based intelligent dust bin	202041004695	Intellectual Property INDIA
CSE	1. S.Radhakrishnan, 2. N. Bhargavi, 3. N. Priyanka, 4. D. Rahamabdi, 5. EVN Jyothi, 6. M. Sreenevasan, 7. R. Krishna	14/03/2020	20/03/2020	Voice based tv remote control using IOT for low vision persons	202041010991	Intellectual Property INDIA

B) RESEARCH LABORATORY

Infrastructure facilities at R & D Laboratory:

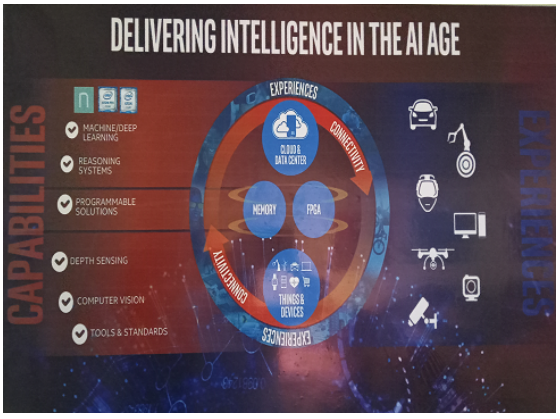
S.NO	NAME OF THE EQUIPMENT	QTY	LAB IN CHARGE
1	**LAPTOPS** Configuration: Processor: Intel i5 RAM: 16GB HDD: 500G	34	Dr. Pathan Hussain Basha
2	Projector	1	
3	LAN Switches	1	
4	Projector	1	
5	Wi-Fi (Special Wi-Fi zone has been created to cater for the LAN facility)		
6	Windows 10, dev C, Turbo C++, Java SE Development Kit, Java Wireless toolkit, Microsoft Office, Rational rose, Hadoop, pig, hive, eclipse, Oracle 10g, MySQL, Apache Tomcat, Putty, Texmaker4.5, Android SDK, Miktex 3.0, Other Open Sources		
7	Printer,.	1	
8	Audio system,	1	

c) Instructional Materials:

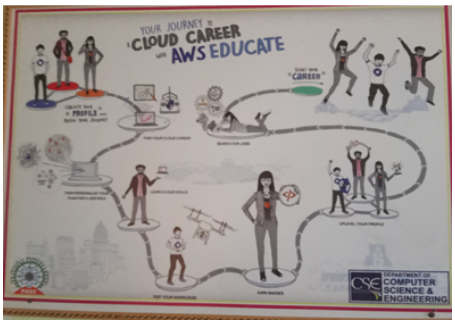
- Question Banks comprising of indicative set of questions are given to students in all theory courses as mandatory practice
- Course Files
- Lab Manual of lab courses

d) Working Models/Charts/Monograms

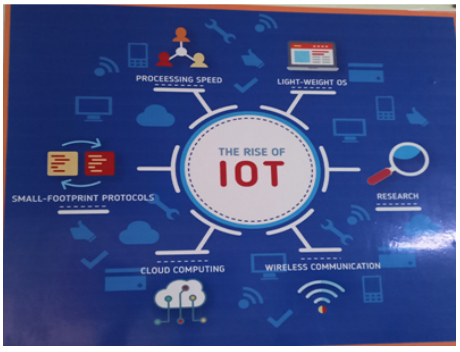
1. Delivering Intelligence In The AI Age



2. Cloud Career With AWS Educate

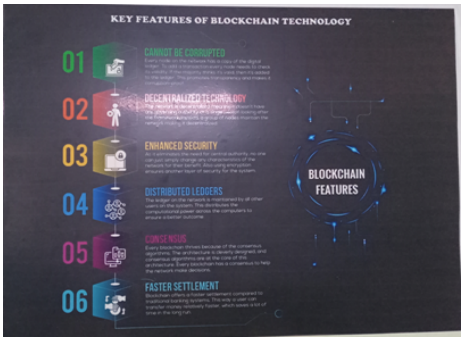


3. IOT

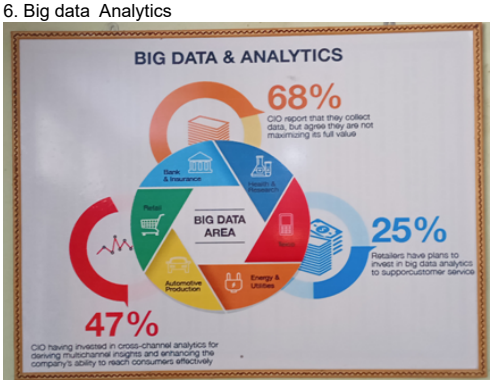


4. Augmented Reality Can Revolutionize Disaster Management

5. Block Chain Technology And Key Features



6. Big data Analytics



5.8.4 Consultancy (from Industry) (20)

Institute Marks : 20.00

2021-22 (CAYm1)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Development a	Ongoing	TECHBOZ SO	410000.00
Conducting Val	Through out ye	San Prints Pvt.	1854970.00
			Total Amount(X): 2264970.00

2020-21 (CAYm2)

Project Title	Duration	Funding Agency	Amount(in Rupees)
Conducting Val	Through out ye	San Prints Pvt.	381326.00
			Total Amount(Y): 381326.00

2019-20 (CAYm3)

Project Title	Duration	Funding Agency	Amount(in Rupees)
0	0	0	0.00
			Total Amount(Z): 0.00

Cumulative Amount(X + Y + Z) = 2646296.00

5.9 Faculty Performance Appraisal and Development System (FPADS) (10) Total Marks 10.00

Institute Marks : 10.00

The institute has a thorough and well-defined mechanism for evaluating teacher performance and professional growth. The self-appraisal form is only collected once a year at the end of the academic year, after which the department head analyzes and passes it on to the principal. The management forms an expert panel to assess the effectiveness of the faculty and offer recommendations for future development.

All the criteria are given points, and each faculty is assessed according to the points they have earned. They should meet the basic standards for all relevant heads, including teaching, research and consultancy, rewards and recognitions, departmental activities, and campus administrative activities.

List of contents consider for evaluation are listed below

I. Academic and Career Profile

II. Contribution to Teaching and Learning

1. Academic Contributions
2. Use of participatory and innovative Teaching-Learning methodologies/ICT facilities used; updating of subject content, course improvement etc.
3. Content beyond syllabus covered for the Subject/Laboratory taught during the assessment period.
4. Percentage of student pass and feedback in the subjects/Laboratory taught during the assessment period.
5. UG/PG projects guided during assessment period
6. Research and academic contribution during the assessment period includes
7. Refresher courses, STTP, Orientation courses, Teaching & Learning evolution programs, soft skills development programs, FDPs attended.
8. Professional development activities organized such as FDP's, Seminars, Conferences and STTP's etc.
9. Contribution to the development of Department/Institution through participation in academic and administrative comities and responsibilities.
10. Contribution to the Academics and Examinations (Question papers setting, evolution of answer scripts, invigilation and observer duty) during the assessment period.
11. Membership on professional bodies.
12. Any other contribution during the assessment period.

5.10 Visiting/Adjunct/Emeritus Faculty etc. (10) Total Marks 10.00

Institute Marks : 10.00

Experts from various industries have been utilized to impart a good blend of theoretical and practical input to the students on latest technology used in Industries. This has helped students in securing placements in core companies. Details of Adjunct faculty members from various industries are listed below.

S. No	Name of The Visiting/Adjunct/Emeritus Faculty	Designation	Company/ Institution
1	Palvinder Singh	Security Analyst	Secuneus Tech Pvt. Ltd.
2	Harnam Singh	Cyber Security Analyst	Secuneus Tech Pvt. Ltd.
3	M Chakravarthi	Delivery Manager	Dharani info Technology

S. NO	NAME OF THE FACULTY	HOURS TAKEN		
		2020-2021	2021-22	2022-23
1	Meduri Chakravarthi	29+31= 60	33	28
2	Palvinder Singh	-	30	-
3	Harnam Singh	-	-	32
	Total	**60**	**63**	**60**

S. NO	NAME OF THE FACULTY	HOURS TAKEN	MODULE	SUBJECT NAME & CODE	YEAR & SEM	ACADEMIC YEAR
1	Meduri Chakravarthi	29	Trees & Graphs	Data Structures - P18CST02	II Year I Sem	2020-21
2	Meduri Chakravarthi	31	Testing Concepts	Software Engineering - P18CST07	II Year II Sem	2020-21
3	Meduri Chakravarthi	33	Scripting Language Node.js	Web Development using MEAN Stack- P18CST14	IV Year I Sem	2021-22
4	Palvinder Singh	30	Cyber Security	Cyber Security - P18CSE24	IV Year II Sem	2021-22
5	Meduri Chakravarthi	28	Scripting Language Node.js	Web Development using MEAN Stack- P18CST14	IV Year I Sem	2022-23
6	Harnam Singh	32	Cyber Security	Cyber Security - P18CSE24	IV Year II Sem	2022-23

6 FACILITIES AND TECHNICAL SUPPORT (80)

Total Marks 80.00

6.1 Adequate and well equipped laboratories, and technical manpower (40)

Total Marks 40.00

Institute Marks : 40.00

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	Lab 1 (MB 201	72	Hardware: Des	(Odd Semeste	E.Srihari	Programmer	MCA
2	Lab 2 (MB 214	72	Hardware: Des	(Odd Semeste	D.Annapoorna	Programmer	B.Tech
3	Lab 3 (MB 322	72	Hardware: Des	Object Oriente	B.Madhavi	Programmer	B.Tech
4	Project Lab (MI	72	Hardware: Lap	PROJECT WO	SD RuhiFardib	Programmer	B.Tech
5	R &D Lab (MB	32	Hardware: Des	RESEARCH W	M.Sateesh	Programmer	B.Tech

6.2 Laboratories maintenance and overall ambiance (10)

Total Marks 10.00

Institute Marks : 10.00

Maintenance of Laboratory Equipment

1. Regular check-up of equipment is carried out at the end of every semester.
2. Breakdown register is maintained in the laboratories.
3. As per the requirement minor repairs are carried out by the lab technical staff.
4. Major repairs are outsourced by following the procedure of the institute.

Overall Ambience

1. Department has enough labs which are used for all the years on timetable basis to meet the curriculum requirements.
2. The courses which have practical work will be provided labs every week.
3. Conditions of chairs/benches are in good condition. Chairs are provided for individual students in Labs.
4. Labs are equipped with sufficient hardware and licensed software to run program specific curriculum and off program curriculum.
5. Sufficient laboratory manual are distributed to students.
6. Sufficient number of windows is available for ventilation and natural light.
7. Lighting system is very effective, along with the natural light in every corner of the rooms.
8. Emergency power source connections available in Lab in case of power failure.
9. Iron Racks are available in each lab for students to place their belongings.
10. Each Lab is equipped with White board, computer, Internet, and such other amenities.

Table 6.2.1:Technical Staff Details for Laboratory Maintenance:

S.No	Lab Name	Staff Name	Designation
1	Lab 1(MB 201)	M.Kumar	System adnin
2	Lab 2(MB 214)	CH.Bhavani shanker	System adnin
3	Lab 3 (MB 322)	CH.Bhavani shanker	System adnin
4	Project Lab(MB 312)	B.Sathish kumar	System adnin
5	R & D Lab(MB 202)	B.Kishore	System adnin

Table 6.2.2: Physical Laboratory Maintenance Details:

S.No	Name of the Physical Lab	Area in Sq. m	Maintenance Periodicity	Ambiance
1	 (Odd Semester) • Java Programming Lab • Free Open-Source Software Lab • Front End Web Technologies Lab • Source Code Management Using Git & GitHub Lab (Even Semester) • Advanced Python Programming Lab • R Programming Lab • Database Management System Lab • Data Science Using Python Lab (MB 201)	133	Weekly	• Good ventilation with windows • Good lighting • College & Department vision and mission board • Scientist photos • Charts

2	 (Odd Semester) • Artificial Intelligence & Machine Learning Lab • Computer Networks & Operating Systems Lab • Mobile Application Development Lab • MEAN Stack Lab (Even Semester) • Web Technologies Lab • Hadoop & Big-Data Lab (MB 214)	133	Weekly	• Good ventilation with windows • Good lighting • College & Department vision and mission board • Scientist photos • Charts
3	 t Objec Oriented Analysis & Design With UML (MB 322)	133	Weekly	• Good ventilation with windows • Good lighting • College & Department vision and mission board • Scientist photos • Charts
4	 Project Lab (MB 312)	133	Weekly	• Good ventilation with windows • Good lighting • College & Department vision and mission board • Scientist photos • Charts
5	 R & D Lab (MB 202)	66.5	Weekly	• Good ventilation with windows • Good lighting • College & Department vision and mission board • Scientist photos • Charts

6.3 Safety measures in laboratories (10) Total Marks 10.00

Institute Marks : 10.00

Sr. No	Laboratory Name	Safety Measures
1	Lab1 (Room No: MB 201)	- General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - First aid box, Fire extinguisher are kept in the Laboratory - Well trained technical supporting staff. - Avoiding the use of damaged equipment and provides Needful equipment and components. - Periodical servicing of the lab equipment. - Avoiding the use of cell phones. - Appropriate storage areas.
2	Lab2 (Room No: MB 214)	- General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - First aid box, Fire extinguisher are kept in the Laboratory - Well trained technical supporting staff. - Avoiding the use of damaged equipment and provides Needful equipment and components. - Periodical servicing of the lab equipment. - Avoiding the use of cell phones. - Appropriate storage areas.
3	Lab3 (Room No: MB 322)	- General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - First aid box, Fire extinguisher are kept in the Laboratory - Well trained technical supporting staff. - Avoiding the use of damaged equipment and provides Needful equipment and components. - Periodical servicing of the lab equipment. - Avoiding the use of cell phones. - Appropriate storage areas.
4	Project Lab (Room No: MB 312)	- General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - First aid box, Fire extinguisher are kept in the Laboratory - Well trained technical supporting staff. - Avoiding the use of damaged equipment and provides Needful equipment and components. - Periodical servicing of the lab equipment. - Avoiding the use of cell phones. - Appropriate storage areas.
5	R & D Lab (Room No: MB 202)	- General Rules of Conduct in Laboratories are displayed. - Specific Safety Rules for students displayed. - First aid box, Fire extinguisher are kept in the Laboratory - Well trained technical supporting staff. - Avoiding the use of damaged equipment and provides Needful equipment and components. - Periodical servicing of the lab equipment. - Avoiding the use of cell phones. - Appropriate storage areas.

6.4 Project laboratory (20) Total Marks 20.00

Institute Marks : 20.00

The Department of Computer Science and Engineering has a project laboratory equipped with basic resources and latest software's for conducting of project works.

