



College Code : T8
ESTD: 2005

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, Hyderabad, R.R. Dist. 501 512.

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2.6.1 Attainment of Program outcomes and course outcomes are evaluated by the institution.

S.NO	Subject	Page No.
1	Display Material of Vision, Mission, COs, POs and PEOs	2
2	Attainment