Table 6.4.1: Details of the Project laboratory

Sl.No	Name of the Facilities	Utilization
1	**Hardware: Laptop computers-34** **Processor: Intel i5** **RAM:16GB** **HDD:500GB** **Software's: Jdk-1.8, Putty, Turbo C7, Google Chrome, R and R-Studio,Cloudera, Dream Viewer, WAMP Server, Tomcat Server, Git & Internet to connect GitHub account, Python 3.11, Jupyter, Oracle 10gXE** **UPS:30 KVA**	• **All III year UG students are utilizing for their mini project implementations and use for preparing project documents.** • **All IV year UG students are utilizing for their mini project implementations and use for preparing project documents.** • **All II year PG students are utilizing for their major project implementations and use for preparing project documents.** .
2	**Wi-Fi**	**Special Wi-Fi zone has been created to cater for the LAN facility so as to enable them to have a concrete hands-on experience and be abreast with the latest Software Technologies.**
3	**UPS and Air-conditioning**	**All computers have UPS facility. The laboratory is well lighted and equipped with air-conditioner**
4	**Available Software's: windows 10, devC,Turbo C++,Java SE Development Kit, Java Wireless toolkitMicrosoft Office, Rational rose, Hadoop, pig, hive, eclipse, Oracle 10g,Mysql, Apache Tomcat, Putty, Texmaker4.5,Android SDK,Miktex 3.0 ,Other Open Sources.**	**We provide it for all UG &PG students, Research scholars and Faculty members.**
5	**Other facilities: Printer, Audio system, projector.**	**for smooth running of training programs.**

Table 6.4.2: Details of the UG projects:

Year	No. Of Projects	Title of the project

2021-22	47	1. Cryptocurrency prediction with python using Machine learning 2. NFT Marketplace Using Reactive Native 3. Anonymous Message using Mern Stack 4. FOREST FIRE PREDICTION SYSTEM 5. "FAKE NEWS DETECTION USING MACHINE LEARNING AND PYTHON" 6. Loan eligibility prediction using machine learning 7. Multi banking Transaction system 8. Age and Gender Classification by CNN and OpenCV 9. CANCER DETECTOR USING ML 10. REAL ESTATE PRICE PREDICTION using SKLEARN and LINEAR REGRESSION 11. Climate change prediction using time series 12. Parking Slot Booking System 13. Semantic-Aware Searching over Encrypted Data for Cloud Computing 14. SOCIAL MEDIA MONITORING BY USING SENTIMENTAL ANALYSIS 15. Diabetics Prediction 16. Co2 Emmis ion Prediction 17. using ml algorithms detection of spam messages 18. TELEGRAM BOT USING PYTHON 19. BUILDING YOUR OWN WEB BROWSER 20. Android Application For Text Encryption Using Various Algorithms 21. Travel Advisor using React js 22. Crypto tracker using react naive and expo-CLI 23. Sign Language Interpreter using Machine Learning 24. Movie Recommendation System Using Machine Learning 25. Predicting Influencers in Social Network 26. Traffic Signs Recognition Using CNN 27. Driver Drowsiness Detection 28. Moving object detection using framing and summing 29. Text recognition in images 30. Prediction of gold price using machine learning 31. QR Code based Self-Billing system 32. CYBER ATTACKS ANALYSIS USING ML 33. SMART CROP SELECTION 34. Gesture virtual Mouse 35. social distance tracker 36. Vehicle Detection System Using Yolo with Vehicle Traffic Simulation 37. Stacklite: Stack Overflow Tag Prediction 38. Project Advisor Using Mern Stack 39. Neural Machine Translation for Indian Languages by RNN 40. Facial Emotion Detection Using CNN 41. detection using YOLO 42. Vehicle Tracking and Speed Estimation from Traffic Videos 43. Speech Emotion Recognition 44. Online Visiting Card Creation Project 45. Stock price prediction 46. BLOCK CHAIN API MARKET PLACE 47. E commerce website using MERN STACK

Students Published Projects-Samples

- Vaka Neelima[1], Cherukuri Nayomi[2], Arla Prasanna Kumari[3], Munnangi Ravi Teja[4], Mr. K Sivakrishna[5], Dr.M.Sreenivasulu “Traffic Signs Recognization using Machine Learning”.
- G.Bala Krishna[1], E.Raghunath Reddy[2], K.Sai Prakash[3], G.Johnson[4], Mr.V.GopiKrishna" Stock Price Prediction Using Python in Machine Learning"
- Sk.Mohammed Jubear[1], D.Pavan Kumar Reddy[2], G.Subramanyam[3], Sk.Farooq[4], Dr. K Siva Ram Prasad[5], Mr.N.SrinivasaRao " A Review on Speech Emotion Recognition Using Machine Learning"
- Katari Chandrika Sai[1], Masanam Supriya[2], Pallapu Yamini[3], Nagandla Sai Lakshmi Santhoshi[4], “Dr. T.R Chaitanya[5], Mr.V.Sriharsha" Multibanking Transaction System by One Touch”
- Gaddam Chakradhar Reddy[1], Ramanadham Rohith Kumar[2], Pikkili Siva Kasi[3], Navuluri Sarath Chandra[4], Mr. R. Pavan Kumar[5], Dr.P.Prabakaran" An Evaluation on the efficiency of E-Mail Spam Detection Using Naive Bayes Classifier”
- Balisetty Naga Nikitha[1], Addanki Sudha Maheswari[2], Dudekula Shameena[3], Bandaru Poojasri[4], Mrs. Heena Kauser[5], .Dr.G. Sambasiva Rao" Crypto Currency Price Prediction with Machine Learning Using Python“
- Keerthi Gayatri[1], Muttum Venkata Yamini[2], Ukkadapu Thanmayee[3], Medikonda Bhagya Jyothi[4], Dr. M.Srinivasa Rao[5], Mr. D. Janardhan Reddy “Age and Gender Identification Using Neural Networks“

7 CONTINUOUS IMPROVEMENT (75) Total Marks 75.00

7.1 Actions taken based on the results of evaluation of each of the COs, POs & PSOs (30) Total Marks 30.00

Institute Marks : 30.00

POs Attainment Levels and Actions for Improvement- (2021-22)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	2.1	2.14	Target Achieved. Enhancement in ability to solve analyze the numerical.
ACTION 1: We inspire students to participate in technical events, other events where their basic knowledge should convert to application matching with defined level of their standards. ACTION 2: Extra classes were conducted to improve fundamentals of engineering mathematics, science and engineering fundamentals for weak students.			
PO 2 : Problem Analysis			
PO 2	2.1	2.11	Target Achieved. Experimental analysis of the assigned problem.
ACTION 1: Slow learners are identified and provided with additional assignments. ACTION 2: Incorporation of more numerical problems during their regular lectures. ACTION 3: Students are motivated to participate in science project exhibition for developing an Analytical mind which can work towards problem solving.			
PO 3 : Design/development of Solutions			
PO 3	2.1	1.92	Partially Target Achieved. Able to innovative prototype.
ACTION 1: Students practiced problem solving in Laboratories, through workshops and internships, they exposed to various challenges and problems in society. ACTION 2: Students are encouraged and motivated to take up project works that include and pertain to public health and safety, and the cultural, societal, and environmental considerations. ACTION 3: Students adopted all the learnt concepts in developing the projects to solve various problem in real-world.			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	2.1	1.88	Partially Target Achieved. Extend the ability to experimentally analyze the problems through relevant software's.
ACTION 1: Academic workshops are coming into picture to apply more knowledge in terms of conduction of experiments and analysis of results at required level. ACTION 2: Encouraged students to take implant training and group project on multidisciplinary domains.			
PO 5 : Modern Tool Usage			
PO 5	2.1	2.14	Target Achieved. Usage of additional software's, latest testing too.
ACTION 1: Seminars and workshops are conducted to give hands on experience to various Software /IT and modern framework tools used in industry. ACTION 2: Faculty are encouraged to take up industrial consultancy to make use of the laboratory Facilities as well as to provide the students to work on the real-world problems. ACTION 3: Case studies on subject areas are encouraged and allowed students to explore the same Using relevant software tools.			
PO 6 : The Engineer and Society			
PO 6	1.8	1.82	Target Achieved. Investigation of problems faced by society were addressed.
ACTION 1: Soft skill training conducted by the placement cell. ACTION 2: Encouraged students to take part in Swachh Bharat drives, Blood Donation Camps, Village visits, voluntary teaching and mentoring of downtrodden children. ACTION 3: Special coaching class for communication skills were conducted to improve the placement Opportunities. ACTION 4: Awareness programs on road safety, yoga etc. has been organized in college.			
PO 7 : Environment and Sustainability			
PO 7	1.8	1.76	Partially Target Achieved. Projects related to economical and environmental contexts were planned for final year.
ACTION 1: The activity like Tree Plantation has organized to encourage the students for understanding the responsibility towards environment. ACTION 2: Seminar to be conducted on awareness on competitive exams for higher studies. ACTION 3: Create case studies for understanding the impact of the subjects in real time.			
PO 8 : Ethics			
PO 8	1.8	1.45	Partially Target Achieved. Planned Expert lecture on professional ethics and managerial skills.
ACTION 1: Guest lectures on current trends is conducted. ACTION 2: Students are encouraged to participate in paper presentation, workshops etc. ACTION 3: MOU's with organization help the students to learn recent trends with ease. ACTION 4: Skill development program on Life Skills for Engineers is introduced in the curriculum. ACTION 5: To encourage students to Participation in Co-Curricular activities and Games and promote commitment to ethical principles and an understanding of sportsmanship and that participation is more important than winning. ACTION 6: Lectures and awareness/ motivational programmes are conducted. Career readiness program, corporate lectures and motivational talks are arranged to overcome the above observations.			
PO 9 : Individual and Team Work			
PO 9	1.8	1.91	Target Achieved. Ability to co-ordinate and team management through conduction of projects.
ACTION 1: Projects pertaining to the latest problems were analyzed with frequent interactions from industrial experts and to distribute the work within the team towards its execution of through Academic projects. ACTION 2: The laboratory work of the students is conducted by framing student groups so that students learn to work in a team environment.			
PO 10 : Communication			
PO 10	1.8	1.99	Target Achieved. Ability to present and convey the latest engineering trends.
ACTION 1: Soft skills training is imparted to students to enhance various aspects of communication/technical talks by group discussions, presentations and new learning outcomes. ACTION 2: Students that are seen to be weak in communication skills are encouraged to undergo relevant courses and are also referred to language lab for improving their communication skills.			
PO 11 : Project Management and Finance			
PO 11	1.8	1.88	Target Achieved. Planned expert lectures on topics related to project management & finance.
ACTION 1: The students are encouraged to organize and lead various technical and cultural events to improve the managerial skills. ACTION 2: The awareness is created among the student regarding the management principles and managing projects. The relevant courses are revised and upgraded regularly to cater to latest techniques and trends in the area.			
PO 12 : Life-long Learning			
PO 12	1.8	1.85	Target Achieved. Significant improvement in number of students clearing competitive examinations.
ACTION 1: Students are learning various latest technologies like Machine Learning, IoT, Blockchain through MOOC courses to adopt self-learning and to get more opportunities in industry. ACTION 2: Existence of chapters of professional bodies/ societies like ACM/, ISTE. etc. and events under the banner of these societies gives students opportunity to have a lifelong learning. The students are encouraged to take membership of these societies.			

PSOs Attainment Levels and Actions for Improvement- (2021-22)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Ability to adapt to a rapidly changing environment by learning and employing new programming skills and technologies.			
PSO 1	2.1	2.12	Target Achieved
ACTION 1: Courses of lab works in which students learn to use software are included in the Curriculum. The syllabi of these courses are regularly updated. ACTION 2: Project works are encouraged that involve the usage of technical resources such as Software's towards for solving technical problems.			
PSO 2 : Ability to use diverse knowledge across the domains with interpersonnel skills to deliver the Industry need.			
PSO 2	2.1	1.94	Partially Target Achieved
ACTION 1: Students are motivated to take up the real-life problems during their project work so that They can design, analyze and find solution which gives exposure to latest technologies. ACTION 2: Project works are encouraged that involve the usage of modern tools and techniques of Data Collection/ Surveying/ Analysis/project Planning.			

7.2 Academic Audit and actions taken thereof during the period of Assessment (15)

Total Marks 15.00

Institute Marks : 15.00

The purpose of the academic audit is to evaluate the performance of the various departments, and appreciated their achievements and give suggestions for further improvement in the quality of teaching, research, administration, curricular, and extra-curricular activities. It is to assess the academic performance of the both individual faculty and the whole department.

Academic audit has two types namely internal and external.

Internal Academic Audit:

Internal audit is an in-house operation for self-introspection. It evaluates at the end of the each semester. Academic audit team is assigned by the principal on the recommendations of convenor of the academic audit committee.

Following documents are verified at the time of audit.

- Syllabus Coverage
- Question Bank of all courses
- Counselling files
- Attendance Registers
- Course files of both Theory & Lab
- Class teacher file
- Department files

The audit team verifies all the documents and submits the report to audit committee. The academic audit committee convener prepares the consolidated report along with recommendations and submits to the principal. The principal implement all the recommendations through Internal Quality Assurance Cell (IQAC).

External Academic Audit:

External audit has more reliability. It evaluates after the completion of the each academic year. Institute invites two professors from the prominent institutes.

Following documents are verified at the time of audit.

- Curricular Aspects
- Teaching-Learning and Evaluation
- Research and Innovation
- Student Progression
- Curricular, and extra-curricular activities

The audit team verifies all the documents and prepares and submits the non-compliance report along with the suggestions to principal. The principal implement all the feasible suggestions through IQAC.

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

Total Marks 10.00

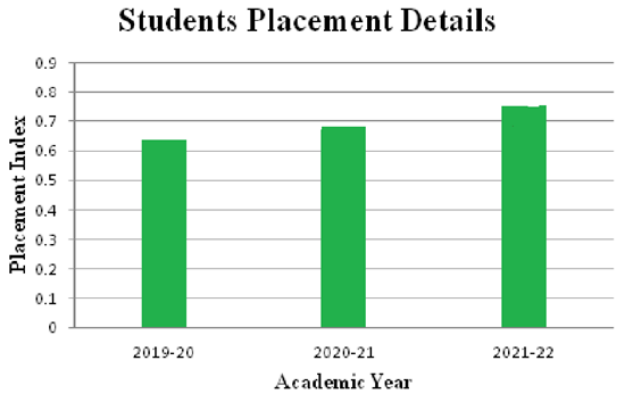
Institute Marks : 10.00

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

Assessment is based on improvement in:

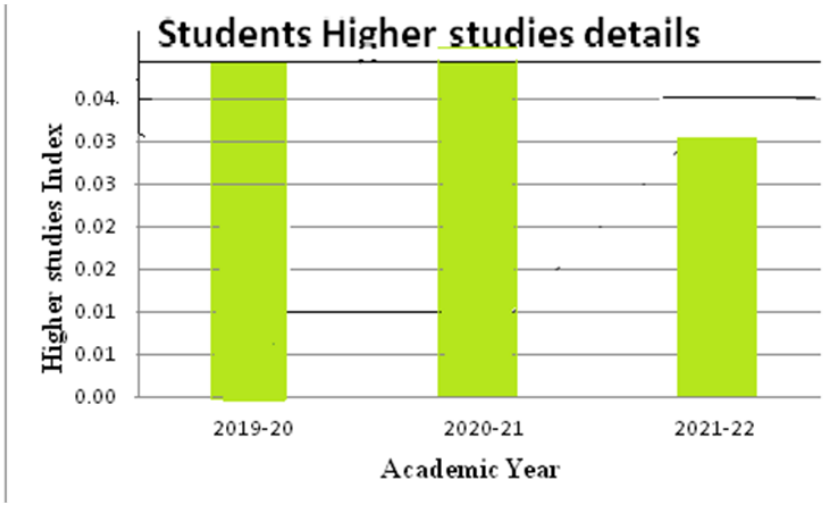
- **Placement:** number, quality placement, core industry, pay packages, etc.

Item	2021-22	2020-21	2019-20
Total No. of final year students (N)	189	125	109
No. of students placed in companies (X)	138	86	68
Placement Percentage index: ((X/N)*100)	0.73	0.68	0.62
Average Placement = (P1+P2+P3)/3	0.67		



- **Higher studies**: performance in GATE, GRE, GMAT, CAT, etc. and admissions in premier institutions.

Item	2021-22	2020-21	2019-20
Total No. of final year students (N)	189	125	109
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT, etc.) (Y)	7	7	6
Higher studies Percentage index: ((Y/N)*100)	0.03	0.05	0.05
Average Higher studies = (P1+P2+P3)/3	0.04		



7.4 Improvement in the quality of students admitted to the program (20)

Total Marks 20.00

Institute Marks : 20.00

Item		2022-23	2021-22	2020-21
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	No of students admitted	198	198	192
APEAPCET	Opening Score/Rank	9827	11357	14415
	Closing Score/Rank	154806	133254	127043
Name of the Entrance Examination for Lateral Entry or lateral entry details	No of students admitted	18	18	18
	Opening Score/Rank	218	210	774
APECET	Closing Score/Rank	5528	6928	6837
Average CBSE/Any other board result of admitted students(Physics, Chemistry&Maths)		69.64	77.67	79.13

8 FIRST YEAR ACADEMICS (50)

Total Marks 46.45

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

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			
Y VEDASREE	AJUPY2895E	MA	30/04/2008		Assistant Professor	06/01/2017	100	100	100	Yes	Regular	
V.PRABHAKAF	AJHPV0671N	MA	30/11/2010	English	Assistant Professor	28/09/2020	100	100	100	Yes	Regular	
T.JHANSI LAK	CMIPD6983M	MA	30/12/2008	English	Assistant Professor	01/06/2019	100	100	100	Yes	Regular	
M.PUSHPAVAT	CWXPM3431L	MA	30/06/2011		Assistant Professor	01/06/2019	100	100	100	Yes	Regular	
A.SUHASINI	BHAPA4544D	MA	31/05/2013	English	Assistant Professor	27/01/2020	100	100	100	Yes	Regular	
M.SANDHYA F	BCXPM6029F	MA	30/04/2005	English	Assistant Professor	28/09/2020	100	100	100	Yes	Regular	
M.RAVEENDR	AYYPR2687L	M.Sc	30/10/2007	Mathematics	Assistant Professor	08/08/2011	100	100	100	Yes	Regular	
S.V.S.PHANEE	CMYPS2805K	M.Sc	30/04/1998	Mathematics	Assistant Professor	28/09/2020	100	100	100	Yes	Regular	
J.SEETHA	JODPS8648N	M.Sc	30/04/2018	Mathematics	Assistant Professor	01/09/2022	100	0	0	Yes	Regular	
Dr.V.HIMAMAH	AXQPV3208G	M.Sc. and PhD	30/05/2018	Physics	Associate Professor	17/10/2019	100	100	100	Yes	Regular	
N.NARASIMHA	ATGPN3113Q	M.Phil	05/02/2012	Physics	Assistant Professor	01/06/2018	100	100	100	Yes	Regular	
K.SRIRANJAN	DSHPK9325L	M.Sc	30/04/2007	Physics	Assistant Professor	17/10/2019	100	100	100	Yes	Regular	
M.JANARDHA	AHSPJ8480G	M.Sc	30/04/2005	Physics	Assistant Professor	15/05/2017	100	100	100	Yes	Regular	
Dr.M MALLI KA	CGWPM7867E	M.Sc. and PhD	29/07/2017	Environmental Sciences	Associate Professor	20/11/2017	100	100	100	Yes	Regular	
Dr.P.GIDYONU	CVTPP7014B	M.Sc. and PhD	16/03/2021	Chemistry	Assistant Professor	01/09/2021	100	100	0	Yes	Regular	
Dr.CH.VINUTH	AVZPV4660K	M.Sc. and PhD	29/01/2018	Chemistry	Associate Professor	05/04/2019	100	100	100	Yes	Regular	
CH.DV .SAI KU	BFJPC8845N	M.Sc	30/11/2015	Chemistry	Assistant Professor	19/09/2019	100	100	100	Yes	Regular	
B.KOTESH BA	BFOPB5835E	M.Sc	30/04/2003	Chemistry	Assistant Professor	18/12/2017	100	100	100	Yes	Regular	
B.ESWARI	BLSPB9968C	M.Sc	30/04/2011	Chemistry	Assistant Professor	28/09/2019	100	100	100	Yes	Regular	
S.LAKSHMI	CBCPG9870R	M.Sc	30/04/2004	Chemistry	Assistant Professor	01/11/2012	100	100	100	Yes	Regular	
M.HIMABINDU	CVOPM1277Q	M.Sc	30/04/2011	Chemistry	Assistant Professor	20/10/2021	100	100	0	Yes	Regular	
T.NAGENDRA	EVKPR4332D	M.Sc	31/12/2006	Chemistry	Assistant Professor	03/04/2020	100	100	100	Yes	Regular	
G.HARIPRIYA	BPMPG9604Q	M.Sc	30/04/2004	Chemistry	Assistant Professor	18/11/2022	100	0	0	Yes	Regular	
Mr.P. Sreehari	BBWPP1598J	M.E/M.Tech	06/01/2012	CSE	Assistant Professor	03/05/2014	100	100	100	Yes	Regular	
Ms M. Dedeep	CYCPK7632N	M.E/M.Tech	05/01/2018	CSE	Assistant Professor	15/06/2018	100	100	100	Yes	Regular	
K.Anusha	BAPPK2246C	M.E/M.Tech	02/01/2016	CSE	Assistant Professor	01/09/2021	100	100	0	Yes	Regular	
I.Meghana	AEAPI9420C	M.E/M.Tech	12/01/2020	CSE	Assistant Professor	18/10/2021	100	100	0	Yes	Regular	
S.Visweswara	EQIPS6158B	M.E/M.Tech	12/01/2017	CSE	Assistant Professor	06/01/2020	100	100	100	Yes	Regular	
J.Krishna Kish	JXZPK7024M	M.E/M.Tech	12/01/2012	CSE	Assistant Professor	17/06/2020	100	100	100	Yes	Regular	
Y. Sivaiah	AUTPY4534C	M.E/M.Tech	11/01/2021	CSE	Assistant Professor	12/06/2021	100	100	0	Yes	Regular	
D. Venkata Sri	CIUPD0964L	M.E/M.Tech	11/01/2021	CSE	Assistant Professor	12/06/2021	100	100	0	Yes	Regular	
P V Madhusud	BHSPP5372G	M.E/M.Tech	11/01/2012	CSE	Assistant Professor	07/10/2017	100	100	100	Yes	Regular	

M.Rajasekhar	DBOPM0341G	M.E/M.Tech	20/03/2019	EEE	Assistant Professor	03/03/2020	100	100	100	Yes	Regular	
D.Balaram Rec	BJJPD4900M	M.E/M.Tech	20/03/2015	EEE	Assistant Professor	03/03/2020	100	100	100	Yes	Regular	
S.Sreenu	GBKPS6548L	M.E/M.Tech	10/11/2013	EEE	Assistant Professor	20/08/2020	100	100	100	Yes	Regular	
P.Pedababu	BGBPG9945A	M.E/M.Tech	07/07/2018	EEE	Assistant Professor	20/08/2020	100	100	100	Yes	Regular	
D. Syam Kuma	BSQPD4184H	M.E/M.Tech	30/01/2017	MECH	Assistant Professor	28/09/2020	100	100	100	Yes	Regular	
Dr.K. Rajasekh	DGNPK0635M	ME/M. Tech and PhD	05/03/2022	MECH	Assistant Professor	28/09/2020	100	100	100	Yes	Regular	
K. Suresh Babı	DCAPK6527B	M.E/M.Tech	21/07/2008	MECH	Assistant Professor	28/09/2020	100	100	100	Yes	Regular	
T.ANUSHA	AJMPT8181A	M.E/M.Tech	23/11/2013	ECE	Assistant Professor	21/10/2021	100	100	0	Yes	Regular	
CH.MANASA	BCOPC1422P	M.E/M.Tech	10/08/2017	ECE	Assistant Professor	01/10/2021	100	100	0	Yes	Regular	
T.RAMAIAH	AJAPT9596P	M.E/M.Tech	30/03/2015	ECE	Assistant Professor	23/11/2015	100	100	100	Yes	Regular	
P.KIRAN BABU	AVHPP8016F	M.E/M.Tech	28/12/2013	ECE	Assistant Professor	28/09/2020	100	100	100	Yes	Regular	
G.PAVANI	AYVPG7080R	M.Sc	30/04/2008	Mathematics	Assistant Professor	25/11/2021	100	100	0	Yes	Regular	
M.KALYANI	CTTPK5698G	M.Sc	28/02/2021	Mathematics	Assistant Professor	12/07/2021	100	100	0	Yes	Regular	
K.CHINA DEVI	DMIPK7448M	MA	30/04/2011	English	Assistant Professor	02/09/2019	100	100	100	Yes	Regular	
B.Ayyappa jyot	BLUPB4226M	MA	31/12/2018	English	Assistant Professor	02/09/2019	100	100	100	Yes	Regular	
M.Saramma	NRIPS7663R	M.E/M.Tech	15/03/2020	EEE	Assistant Professor	01/08/2020	100	100	100	Yes	Regular	
Dr.P.RAMESH	ANSPP0160B	M.A and Ph.D	31/07/1996	English	Professor	28/09/2020	0	100	100	No	Regular	02/07/2022
K.GURAVA RE	BCSPK6664D	M.Sc	30/04/2008	Chemistry	Assistant Professor	05/01/2016	0	100	100	No	Regular	30/09/2022
M.RAMA KOTA	CNBPM8008E	M.Sc	30/04/2010	Chemistry	Assistant Professor	28/09/2020	0	100	100	No	Regular	30/09/2022
Dr.M RAVI KUI	BWYPM5407N	M.Sc. and PhD	03/08/2015	Chemistry	Professor	28/09/2020	0	0	100	No	Regular	31/08/2021
Dr.L KRISHNA	ADJPL5146L	M.Sc. and PhD	30/05/2015	Mathematics	Professor	08/01/2018	0	100	100	No	Regular	30/09/2022
A.MURALI KRI	AICPA9358B	MA	30/05/1997	English	Assistant Professor	28/09/2020	50	50	50	No	Regular	31/12/2022
Ms.AJP. SUVA	BGOPA3773P	MA	31/03/2006	English	Assistant Professor	03/08/2020	100	50	50	Yes	Regular	
Dr.S.RAMA MC	EQBPS2574G	M.Sc. and PhD	21/12/2019	Mathematics	Associate Professor	03/09/2022	100	0	0	Yes	Regular	
T RAVINDRAN	AKCPT3054H	M.Sc	28/02/2015	Physics	Assistant Professor	01/06/2019	100	100	100	Yes	Regular	
Dr.K.LAKSHMI	BTVPK0162L	M.Sc. and PhD	31/01/2017	Mathematics	Associate Professor	06/06/2017	100	100	100	Yes	Regular	
D KAVITHA	FJRPD1413F	M.E/M.Tech	10/08/2018	CIVIL ENGINEERING	Assistant Professor	22/11/2019	100	100	0	Yes	Regular	
M.Kranthi	ATUPM7900N	M.E/M.Tech	12/02/2013	CSE	Assistant Professor	05/01/2018	0	0	50	No	Regular	30/04/2021
Dr.B.PURNA C	BJYPP1806P	M.Sc. and PhD	31/07/2012	Physics	Professor	04/12/2017	0	0	50	No	Regular	31/05/2021
Dr.C.PAVAN KI	CSVPP4823M	M.Sc. and PhD	10/08/2016	Mathematics	Associate Professor	28/09/2019	0	0	100	No	Regular	05/07/2021
E.SIVA SAI	ADJPE1928R	M.Sc	02/09/2020	Mathematics	Assistant Professor	28/09/2020	0	0	100	No	Regular	31/07/2021
Dr.M.GANAPA	ASQPG8287K	M.Sc. and PhD	30/06/2018	Mathematics	Associate Professor	07/01/2019	0	0	100	No	Regular	22/07/2021
G.Subbarao	AJWPG3711B	M.E/M.Tech	17/05/2014	CSE	Assistant Professor	13/08/2018	100	100	100	Yes	Regular	
Dr.ENDLURI V	AAPPE4392N	ME/M. Tech and PhD	30/12/2020	CSE	Associate Professor	05/06/2017	100	100	100	Yes	Regular	
T.Silpa	BKEPT2774F	MA	31/12/2018	English	Assistant Professor	02/09/2019	100	60	100	Yes	Regular	
B.MALLIKARJI	ANQPB4659M	M.Sc	30/04/1998	Mathematics	Assistant Professor	01/06/2019	100	100	100	Yes	Regular	

V.MADHAVA R	BIGPM8430B	MA	30/01/2016	English	Assistant Professor	16/05/2022	100	0	0	Yes	Regular	
T.V SIVA NAG/	BCVPT7431A	M.Sc	30/04/2011	Mathematics	Assistant Professor	16/10/2020	100	100	100	Yes	Regular	
CH.RATNA RA	AMKPC0569J	MA	31/03/1994	English	Assistant Professor	26/10/2020	100	50	50	Yes	Regular	
Dr.B.HARI BAE	ATZCB0248F	M.Sc. and PhD	13/06/2022	Mathematics	Assistant Professor	20/07/2009	100	100	100	Yes	Regular	
A.SIVA RAM P	AWOPA7459D	M.Sc	13/04/2013	Mathematics	Assistant Professor	02/09/2013	100	50	100	Yes	Regular	
V BALA GURA	GAGPR6914E	M.Sc	30/04/2018	Mathematics	Assistant Professor	28/09/2020	50	50	50	Yes	Regular	
B.MAHALAKA	BGCPB0519G	M.Sc	30/04/2016	Mathematics	Assistant Professor	28/09/2020	100	50	100	Yes	Regular	
R.KAVYA	HSNPK2265R	M.Sc	30/06/2022	Mathematics	Assistant Professor	03/09/2022	100	0	0	Yes	Regular	
G.RAMESH BA	AUJPG7243E	M.Sc	30/04/2005	Physics	Assistant Professor	03/03/2012	100	100	100	Yes	Regular	
Dr.P.BRAHMAI	AYBPB6195Q	M.Sc. and PhD	01/08/2019	Zoology	Associate Professor	28/09/2020	100	100	100	Yes	Regular	
Dr.SD.RAFI	DWXPS1602A	M.Sc. and Ph.D. (Chemistry)	09/06/2022	Chemistry	Assistant Professor	22/12/2021	100	100	0	Yes	Regular	
SD.NOUSHEE	HVLPS8403J	M.Sc	30/06/2020	Chemistry	Assistant Professor	10/11/2020	100	100	100	Yes	Regular	
O SRI ROOPA	ACIPO2890G	M.Sc	30/04/2008	Chemistry	Assistant Professor	08/10/2022	100	0	0	Yes	Regular	
M. Anusha	CWAPM3041D	M.E/M.Tech	19/12/2016	MECHANICAL ENGINERRING	Assistant Professor	28/12/2016	100	100	100	Yes	Regular	
Dr.UDAYABHA	BZHPP6688J	ME/M. Tech and PhD	14/10/2020	ECE	Assistant Professor	21/10/2021	100	100	0	Yes	Regular	
U.MANJULA	DGEPM5547K	M.E/M.Tech	13/05/2017	ECE	Assistant Professor	22/03/2021	100	100	0	Yes	Regular	
T VENKATA PI	AUNPT0627K	M.E/M.Tech	04/10/2022	CIVIL ENGINEERING	Assistant Professor	14/10/2022	100	0	0	Yes	Regular	
N VEERANJAI	ALSPN1594P	MA	30/04/2010	English	Assistant Professor	01/05/2018	0	50	100	No	Regular	22/04/2022
K.BALA CHAN	APAPB4859D	M.Sc	28/04/2006	Mathematics	Assistant Professor	19/09/2013	0	100	100	No	Regular	16/08/2022
K.SRINIVASUL	BKIPK5360A	M.Sc	30/04/1997	Mathematics	Assistant Professor	10/01/2013	0	50	50	Yes	Regular	
CH.KOTI REDI	AITPC0590Q	M.Sc	28/04/2006	Mathematics	Assistant Professor	17/10/2013	50	50	50	Yes	Regular	
K.SUBBA RAC	CKMPK5853K	M.Sc	30/11/2010	Mathematics	Assistant Professor	06/03/2014	50	50	50	Yes	Regular	
A.NAGAMALLI	ASLPA8302Q	M.Sc	28/08/2007	Mathematics	Assistant Professor	01/06/2019	100	50	100	Yes	Regular	
E.NARASAMM	AAZPE0839J	M.Sc	30/04/2007	Mathematics	Assistant Professor	01/06/2018	50	50	50	Yes	Regular	
CH.V.SUBRAM	BDXPC8524L	M.Sc	31/03/2008	Mathematics	Assistant Professor	25/11/2021	50	50	0	No	Regular	31/01/2023
Mr.M.Venkata I	GKOPP8634K	M.E/M.Tech	01/04/2019	CSE	Assistant Professor	04/09/2019	100	100	100	Yes	Regular	
K.MADHU BAE	DTKPK6602J	MA	30/04/2013	English	Assistant Professor	28/09/2020	0	0	100	No	Regular	30/08/2021
B.VEERASHAI	BBWPB1382E	M.Sc	30/04/2007	Mathematics	Assistant Professor	03/08/2019	0	0	100	No	Regular	30/08/2021
SK.NAZER HU	KQKPS8352D	M.Sc	31/12/2009	English	Assistant Professor	02/09/2019	0	0	100	No	Regular	30/08/2021
L.SRINIVAS	ALFPL1306E	M.Sc	30/04/2007	Mathematics	Assistant Professor	03/08/2019	0	0	100	No	Regular	30/08/2021
B.Thirumalarac	CLZPB5877N	M.E/M.Tech	01/08/2018	CSE	Assistant Professor	01/09/2018	0	50	100	No	Regular	06/06/2022
A.RAJU	BFXPA9896P	M.Sc	30/04/2016	Physics	Assistant Professor	02/09/2019	100	100	100	Yes	Regular	

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)
2020-21(CAYm2)	1020	73	14	5
2021-22(CAYm1)	1020	76	13	5
2022-23(CAY)	1140	79	14	5
Average	1060	76	13	5

AverageFYSFR: 0.00

Assessment [(5 * 15) / AverageFYSFR]: 5.00

8.2 Qualification of Faculty Teaching First Year Common Courses (5) Total Marks 3.67

Institute Marks : 3.67

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]
2020-21	7	46	51	3.00
2021-22	8	55	51	4.00
2022-23	10	61	57	4.00

Average Assessment: 3.67

8.3 First Year Academic Performance (10) Total Marks 7.78

Institute Marks : 7.78

Academic Performance	CAYm1(2021-22)	CAYm2(2020-21)	CAYm3 (2019-20)
Mean of CGPA or mean percentage of all successful students(X)	7.37	8.13	7.52
Total Number of successful students(Y)	195.00	192.00	193.00
Total Number of students appeared in the examination(Z)	192.00	189.00	191.00
API [X*(Y/Z)]	7.49	8.26	7.60

Average API[(AP1+AP2+AP3)/3] : 7.78

Assessment = Average API : 7.78

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

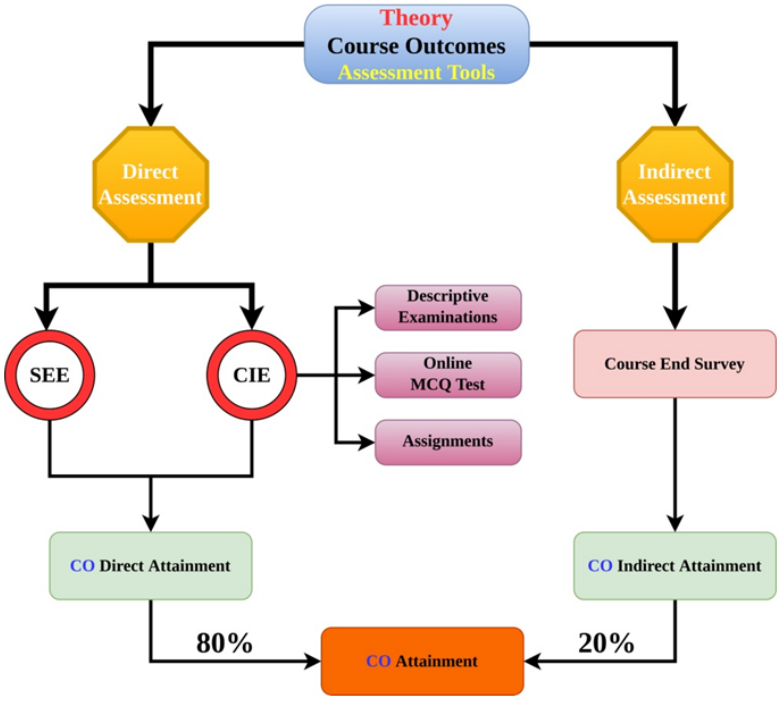
For the Evaluation of attainments CO's both direct and indirect assessment methods are used. The 80% weightage is considered for direct assessment which includes internal assessments (like Mid-examinations, Assignments, Day to Day Evaluations, etc) and Semester end examinations. The remaining 20% weightage is based on course-end survey.

Internally developed excel spreadsheets are used for direct assessment. Feedback forms based on CO's were framed for each class and the feedback was taken from students for indirect assessment.

CO attainment process

The first year curriculum comprises of various types of courses like Theory Courses, Laboratory Courses, and Mandatory courses.

Theory Attainment Process



Theory:

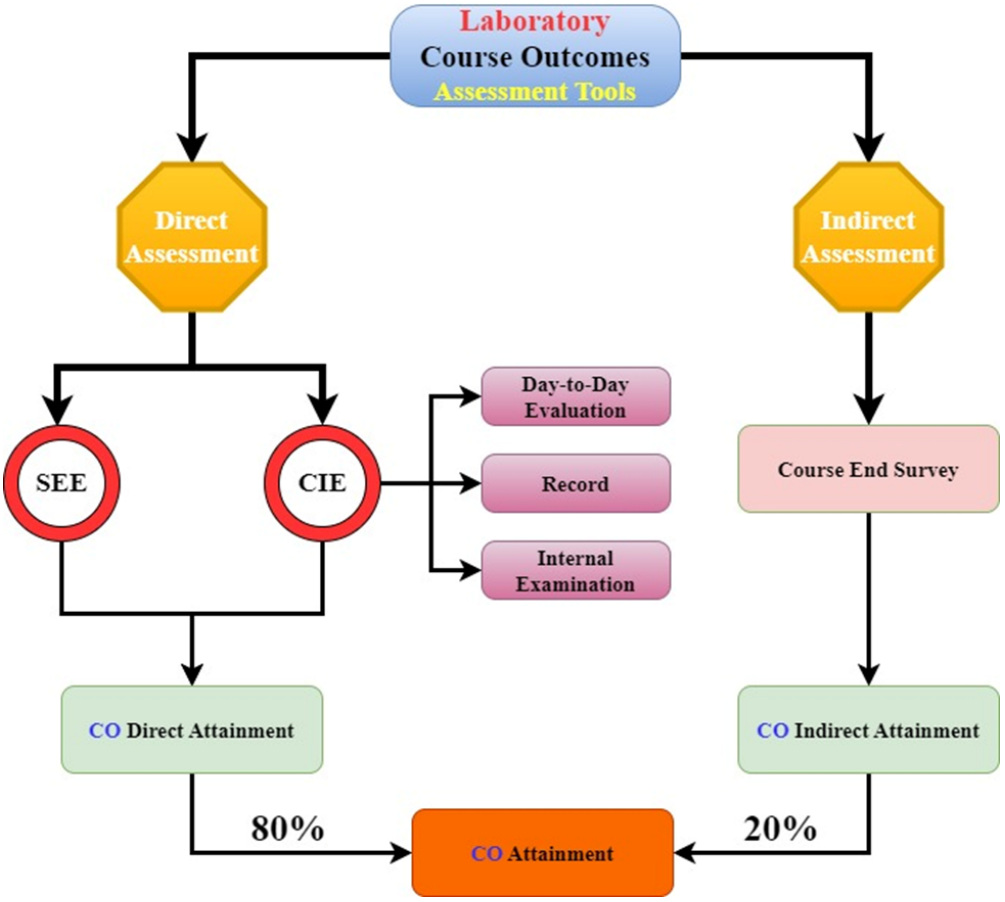
Mid-Examinations: Two mid-examinations are conducted for each semester. Mid-examinations serve to encourage students to keep up with course content covered. The Mid examination is of 90 minutes for 15 marks. The questions are framed in such a way that they should map Bloom's taxonomy, whereas each question is mapped to the respective course outcomes, which was evaluated based on the set attainment levels. The Multiple choice questions of 10 marks is also evaluated in both mid's of each course.

Assignments: Students are assigned course-related work and their submissions are evaluated on the basis of work quality. A total of 2 assignments are given per course where each assignment carries 5 Marks.

Semester-End Examination: The semester-end examination is 180 minutes of 70 marks duration and covers the entire syllabus of the course. The questions are framed in such a way that they should satisfy Bloom's taxonomy, where as each question is mapped to the concurred course outcomes of the course. The CO's are evaluated based on the set attainment levels.

All direct assessment such as Mid-examinations, Assignments & Semester end examinations covers 80% of weightage and Indirect assessment consists of a course-end survey which comprises 20% of weightage.

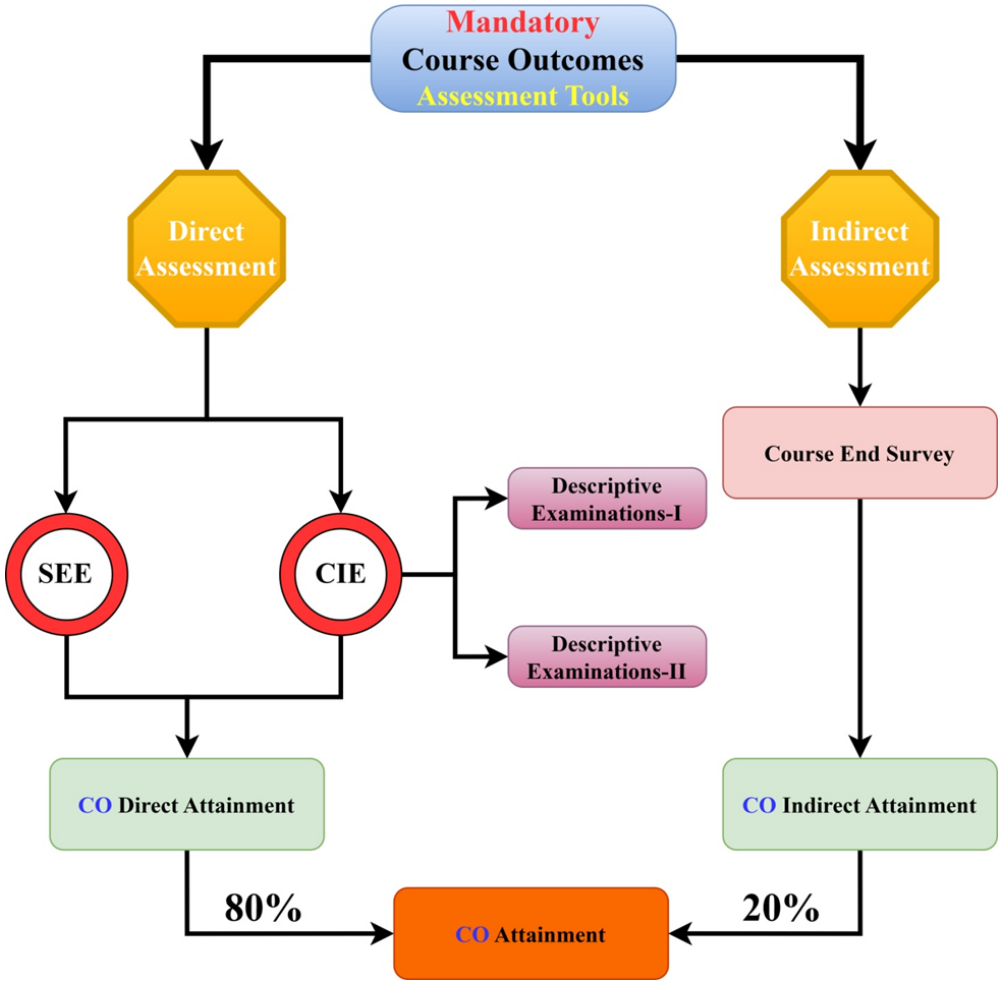
Laboratory Attainment Process:



Laboratory Courses:

For a total of 50 marks, continuous internal evaluation is 15 marks which comprises mainly day-to-day evaluation (5 marks), Record (5 marks), Internal Examinations (5 marks) and Semester end examinations of 35 marks which cover 80% weightage of laboratory assessment and remaining 20% weightage for course end survey.

Mandatory Course Attainment Process:



Mandatory Courses:

For a total of 100 marks, continuous internal evaluation is 30 marks which comprise two descriptive examinations, and Semester end examinations of 70 marks are conducted. All direct assessment covers 80% of weightage and Indirect assessment consists of a course-end

survey which comprises 20% of weightage.

Course End Survey is collected at the end of course from the students about their attainment level of COs.

Feedback is collected with closed ended questions with options as

4- Excellent

3- Very Good

2- Good

1-Average

0-Poor

There response will be converted into percentage

$$\% \text{ of attainment} = \frac{\sum \text{Grade} \times \text{Number of responses to that grade}}{\text{Total respnses}} \times 100$$

Depending on the level of attainment grade was decided as mentioned below.

% of attainment	Grade
More than or equal to 80%	3
More than or equal to 70% and less than 80%	2
More than or equal to 60% and less than 70%	1
Less than 60%	0

8.4.2 Record the attainment of Course Outcomes of all first year courses (5) Institute Marks : 5.00

As the 2021 admitted batch was introduced with new R21 regulations, the threshold for internal and external exams was calculated based on the previous two batches (2019& 2020) pass percentages in the course having the same/similar syllabus.

For 2018 admitted batch

2019 admitted & 2020 admitted batch average pass percentage	Internal Threshold	External Threshold
Less than 50%	55	40
More than or equal to 50% and less than 60%	57.5	42.5
More than or equal to 60% and less than 70%	60	45
More than or equal to 70% and less than 80%	62.5	47.5
More than or equal to 80%	65	50
If the course does not exist in R18	60	45

The percentage of students who secured more than the threshold was calculated. Grades were given on the % of students who secured more than the threshold value

Percentage of students secured more than the threshold	Grade
More than or equal to 80%	3
Less than 80% and more than or equal to 70%	2
Less than 70% and more than or equal to 60%	1
Less than 60%	0

Depending upon the percentage of students secured more than the threshold, the next batch threshold was decided by the same course as follows.

Next batch threshold for internal courses:

% of students secured more than the threshold value	Action
More than or equal to 95% and less than 100%	Change Threshold to Min (Present batch Thresold+10%, 70)
More than or equal to 90% and less than 95%	Change Threshold to Min (Present batch Thresold+7.5%,70)
More than or equal to 85% and less than 90%	Change Threshold to Min (Present batch Thresold+5%,70)
More than or equal to 80% and less than 85%	Change Threshold to Min (Present batch Thresold+2.5%,70)
Less than 80%	No Change in the threshold is required.

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 (10)

Institute Marks : 10.00

POs Attainment:

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	1.04	1.78	PO11	1.04
C102	2.45	2.50	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103	1.13	1.34	1.82	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.51
C104	2.62	2.42	2.31	2.25	2.25	PO6	PO7	PO8	PO9	1.04	1.22	0.87
C105	1.94	1.94	1.70	1.54	1.04	PO6	PO7	PO8	PO9	PO10	PO11	1.19
C106	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	2.00	2.67	PO11	PO12
C107	2.00	PO2	PO3	3.00	2.00	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C108	3.00	3.00	PO3	3.00	2.00	2.00	2.00	PO8	PO9	PO10	PO11	2.00
C109	2.42	2.26	1.95	1.12	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.45
C110	1.53	1.58	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111	0.97	1.17	1.07	0.83	0.88	PO6	PO7	PO8	PO9	PO10	PO11	1.04
C112	1.51	1.75	1.41	1.38	PO5	0.82	PO7	PO8	PO9	PO10	PO11	0.96
C113	1.39	1.39	1.39	0.96	1.18	0.86	PO7	PO8	PO9	PO10	PO11	0.79
C114	3.00	2.00	2.00	2.00	PO5	PO6	PO7	PO8	PO9	PO10	PO11	1.50
C115	3.00	3.00	2.75	2.25	PO5	1.50	PO7	PO8	PO9	PO10	PO11	1.50
C116	3.00	2.80	2.80	1.33	1.50	1.50	PO7	PO8	PO9	PO10	PO11	1.40

PO Attainment Level

PSOs Attainment:

Course	PSO1	PSO2
C101	1.26	1.04
C102	0.88	0.00
C103	1.51	1.89
C104	2.14	2.02
C105	1.40	1.43
C106	2.00	2.00
C107	2.00	PSO2
C108	2.50	2.83
C109	1.62	0.81
C110	0.59	PSO2
C111	0.54	0.81
C112	1.04	0.79
C113	0.88	0.81
C114	2.00	1.00
C115	2.33	2.00
C116	2.00	1.50

PSO Attainment Level

Course	PO1	PO2
Direct Attainment	1.54	1.35
PSO Attainment	1.54	1.35

8.5.2 Actions taken based on the results of evaluation of relevant POs and PSOs (10)

Institute Marks : 10.00

POs Attainment Levels and Actions for Improvement- (2021-22)

POs	Target Level	Attainment Level	Observations
PO 1 : Engineering Knowledge			
PO 1	1.5	2.14	Target Achieved Enhancement in ability to solve analyze the numerical
ACTION 1: We inspire students to participate in technical events, other events where their basic knowledge should convert to application matching with defined level of their standards ACTION 2: Extra classes were conducted to improve fundamentals of engineering mathematics, science and engineering fundamentals for weak students.			
PO 2 : Problem Analysis			
PO 2	1.5	2.09	Target Achieved Experimental analysis of the assigned problem
ACTION 1: Slow learners are identified and provided with additional assignments ACTION 2: Incorporation of more numerical problems during their regular lectures. ACTION 3: Students are motivated to participate in science project exhibition for developing an Analytical mind which can work towards problem solving.			
PO 3 : Design/development of Solutions			
PO 3	1.5	1.92	Target Achieved Able to innovative prototype
ACTION 1: Students practiced problem solving in Laboratories, through workshops and internships ,they exposed to various challenges and problems in society ACTION 2: Students are encouraged and motivated to take up project works that include and pertain to public health and safety, and the cultural, societal, and environmental considerations. ACTION 3: Students adopted all the learnt concepts in developing the projects to solve various problem in real world			
PO 4 : Conduct Investigations of Complex Problems			
PO 4	1.5	1.79	Target Achieved Extend the ability to experimentally analyze the problems through relevant software's
ACTION 1: Academic workshops are coming into picture to apply more knowledge in terms of conduction of experiments and analysis of results at required level. ACTION 2: Encouraged students to take implant training and group project on multidisciplinary domains			
PO 5 : Modern Tool Usage			
PO 5	1.5	1.55	Target Achieved Usage of additional software's, latest testing too
ACTION 1: Seminars and workshops are conducted to give hands on experience to various Software /IT and modern frame work tools used in industry. ACTION 2: Faculty are encouraged to take up industrial consultancy to make use of the laboratory Facilities as well as to provide the students to work on the real-world problems. ACTION 3: Case studies on subject areas are encouraged and allowed students to explore the same Using relevant software tools.			
PO 6 : The Engineer and Society			
PO 6	1.5	1.34	Target is not Achieved Investigation of problems faced by society were addressed
ACTION 1: Soft skill training conducted by the placement cell. ACTION 2: Encouraged students to take part in Swachch Bharat drives, Blood Donation Camps, Village visits, voluntary teaching and mentoring of downtrodden children ACTION 3: Special coaching class for communication skills were conducted to improve the placement Opportunities ACTION 4 : Awareness programs on road safety, yoga etc has been organised in college.			
PO 7 : Environment and Sustainability			
PO 7	1.5	2.00	Target Achieved Projects related to economical and environmental contexts
ACTION 1: The activity like Tree Plantation has organized to encourage the students for understanding the responsibility towards environment. ACTION 2: Seminar to be conducted on awareness on competitive exams for higher studies. ACTION 3: Create case studies for understanding the impact of the subjects in real time.			
PO 8 : Ethics			
PO 8	1.5	0.00	Target is not Achieved Planned Expert lecture on professional ethics and managerial skills
ACTION 1 Guest lectures on current trends is conducted ACTION 2 Students are encouraged to participate in paper presentation, workshops etc ACTION 3 MOU's with organization help the students to learn recent trends with ease. ACTION 4 : Skill development program on Life Skills for Engineers is introduced in the curriculum. ACTION 5;To encourage students to Participation in Co-Curricular activities and Games and promote commitment to ethical principles and an understanding of sportsmanship and that participation is more important than winning. ACTION 6 : Lectures and awareness/ motivational programmes are conducted. Career readiness program, corporate lectures and motivational talks are arranged to overcome the above observations.			
PO 9 : Individual and Team Work			
PO 9	1.5	1.52	Target Achieved Ability to co-ordinate and team management through conduction of projects
ACTION 1: Projects pertaining to the latest problems were analyzed with frequent interactions from industrial experts and to distribute the work within the team towards its execution of through Academic projects. ACTION 2 : The laboratory work of the students is conducted by framing student groups so that students learn to work in a team environment.			
PO 10 : Communication			
PO 10	1.5	1.83	Target Achieved Ability to present and convey the latest engineering trends
ACTION 1:. Soft skills training is imparted to students to enhance various aspects of communication/technical talks by group discussions, presentations and new learning outcomes ACTION 2: Students that are seen to be weak in communication skills are encouraged to undergo relevant courses and are also referred to language lab for improving their communication skills			
PO 11 : Project Management and Finance			
PO 11	1.5	1.22	Target is not Achieved Planned expert lectures on topics related to project management & finance
ACTION 1: The students are encouraged to organize and lead various technical and cultural events to improve the managerial skills. ACTION 2 : The awareness is created among the student regarding the management principles and managing projects. The relevant courses are revised and upgraded regularly to cater to latest techniques and trends in the area.			
PO 12 : Life-long Learning			
PO 12	1.5	1.27	Target is not Achieved Significant improvement in number of students clearing competitive examinations

ACTION 1: Students are learning various latest technologies like Machine Learning, IoT, Blockchain through MOOC courses to adopt self-learning and to get more opportunities in industry.. ACTION 2: Existence of chapters of professional bodies/ societies like ACM/, ISTE.. etc and events under the banner of these societies gives students opportunity to have a life long learning. The students are encouraged to take membership of these societies.

PSOs Attainment Levels and Actions for Improvement- (2021-22)

PSOs	Target Level	Attainment Level	Observations
PSO 1 : Ability to adapt to a rapidly changing environment by learning and employing new programming skills and technologies.			
PSO 1	1.5	1.54	Target Achieved
ACTION 1: Courses of lab works in which students learn to use software are included in the Curriculum. The syllabi of these courses are regularly updated. ACTION 2: Project works are encouraged that involve the usage of technical resources such as Software's towards for solving technical problems.			
PSO 2 : Ability to use diverse knowledge across the domains with interpersonnel skills to deliver the Industry need.			
PSO 2	1.5	1.35	Target is not Achieved
ACTION 1 : Students are motivated to take up the real life problems during their project work so that They can design, analyze and find solution which gives exposure to latest technologies. ACTION 2: Project works are encouraged that involve the usage of modern tools and techniques of Data Collection/ Surveying/ Analysis/ Planning.			

9 STUDENT SUPPORT SYSTEMS (50) Total Marks 50.00

9.1 Mentoring system to help at individual level (5) Total Marks 5.00

Institute Marks : 5.00

A mentoring system can be an effective way to provide support and guidance at the individual level. Here are some key steps to implementing a successful mentoring system at PACE Institute of Technology & Sciences:

i. All faculty and students are divided into mentor-mentee for every semester.
ii. Mentoring of the students is our top priority.
iii. Each mentor has been assigned 15-20 mentees in the same department. They would look into assigned student's academic progress, participation in co-curricular & extracurricular activities.
iv. At a minimum, mentors and mentees should meet regularly at least one hour per month.

Academic Guidance

i. Academic guidance is an essential component of academic success that can help students achieve their academic goals by providing support, advice, and resources. Whether it involves course selection, study skills, academic planning, career planning, or academic support, academic guidance can provide students with the tools they need to succeed academically.
ii. Sharing information on academic planners, academic schedules, and e- learning resources. Students with poor attendance are identified and it is ensures that they improve their attendance by getting counselled in presence of a HoD and mentor representatives.
iii. For a slow learner, mentor representative focuses mainly on their studies with the support of additional reading materials, model questions along with solutions.

Professional Guidance

i. The department are well equipped with knowledgeable human resources in the form of members of faculty who by keeping themselves updated of developments offer guidance to the prospective professionals in addition to the classroom teaching.
ii. Professional guidance is an essential component of career development that can help individuals achieve their career goals by providing support, advice, and resources. Whether it involves career exploration, career planning, skill development, networking, or job search strategies, professional guidance can provide individuals with the tools they need to succeed in their chosen careers.

Career Advancement

i. Career advancement is an important component of professional success that can provide individuals with opportunities for growth, satisfaction, financial rewards, recognition, and networking. By developing new skills, gaining experience, taking on new responsibilities, and pursuing opportunities for growth and development, individuals can advance their careers and achieve their professional goals.
ii. Encourage the students to take up online certification courses in order to build their careers.

Laboratory specific

i. It's important to provide specific details about the students laboratory work, including the day to day evaluation, lab record updating, and research works the tasks they have been involved in, and any additional responsibilities they have taken on. This can help future mentors or employers understand the students laboratory experience and potential for future success in the field.
ii. Irregular students in laboratory classes are counselled to attend regularly and complete backlog experiments during specified extra hours.

All-round Development

i. An all-round development mentoring system should prioritize the needs and goals of individuals, and provide a supportive and nurturing environment for personal, academic, and professional growth.
ii. This institution puts forward effort to realize all-round development and guides the student accordingly. In addition to academics, the students are encouraged to participate in literature, cultural, and sports activities which help to develop leadership qualities, decision-making abilities, team spirit, and socio-psychological awareness.

9.2 Feedback analysis and reward /corrective measures taken, if any (10) Total Marks 10.00

Institute Marks : 10.00

Student feedback analysis involves gathering and analyzing feedback from students in order to improve teaching, learning, and the overall student experience. Here are some steps for conducting a student feedback analysis:

Collect Feedback

Feedback collected from the students using surveys, focus groups, or other methods. Make sure to ask specific questions that will provide useful information for improving teaching and learning.

i. Twice a semester the feedback on all courses in collected. Along with that, department and institutional-level feedback also will be collected on facilities, the conduction of co-curricular and extracurricular activities, and maintenance of discipline in the department.
ii. The course end survey will be collected to understand the student level of course attainment.
iii. Feedback has been taken from the outgoing students as a part of the student exist survey to understand the student PO and PSO attainment status.
iv. Feedback on the curriculum and syllabus has been collected once a year from all the stakeholders
v. Student satisfaction survey will be collected once a year from all the students on Teaching Learning Evaluation.
vi. Staff exit survey is collected from the staff while he/she relieves the institution.

Analysis and Report Preparation

i. Analysing and preparing a report on a student feedback system is a valuable process that can help identify areas of strength and areas for improvement, and provide recommendations for enhancing the overall student experience.
ii. The faculty who get less than the threshold percentage of 70% are asked to give an explanation and corrective measures are taken by the HoD for improvement.
iii. The student feedback is also given weightage in the staff appraisal form.
iv. Student course end survey is used as an indirect tool for the course outcomes attainment.
v. The student exit survey uses as an indirect tool for POs, and PSOs attainment.
vi. The stakeholder feedback is utilized for framing the curriculum and syllabus.
vii. The student satisfaction survey is used for the suggestion in the TLE process.
viii. Staff exist survey is used for the improvement institution and is useful for the increase in the retention of staff.

Reward / Corrective Measures Taken

Head of the department analyzes the feedback of each faculty and will take necessary actions. Following things are considered for reward/correction measures

i. Induction programs are conducted for newly joined faculty members and continuing education programme for the experienced faculties. Those faculty who have not obtained good appraisals have a detailed discussion with the Head of the department on how to improve the teaching.
ii. Level of feedback is taken into account while evaluating the staff of promotion.
iii. Student feedback is one of the mandatory roles in the faculty award scheme.
iv. All the faculty members are evaluated yearly in even and odd semesters considering their contributions towards academic, research and administration.
v. Class committee meeting shall be conducted twice in every semester for each class. Committee members includes Head of the department, Academic Coordinator, class teacher, two faculty members teaching in the respective class, two student members from the class.

9.3 Feedback on facilities (5) Total Marks 5.00

Institute Marks : 5.00

The feedback on the facilities has been initiated by the institute. The lab and library facility, training & placement facilities and general facilities will be rated by students via a survey conducted. This feedback helps to identify areas that need improvement and make improvements together with students.

i. **Teaching & Learning, Facilities / Activities, Curriculum, Career guidance / Employability (Student Exit Survey)**

Student Exit Survey

Dear students,

We would grateful if you could fill out and submit the following exit survey. We assure you that your feedback will be treated confidentially for our continuous improvement.

Name of the student : **Branch :**

Mobile No : **Email :**

Questionnaire	Excellent (5)	Very good (4)	Good (3)	Satisfactory (2)	Poor (1)
Teaching & Learning					
Teaching & learning methods adopted were					
Overall quality of teaching & learning activities in the college is					
The learning materials and resources provided were					
Facilities / Activities					
Infrastructure, Lab facilities & Library					
Students mentoring and guidance					
Internet / wifi facility					
Extracurricular activities					
Safety & Security					
Curriculum					
The curriculum of the program is well designed and promotes learning experience of the students					
Employability is given focus in the curriculum design					
The curriculum incorporates the recent technological					

ii. **Course End Survey**

COURSE END SURVEY

Name of the Course /Code :
Name of the Faculty :
Semester/ Academic Year :
Name of the Student :
Roll Number :

Students are advised not to leave any query unanswered:

1. Support towards end exams:

I. Whether the faculty has covered all the units of the course as per the university syllabus
◯ Excellent ◯ Very good ◯ Good ◯ Average ◯ Poor

II. Study material/ handouts/references provided by the faculty after completion of the lecture
◯ Excellent ◯ Very good ◯ Good ◯ Average ◯ Poor

2. Helpful in student preparedness:

I. Providing university old question papers, material any other important questions and content beyond the syllabus that may appear in the semester Exam:
◯ Excellent ◯ Very good ◯ Good ◯ Average ◯ Poor

II. Faculty training provided to you about process of writing the course end examination of the university as per the prescribed manner.
◯ Excellent ◯ Very good Good ◯ Average ◯ Poor

3. Your confidence level to appear for the University Examination:
◯ Excellent ◯ Very good ◯ Good ◯ Average ◯ Poor

Signature of the student

* Excellent (5) Very good (4) Good (3) Average (2) Poor (1)

iii. Parents feedback

FEEDBACK FROM PARENTS

a) Name of the Parent :

b) Present Address :

Phone Number :

Email-ID :

c) Name of the Student :

d) Branch and Year :

e) Please provide your comments on the following:

1. College Infrastructure : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)
2. Teaching imparted to your ward : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)
3. Department Resources : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)
4. Faculties helpfulness : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)
5. Library Facilities : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)
6. Computing and Internet Facilities : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)
7. Sports, Extra Curricular Facilities : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)
8. Personality/Communications Skills Development Facilities : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)
9. Placement Opportunities : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)
10. Transport Facilities : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)
11. Mess/Canteen Facilities : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)
12. Feedback on ward's Progress : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)
13. Discipline standards in the College : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)
14. Overall rating of the College : □ Excellent(4) □ Good(3) □ Average(2) □ Fair(1)

e) Your Positive/Negative Comments:

f) Your suggestions for the Improvement of the Institution/Department:

Date: Signature.

iv. Faculty feedback on students

FACULTY FEEDBACK ON STUDENTS

I. Organization :

II. Name :

III. Designation :

IV. Contact No. :

V. Email Id. :

1. Our students have sound fundamental knowledge of the basic concepts of engineering.

☐ Strongly Agree ☐ Agree ☐ Disagree ☐ Strongly Disagree

2. Our students are abreast with the latest developments and are willing to upgrade their skills and learn new things

☐ Strongly Agree ☐ Agree ☐ Disagree ☐ Strongly Disagree

3. Our students exhibited professionalism and ethical attitude

☐ Strongly Agree ☐ Agree ☐ Disagree ☐ Strongly Disagree

4. Our students were good in Written and Spoken Communication Skills

☐ Strongly Agree ☐ Agree ☐ Disagree ☐ Strongly Disagree

5. They Possess Presentation Skills and Group Discussion Capability

☐ Strongly Agree ☐ Agree ☐ Disagree ☐ Strongly Disagree

6. Rate the Overall performance of the Student / Students from our Campus (Highest 1 & Lowest 5)

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Suggestions/ Recommendations

Signature

Questionnaire	Excellent (5)	Very good (4)	Good (3)	Satisfactory (2)	Poor (1)
Teaching & Learning					
Teaching & learning methods adopted were					
Overall quality of teaching & learning activities in the college is					
The learning materials and resources provided were					
Facilities / Activities					
Infrastructure, Lab facilities & Library					
Students mentoring and guidance					
Internet / WiFi facility					
Extracurricular activities					
Safety & Security					
Curriculum					
The curriculum of the program is well designed and promotes learning experience of the students					
Employability is given focus in the curriculum design					
The curriculum incorporates the recent technological development in the area					
Career guidance / Employability					
The guidance received for employment / higher studies / Entrepreneurship					

v. Course-End Survey

COURSE END SURVEY

Name of the Course /Code :

Name of the Faculty :

Semester/ Academic Year :

Name of the Student :

Roll Number :

Students are advised not to leave any query unanswered:

1. Support towards end exams:

I. Whether the faculty has covered all the units of the course as per the university syllabus

◯ Excellent ◯ Very good ◯ Good ◯ Average ◯ Poor

II. Study material/ handouts/references provided by the faculty after completion of the lecture

◯ Excellent ◯ Very good ◯ Good ◯ Average ◯ Poor

2. Helpful in student preparedness:

I. Providing university old question papers, material any other important questions and content beyond the syllabus that may appear in the semester Exam:

◯ Excellent ◯ Very good ◯ Good ◯ Average ◯ Poor

II. Faculty training provided to you about process of writing the course end examination of the university as per the prescribed manner.

◯ Excellent ◯ Very good ◯ Good ◯ Average ◯ Poor

3. Your confidence level to appear for the University Examination:

◯ Excellent ◯ Very good ◯ Good ◯ Average ◯ Poor

Signature of the student

* Excellent(5) Very good(4) Good (3) Average (2) Poor (1)

vi. Feedback of students on Department/ Institution

0 (Poor)	1 (Average)	2 (Good)	3 (VeryGood)	4 (Excellent)

Sl. No	Particulars	Rating
1.	Ambience & facilities	
2.	Conduction of co-curricular and extracurricular activities	
3.	Maintenance of discipline	
4.	Communication about activities and scholarships	
5.	Any other remarks	

vii. Feedback of students on faculty:

Rate 0-4:

0 (Poor)	1 (Average)	2 (Good)	3 (VeryGood)	4. (Excellent)

	Particulars	Course-1	Course-2	Course-3	Course-4	Course-5
S.No	Syllabus of the course					
1	Subject knowledge of the faculty					
2	Time sense of the faculty (class punctuality, syllabus coverage, Experiments completion if lab					

3	Communication skills of the faculty (in terms of articulation and comprehensibility)					
4	Accessibility of the faculty in and out of the class (includes availability of the teacher to motivate further study and discussion outside class)					
5	Usage of innovative techniques (constructive, collaborative, etc like student centric methods) & ICT tools (i.e. Projectors, Online tools .... etc)					
6	Class controlling by the faculty					
7	Any other remarks					

Student Exit Survey

Dear students,

We would grateful if you could fill out and submit the following exit survey. We assure you that your feedback will be treated confidentially for our continuous improvement.

Name of the student : **Branch :**

Mobile No : **Email :**

Questionnaire	Excellent (5)	Very good (4)	Good (3)	Satisfactory (2)	Poor (1)
Teaching & Learning					
Teaching & learning methods adopted were					
Overall quality of teaching & learning activities in the college is					
The learning materials and resources provided were					
Facilities / Activities					
Infrastructure, Lab facilities & Library					
Students mentoring and guidance					
Internet / wifi facility					
Extracurricular activities					
Safety & Security					
Curriculum					
The curriculum of the program is well designed and promotes learning experience of the students					
Employability is given focus in the curriculum design					
The curriculum incorporates the recent technological					

FEEDBACK FROM PARENTS

a) Name of the Parent :

b) Present Address :

Phone Number :

Email-ID :

c) Name of the Student :

d) Branch and Year :

e) Please provide your comments on the following:

1. College Infrastructure : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)
2. Teaching imparted to your ward : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)
3. Department Resources : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)
4. Faculties helpfulness : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)
5. Library Facilities : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)
6. Computing and Internet Facilities : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)
7. Sports, Extra Curricular Facilities : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)
8. Personality/Communications Skills Development Facilities : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)
9. Placement Opportunities : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)
10. Transport Facilities : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)
11. Mess/Canteen Facilities : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)
12. Feedback on ward's Progress : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)
13. Discipline standards in the College : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)
14. Overall rating of the College : ☐ Excellent(4) ☐ Good(3) ☐ Average(2) ☐ Fair(1)

e) Your Positive/Negative Comments:

f) Your suggestions for the Improvement of the Institution/Department:

Date: Signature.

FACULTY FEEDBACK ON STUDENTS

I. Organization :

II. Name :

III. Designation :

IV. Contact No. :

V. Email Id. :

1. Our students have sound fundamental knowledge of the basic concepts of engineering.

☐ Strongly Agree ☐ Agree ☐ Disagree ☐ Strongly Disagree

2. Our students are abreast with the latest developments and are willing to upgrade their skills and learn new things

☐ Strongly Agree ☐ Agree ☐ Disagree ☐ Strongly Disagree

3. Our students exhibited professionalism and ethical attitude

☐ Strongly Agree ☐ Agree ☐ Disagree ☐ Strongly Disagree

4. Our students were good in Written and Spoken Communication Skills

☐ Strongly Agree ☐ Agree ☐ Disagree ☐ Strongly Disagree

5. They Possess Presentation Skills and Group Discussion Capability

☐ Strongly Agree ☐ Agree ☐ Disagree ☐ Strongly Disagree

6. Rate the Overall performance of the Student / Students from our Campus (Highest 1 & Lowest 5)

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Suggestions/ Recommendations

Signature

9.4 Self-Learning (5)

Total Marks 5.00

Institute Marks : 5.00

A. Scope for self-learning

Self-learning refers to the process of acquiring knowledge or skills through independent study, research, and practice, without the guidance or supervision of a teacher or instructor.

PACE Institute of Technology & Sciences provides some of the areas where self-learning can be particularly useful include:

- Academic subjects
- Technical skills
- Life skills
- Extracurricular activities

B. The institution needs to specify the facilities, materials for learning beyond syllabus, Webinars, Podcast, MOOCs etc. and demonstrate its effective utilization

Providing facilities, materials, and opportunities for learning beyond the syllabus is essential for promoting self-learning and ensuring that students are well-prepared for their future careers.

PACE Institute of Technology & Sciences provides some steps that institutions can take to specify and demonstrate the effective utilization of these resources:

- Self-learning courses under the category of elective courses wherein the students are provided with the flexibility of choosing courses available in online portals like MOOCs and popular e-learning portals like NPTEL SWAYAM, Spoken tutorials, EduSkills, Codetantra, NASSCOM, Coursera, Infosys Spring Board, CISCO, Microsoft Certification courses etc…
- To enable the students to effectively utilization the library and to motivate for self-learning weekly one library hour is allocated in the timetable.

9.5 Career Guidance, Training, Placement (10)

Total Marks 10.00

Institute Marks : 10.00

A. Availability of career guidance facilities

Career guidance facilities are essential for students to make informed decisions about their future careers and to develop the skills and knowledge necessary to achieve their goals.

PACE Institute of Technology & sciences can make some ways of career guidance facilities available to their students:

- Soft skill training programmes from first year onwards
- Training on employability skills.
- Online tests to assess the students.
- Conduct of motivation lectures and mock interviews
- Technical training & guest lectures
- Enabling the students to resume preparation
- Arranging customized industry– oriented training
- Entrepreneurship and higher studies awareness programs
- Conduct of mock interviews.

B. Counseling for higher studies (GATE/GRE, GMAT, etc.)

Counseling for higher studies is an essential service that institutions can offer to their students who are considering pursuing advanced degrees or further education.

PACE Institute of Technology & sciences provides some ways in which institutions can provide counseling for higher studies:

- Workshops and Seminars
- Mock tests
- Practice materials
- Online Courses
- Personalized Coaching

C. Pre-placement training

Pre-placement training is a crucial service that institutions can offer to their students to help them prepare for job interviews and employment opportunities.

PACE Institute of Technology & sciences provides some ways in which institutions can provide pre-placement training:

- Resume building
- Interview skills training
- Soft skills training
- Online resources

D. Placement process and support

The placement process can be a challenging experience for students. Institutions can provide critical support to students by maintaining a company and job database, setting up a dedicated placement cell, offering career counseling, providing interview preparation services, and leveraging their alumni network.

PACE Institute of Technology & sciences provides some ways in which institutions can offer support to their students in the placement process:

- Company and job database
- Placement cell
- Career counseling
- Interview preparation
- Alumni network

9.6 Entrepreneurship Cell

Total Marks 5.00

Institute Marks : 5.00

A. Entrepreneurship initiatives

Entrepreneurship initiatives are a critical aspect of an institutions support system for students who want to start their own businesses.

PACE Institute of Technology & Sciences provides some ways in which institutions can offer entrepreneurship initiatives:

- Invited motivational talks
- Awareness programs on new business avenues
- Celebration of world's Entrepreneurship day
- Entrepreneurship courses
- Funding opportunities
- Guest lecture/Workshops with MOU companies

B. Data on students benefitted

S.No	Academic Year	Number of Entrepreneurs
1	2021-2022	2
2	2020-2021	3
3	2019-2020	4

9.7 Co-curricular and Extra-curricular Activities

Total Marks 10.00

Institute Marks : 10.00

A. Availability of sports and cultural facilities

Availability of sports and cultural facilities is an important aspect of an institutions support system for students.

PACE Institute of Technology & sciences provides some ways in which institutions can provide sports and cultural facilities:

i. Sports facilities: A variety of sports facilities such as outdoor and indoor sports fields, and fitness centers. These facilities can be used for a range of sports activities such as cricket, football, basketball, badminton, Volleyball, and more.

ii. Sports events: organize sports events such as intercollegiate tournaments, intra-college matches, and sports meets. These events can provide students with opportunities to showcase their skills and compete with other institutions.

iii. Cultural facilities: Institutions can offer facilities for cultural activities such as music, dance, drama, and other performing arts. These facilities can include theaters, and auditoriums etc

iv. Cultural events: Institutions can organize cultural events such as music festivals, dance competitions, and drama competitions.

B. NCC, NSS and other clubs

NCC and NSS are both student organizations that operate in PACE Institute of Technology & sciences.

· The National Cadet Corps (NCC) is a youth development movement that aims to train young people in discipline, leadership, and patriotism through military-style training.

· The National Service Scheme (NSS) is a community service program that encourages students to participate in various activities that contribute to the development of society. The NSS aims to develop the personality of students through community service, promote national integration and social harmony, and encourage students to work towards the betterment of society. NSS activities may include tree planting, blood donation camps, health and hygiene campaigns, and awareness programs on social issues.

· Clubs and societies: Institutions can establish and support clubs and societies for sports and cultural activities. These clubs and societies can provide students with opportunities to meet other students who share similar interests and engage in sports and cultural activities together.

C. Annual student's activities

Annual student activities are an important part of the academic calendar in PACE Institute of Technology & sciences. These activities provide students with opportunities to showcase their talents, develop new skills, and build their confidence.

PACE Institute of Technology & sciences conducts some common annual student activities:

- Annual sports day
- Cultural festival
- Science fair
- Debate competition
- Quiz competition
- Annual day celebration
- Charity events
- Talent show
- Career fair

10 GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120) Total Marks 120.00

10.1 Organization, Governance and Transparency (55) Total Marks 55.00

10.1.1 State the Vision and Mission of the Institute (5) Institute Marks : 5.00

Vision:

Our vision is to impart futuristic technical education transforming the students technically superior, ethically strong and self disciplined to serve the nation as a valuable resource.

Mission:

M1	To inculcate quality education by implementing innovative teaching-learning methods and state-of-the-art facilities.
M2	To enrich the intellectual know-how, credibility and integrity of the students to necessitate industry.
M3	To recognize as scholarly and influential leaders in engineering education, to develop human power with creativity, advanced technology and passion for the betterment of future nation.

To realize the vision, the above mission statements have been established by taking into account, the contemporary Industry requirements, Technical skills needed, Technological & Product development, Ongoing research & development, Industry-Institute interaction, Twenty-first century skills and Societal needs.

To sensitize all the stakeholders about availability of the Vision and Mission statements, display boards and Sign boards are arranged in the prominent locations across the campus. In addition to this, Vision and Mission statements are made available to the stakeholders through:

- Institute website
- Principal Chamber
- Each of the departments
- Library
- Institute-level documents
- All major central facilities

10.1.2 Availability of the Institutional Strategic Plan and its Effective Implementation and Monitoring (25) Institute Marks : 25.00

Pace Institute of Technology and Sciences has formulated a dynamic strategic plan to achieve the Institutional Goals in this competitive world. Strategic Plan includes the targets and the strategies to achieve the targets. The plan is formulated based on the SWOC analysis of the institute. All the staff are fully committed to deliver high quality standards to the students by continuous learning and enhancing their skills.

The following are the targets that the strategic plan has identified for the upcoming years:

STRATEGIC PLAN IDENTIFIES THE FOLLOWING ROAD TARGETS FOR AY 2018-2028

- Implementation of Outcome Based Education.
- Establish at least 2 Research Centers by 2023.
- To attain NAAC A++ grade during 2nd Cycle Accreditation.
- To be ranked among TOP 200 engineering institutions in NIRF Ranking.
- To secure TOP 50 position in ARIIA Ranking 2025.
- Promote industry-institution collaboration with top MNCs.
- Establish Centers of Excellence in various departments.
- Incubate successful start-ups creating innovative products and business models using the knowledge and technologies developed by the Institution.
- Provide an invigorating work environment for faculty and staff.
- Improve the involvement of alumni in all the aspects of Institutions development by collaborating with them in placements, guest lecture, mentoring students in various projects, mentoring incubate, research and development, consultancy.
- Collaboration with various industries in the field of Research & Development and consultancy.
- Collaboration with Institutions around the world to promote quality higher education and for supporting students/faculty exchange programmes.

In view of achieving the above strategic plan the following key strategic issues are focused:

- **Create an institutional culture which equips the students with the skills required for the industry**

- Training programs are conducted for improving the communication skills and interpersonal skills from the first year onwards.
- Induction program is conducted for the students in the first year.
- Motivational programs are being conducted by the industry experts and successful alumni.
- Offers minors degree with inter-disciplinary open electives
- Internships for hands-on experience and community service are encouraged for the students.
- Student chapters are established for professional bodies and continuous activities are organized under the student chapters to enhance the leadership qualities.
- Entrepreneur Development Cell (EDC) works continuously to promote entrepreneurship.
- Add-on courses on latest technologies are conducted to enhance the placement opportunities.
- Students are encouraged to complete self-learning courses through MOOCs/Swayam NPTEL.

- **Continuous capacity building of the faculty and Promoting research culture among the students and faculty:**

- Faculty development programs are organized by inviting subject experts from premier institutions and industry to enhance their technical skills and research skills.
- Training on course design, question paper setting and teaching pedagogy in-line with OBE philosophy are being conducted.
- All the faculty are encouraged to attend ATAL FDPs to improve their skills and expertise in latest technologies.
- Encouraging faculty members and students to participate in workshops, conferences and seminars by providing financial support
- Incentives for quality journal publications and sponsored research projects are given.
- Encouragement to pursue the Ph.D. (Part time, Full time) by providing support in terms of research facilities and academic leaves.
- Students are encouraged to participate in innovative project contests
- Students were encouraged to develop prototypes and apply for Patents

10.1.3 Governing body, administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10) Institute Marks : 10.00

Governing body: Governing body is formulated to coordinate with all Academic and Administrative activities of the college.

Term: The Governing Body shall be reconstituted every three years except in the case of UGC nominee who shall have a term of five years.

Meetings: Meetings of the Governing Body shall be held at least twice a year.

Functions of the Governing Body: Subject to the existing provision in the bye-laws of respective college and rules laid down by the state government/parent university, the Governing Body shall:

- Guide the college while fulfilling the objectives for which the college has been granted autonomous status.
- Institute scholarships, fellowships, studentships, medals, prizes and certificates on the recommendations of the Academic Council
- Approve new programmes of study leading to degrees and/or diplomas.
- All recruitments of Teaching Faculty/Principal shall be made by the Governing Body/state government as applicable in accordance with the policies laid down by the UGC and State Government from time to time.
- To approve annual budget of the college before submitting the same at the UGC.
- Perform such other functions and institute committees, as may be necessary and deemed fit for the proper development of the college

Members of Governing Body:

S. No	Details of the Member	Representative in GB
1	Sri. M. Venu Gopala Rao Chairman, Srinivasa Educational Society	Chairman, Management
2	Sri. M. Sridhar Secretary & Correspondent, Srinivasa Educational Society	Member, Management
3	Sri. M. Vasu Babu Vice-Chairman, Srinivasa Educational Society	Member, Management
4	Smt. M. Padma Treasurer, Srinivasa Educational Society	Member, Management
5	Sri. M. Ravindra Joint Secretary, Srinivasa Educational Society	Member, Management
6	Dr. R.N. Yadav Professor, Dept of ECE, NIT, Bhopal	Member-UGC Nominee
7	Dr. S. Narayana Reddy Principal, SVU College of Engineering, Tirupati, AP	Member- State Govt. Nominee
8	Dr. Ch. Srinivas Rao Professor in ECE, UCEN, JNTUK, Kakinada	Member- University Nominee
9	Sri P. Siva Prasad CEO, Mydentistchoice.Com, Hyderabad	Member- Industrialist
10	Sri K.V.C Krishna Chartered Accountant, Flat No. 103, B-Block, Pavani Homes, Hyderabad	Special Invitee
11	Dr. G. V. K. Murthy Principal, PACEITS	Member- Ex-Officio
12	Dr. R. Veeranjaneyulu, Prof in CSE, PACE ITS	Member - Teacher
13	Dr. T. Mary Jones Professor & Head, Dept. of MBA, PACEITS	Member - Teacher

Academic Council:

Academic Council is formulated to approve the course structure and syllabus formulated by Board of Studies and monitors the overall performance of the institution. It comprises members nominated by JNTUK and Governing body, Principal, Deans and Head of the Departments. The body meets twice a year.

Functions:

- To scrutinize and approve the proposals with or without modification of the boards of studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, methods, procedures relevant thereto etc., provided that where the Academic Council differs on any proposal, it will have the right to return the matter for reconsideration to the Board of Studies concerned or reject it, after giving reasons to do so.
- To make regulations regarding the admission of students to different programs of study in the college keeping in view the policy of the Government.
- To make regulations for sports, extra-curricular activities, and proper maintenance and functioning of the playgrounds and hostels.
- To recommend to the Governing Body proposals for the institution of new programs of study.
- To recommend to the Governing Body institution of scholarships, studentships, fellowships, prizes, and medals, and to frame regulations for the award of the same.
- To advise the Governing Body on suggestions(s) pertaining to academic affairs made by it.
- To perform such other functions as may be assigned by the Governing Body.

Members:

The Academic Council consists of the following members,

1. The Principal (Chairman)

2. All the Heads of Departments in the college

3. Four teachers of the college representing different categories of teaching staff by rotation on the basis of seniority of service in the college.

4. Not less than four experts/academicians from outside the college representing such areas as

Industry, Commerce, Law, Education, Medicine, Engineering, Sciences etc., to be nominated by the Governing Body.

5. Three nominees of the university not less than Professors.

6. A faculty member nominated by the Principal (Member Secretary).

Term: The tenure of nominated members shall be three years.

BOARD OF STUDIES:

A Board of Studies is formulated for each department to prepare the course structure and syllabus. They monitor regularly the performance of the department. They meet at least twice for a year and guide the department respectively.

Functions and Responsibilities

- To prepare syllabi for various courses keeping in view the objectives of the college, interest of the stakeholders, and national requirements for consideration and approval of the Academic Council
- To suggest methodologies for innovative teaching and evaluation techniques
- To suggest panel of names to the Academic Council for appointment of examiners
- To coordinate research, teaching, extension and other academic activities in the department/college.

In addition to internal members BoS consist of external members as mentioned below:

- One Expert from Parent University
- Two Expert from Outside Parent University
- One Expert from Industry
- One Meritorious Alumni

FINANCE COMMITTEE

Finance Committee is formulated to estimate budgets and monitor the financial transactions and the financial status of the institution.

Functions:

- To estimate budget relating to the grant received/receivable from UGC, and income from fees, etc. collected for the activities to undertake the scheme of autonomy
- To verify Cash inflows and outflows in all bank accounts
- To verify advances given and outstanding payments totals, receipts and payments
- To maintain all ledger books, preparation of salary statements
- To audit accounts for the above

Administrative set up: Following diagram depicts the brief administrative set up and the glance of committees in order to create and enhance the infrastructure that facilitate teaching and learning process.

PACEITS has a decentralized mechanism for delegating authority and providing operational autonomy to all the functionaries to work towards decentralized governance. It includes the Board of Governors, Academic council, Secretary and Correspondent, Principal, Board of Studies, Director, Dean Academics, Dean Student Affairs, Dean Research & Development, Administrative Officer, Dean Training & Placements, Controller of examinations and HOD's for effective Governance and participative management. Top management in consultation with the Board of Governors and Secretary & Correspondent gives strategic directions to the Principal regarding various future initiatives focusing broadly on the Vision and Mission of the institution. The principal prepares the action plan keeping in view the short-term and long-term goals of the institution and gets it executed through IQAC, various Deans, heads of the Departments, and other committees. Principal with various HODs nominated institute-level committees to the faculty members. The department-level committees are nominated by the respective Heads of Departments. All Administrative matters including Finance, campus maintenance, Canteen, Hostel Management, and scholarship is handled by Chief Administrative Officer. Student examinations were conducted by the Controller of Examination and Senior/Junior supervisors.

The service rules, policies and procedures are available in the website and are circulated to all the staff members. The meetings are conducted regularly and the minutes of the meeting with attendee's signature is filed properly. Every meeting starts with the review of the previous meeting minutes and the action taken on the discussed points.

10.1.4 Decentralization in working and grievance redressal mechanism (5) Institute Marks : 5.00

List the names of the faculty members who have been delegated powers for taking administrative decisions. Mention details in respect of decentralization in working. Specify the mechanism and composition of grievance redressal cell including Anti Ragging Committee & Sexual Harassment Committee.

GRIEVANCE REDRESSAL COMMITTEE

Grievance Redressal committee is formulated to investigate the complaints received from the students and faculties.

Functions:

- To formulate the policy to investigate and review complaints or grievances of students and faculties.
- To create awareness of availability of members for students and faculties to report grievances.
- To investigate the cause of grievances to ensure effectual solution.

S. No	Name	Designation
1	Dr. G V K Murthy	Chairmen
2	Mr. G Ramesh Babu	Convener
3	Dr. R Veeranjaneyulu	Member
4	Dr. A Seshagiri Rao	Member
5	Dr. D Suresh	Member
6	Dr. D Anil Kumar	Member
7	Dr. M Rajasekhar	Member
8	Mr. P Siva Prasad	Member
9	Mr. B Nagaraju	Member
10	Dr. G Kondaiah	Member
11	Mr. G Ganesh Naidu	Member
12	Dr. T Mary Jones	Member
13	Mr. M Raveendra	Member

ANTI-RAGGING COMMITTEE: Anti ragging committee is formulated to ensure a safe environment for first years that enter into the campus with high aspirations. This committee encourages healthy relationships between the students of different years and branches.

Functions of Anti ragging Committee:

- To initiate timely action against erring students of Discipline
- To maintain records of the cases investigated
- To sensitize students about the evils of ragging and its prevention in the College Campus by organizing talks/ programmes
- To address complaints about ragging as per the Govt. and University procedures

Composition of the committee:

S. No	Name	Designation
1	Dr. G. V. K. Murthy	Chairman
2	Mr. G. Ramesh Babu	Convener
3	Dr. R. Veeranjaneyulu	Member
4	Dr. D. Anil Kumar	Member
5	Ch. Ravindra Babu	Member
6	Dr. A. Seshagiri Rao	Member
7	Mrs. N. Vaishnavi	Member
8	Mr. K. Venkateswarlu	Member
9	Mr. B. Suresh Babu	Member
10	MR. S. Ch. Kantha Rao	Member
11	Mr. M. Sivudu	Member
12	Mr. S. Anka Rao	Member
13	Mr. Y. Srinivasa Reddy	Member
14	Mr. M. Naga Bhaskar	Member
15	Mr. I. Madhusudhan	Member
16	Ms. Sk. Heena Kauser	Member

INTERNAL COMPLAINTS COMMITTEE (SEXUAL HARASSMENT COMMITTEE): Internal compliance committee is formulated to ensure safe campus for girl students and lady staff members. The committee creates awareness programs for the girls about the presence of the cell and gives assurance to them that they will support them in all circumstances.

Functions:

- Registering the complaint and Taking necessary action to support the victim
- To receive the complaints regarding sexual harassment
- To investigate and submit the report against the complaints filed
- To educate all about sexual harassment and impacts

Composition of the committee:

S. No	Name	Designation
1	Mrs. N. Vaishnavi, Assoc. Prof, ECE	Convener

2	Mrs. K. Jeevana, Asst. Prof, EEE	Member
3	Mrs. P. Rama Lingamma, Asst. Prof, IT	Member
4	Mrs. Ch. Anusha, Asst. Librarian, Library	Member
5	Mrs. D. Annapurna, Lab Programmer, CSE	Member
6	Mrs. BathiniArunakumari, External Member	Member
7	Ms. Sk. Amrin, UG Student, ECE	Member
8	Ms. Tanneru Sai Mahalakshmi, PG Student, MBA	Member

The Grievance Redressal Committee is formulated to investigate the complaints received from the students and faculties. The committee addresses the problems and ensures that the students are comfortable with all the teaching and learning processes and administrative procedures of the institution. The committee encourages the students and faculty members to share their grievances freely and on receiving the complaint, the committee investigates the problem and redresses it as soon as possible.

10.1.5 Delegation of financial powers (5) Institute Marks : 5.00

PACE Institute of Technology and Sciences has a well-established financial system. For the smooth functioning of the institutional activities the financial powers are delegated to different levels i.e. Secretary& Correspondent, the Principal, and the Heads of different departments.The principal can sanction any recurring or non-recurring amount which has prior approval in the budget.

Other than the prior approved budget items

To address any emergency situation Heads of the department hold hand cash of ten thousand. For any emergency requirements, the principal can sanction an amount of one lakh. The amount of more than one lakh can be sanctioned by the Secretary and Correspondent.

10.1.6 Transparency and availability of correct/unambiguous information in public domain (5) Institute Marks : 5.00

- All the information is available on the college website for the stakeholders. The right to Information Committee is also available in the institution to provide any information sought by any of the stakeholders.
- All the information related to staff and students is also made available on the website and E-CAP.
- All the mandatory disclosures to be displayed on the website are updated as per the instructions of AICTE/AISHE.

10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (15) Total Marks 15.00

:

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 2022-2023

Total Income 202657090.04				Actual expenditure(till…): 198790890			Total No. Of Students 5691
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
198520200	0	0	4136890.04	189400590	9390300	0	34930.75

Table 2 - CFYm1 2021-2022

Total Income 194745749.46				Actual expenditure(till…): 192045749			Total No. Of Students 5245
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
190022936.66	2614510	0	2108302.80	185854976	6190773	0	36615.01

Table 3 - CFYm2 2020-2021

Total Income 183174271.23				Actual expenditure(till…): 178620223			Total No. Of Students 4855
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
178420366.85	0	1845785	2908119.38	176491113	2129110	0	36790.98

Table 4 - CFYm3 2019-2020

Total Income 167104584				Actual expenditure(till…): 152520345			Total No. Of Students 4556
Fee	Govt.	Grants	Other sources(specify)	Recurring including salaries	Non Recurring	Special Projects/Anyother, specify	Expenditure per student
164826053	0	0	2278531	151037107	1483238	0	33476.81

Items	**Budgeted in 2022-2023**	**Actual Expenses in 2022-2023 till**	**Budgeted in 2021-2022**	**Actual Expenses in 2021-2022 till**	**Budgeted in 2020-2021**	**Actual Expenses in 2020-2021 till**	**Budgeted in 2019-2020**	**Actual Expenses in 2019-2020 till**
Infrastructure Built-Up	2000000	169477(	150000(	1264982	200000(	1959402	150000(	6971444
Library	800000	645377	400000	171367	500000	0	100000(	704129
Laboratory equipment	9500000	939030(	650000(	6190773	270000(	2129110	180000(	148323(
Laboratory consumables	500000	461362	100000(	890019	250000	211817	800000	760762
Teaching and non-teaching stal	1450000	1440202	140000(	1364053	125000(	1194641	100000(	9893894
Maintenance and spares	4000000	3007013	520000(	5025890	250000(	2259283	5000000	480331(
R&D	1200000	104738(	120000(	1061590	550000	483325	900000	850295
Training and Travel	2000000	1672924	100000(	842673	200000(	1893021	220000(	213014(
Miscellaneous Expenses*	150000	91242	150000	140162	100000	92178	100000	97850
Others, specify	1770000	2150737	240000(	2866812	285170(	3249330	337650(	3578021
Total	**200850000**	**198790890**	**194450000**	**192045749**	**182117000**	**178620223**	**160565000**	**152520345**

10.2.1 Adequacy of budget allocation (5)

Institute Marks : 5.00

The institute collects the budget proposals from all the departments and cells before starting the financial year. The departments submit the budget proposals considering all the recurring (i.e. lab maintenance/repairs) and non-recurring (new purchases) requirements. All cells submit the proposals considering all their requirements. The Institute finance committee chaired by the principal prepares a draft budget statement considering the proposals from the departments, cells, salary requirements, and funds available. After the preparation of a draft budget, a review meeting will be conducted with all departments and cell heads with the principal and management. In this meeting, all will justify their proposals. After finalizing the budget values, it will be presented to the governing body for final approval.

10.2.2 Utilization of allocated funds (5) Institute Marks : 5.00

The allocated funds are utilized properly and are adequate as per the Academic requirements. The budget funds are utilized on a priority basis as per the requirements of each department based on the availability of funds. The finance committee monitors the utilization of allocated funds. Major heads are spent directly from the account section. However, all recurring and non-recurring expenditure of institute/departments is met in full (including salaries, lab consumables, miscellaneous expenditure, etc.) After the completion of every financial year, the budget will be audited by an external auditor to understand the reliability of budget utilization. The institution carefully monitors the expenses such that the necessities are met without affecting the smooth working of the institution. The management has been very efficiently and effectively doing this over the past several years and the institution never had any serious budget crunch that affected the normal functioning of the institution.

10.2.3 Availability of the audited statements on the institute's website (5) Institute Marks : 5.00

PACE ITS follows good governance. All the College accounts are taken care of by the accounting department, which will be audited periodically (every year) by Auditors. The budget allocation and utilizationare monitored by the finance committee. Supplementary allocations are made in special cases if needed.

The audited statements are available on the institute website on the finance committee webpage.

10.3 Program Specific Budget Allocation, Utilization (30) Total Marks 30.00

:

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 2022-2023

Total Budget 2723000		Actual expenditure (till…): 2526587		Total No. Of Students 617
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
2150000	573000	2001650	524937	4094.95

Table 2 :: CFYm1 2021-2022

Total Budget 3670000		Actual expenditure (till…): 3450590		Total No. Of Students 578
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
2850000	820000	2712614	737976	5969.88

Table 3 :: CFYm2 2020-2021

Total Budget 1663000		Actual expenditure (till…): 1493700		Total No. Of Students 521
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1410000	253000	1326860	166840	2866.99

Table 4 :: CFYm3 2019-2020

Total Budget 1958000		Actual expenditure (till…): 1778519		Total No. Of Students 429
Non Recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1100000	858000	1038000	740519	4145.73

Items	Budgeted in 2022-2023	Actual Expenses in 2022-2023 till	Budgeted in 2021-2022	Actual Expenses in 2021-2022 till	Budgeted in 2020-2021	Actual Expenses in 2020-2021 till	Budgeted in 2019-2020	Actual Expenses in 2019-2020 till
Laboratory equipment	1500000	137665(	220000(	2087614	760000	701860	450000	413000
Software	650000	625000	650000	625000	650000	625000	650000	625000
Laboratory consumable	150000	145287	370000	360726	45000	32500	600000	507463
Maintenance and spares	25000	22150	175000	158000	28000	25000	50000	45856
R & D	280000	252000	160000	125000	130000	65000	120000	108200
Training and Travel	100000	90500	90000	76250	36000	32340	48000	47000
Miscellaneous Expenses*	18000	15000	25000	18000	14000	12000	40000	32000
Total	**2723000**	**2526587**	**3670000**	**3450590**	**1663000**	**1493700**	**1958000**	**1778519**

10.3.1 Adequacy of budget allocation (10) Institute Marks : 10.00

Before the beginning of every financial year, the institution's finance committee chaired by the principal invites budget proposals from various departments.

The department budget coordinator collectsinformation regarding budget proposals from the staff and lab in-charges. The staff and lab in-charges submit their proposals considering various factors lab equipment, software, lab consumables, maintenance and repairs, travel and training, etc.

The department budget coordinator prepares a draft budget considering all the proposals.

Before submitting the budget proposal to the institute finance committee, the department conducts a meeting chaired by the Head of the department to look into the budget proposals.

After the Head of the Department is satisfied with all the proposals, it is presented to Program Assessment and Quality Improvement Committee (PAQIC) for suggestions.

After incorporating all feasible suggestions, the budget is submitted to the institute's finance committee. After receiving all the budget proposals, the institute finance committee conducts a review meeting to consider the justificationfor department proposals.

After considering all the department requirements and funds available the finance committee sanctions head-wise amounts to the department.

10.3.2 Utilization of allocated funds (20) Institute Marks : 20.00

The department utilizes the funds allotted for various items effectively. The head of the department monitors the utilization of recurring and nonrecurring funds. The head of the department frequently reviews the funds utilized to estimate the remaining work to be carried on. In contingency, the head of the department holds cash of ten thousand, for which after the utilization, bills will be submitted to the Central Administrative office for transparency in transactions. The department also presents the budget sanctioned and utilized in the Program Assessment and Quality Improvement committee (PAQIC) for review. At the end of every financial year, the institutional budget which is a consolidation of all departments is audited by external auditors, andaninternal financial audit is conducted to estimate the appropriateness of the funds utilized.

10.4 Library and Internet (20) Total Marks 20.00

10.4.1 Quality of learning resources (hard/soft) (10) Institute Marks : 10.00

- Availability of relevant learning resources including e-resources and Digital Library (7)

  Pace Institute of Technology and Sciences has a spacious and comfortable library to facilitate the student's and staff for their learning. Pace Library provides all the required learning resources including e-resources and Digital Library. It is filled with many volumes of books, print and online journals, e-books, magazines, CDs & DVDs, M. Tech Dissertations, etc., The library has access to e-journals in IEEE-ASPP, DELNET, IEI, and N-LIST(INFLIBNET).

- Accessibility to students: The library has provided all the facilities for the students and faculty to enhance their learning. The library is available from morning 8.00 AM to evening 8.00 PM for the students and staff. It is available on Sundays and holidays from morning 9.00 AM to evening 1.00 PM.
  - Circulation Service
  - Reference Service
  - Clipping Service
  - Internet Service
  - Reprographic Service
  - OPAC

10.4.2 Internet (10) Institute Marks : 10.00

Internet Is provided by INRI Communications and BSNL. The available bandwidth is 150 MBPS from INRI Communications and 40 MBPS and 40 MBPS from two lines of BSNL. Wi-fi facility is available throughout the campus by INRI Communications. The internet is made available through LAN connections for all the labs, offices, and digital libraries and a wi-fi facility is available for all common areas in the campus like class rooms, corridors and ground. The internet is highly secured with efficient Firewall Sophos XG 330.

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)

Program should specify 2-4 program specific outcomes.

PSO1	Ability to adapt to a rapidly changing environment by learning and employing new programming skills and technologies.
PSO2	Ability to use diverse knowledge across the domains with interpersonnel skills to deliver the Industry need.

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 hall 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 willbe 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. G. V. K. Murthy
Designation : Principal
Signature :

Seal of The Institution :

Place : Ongole
Date : 01-04-2023 19:03:02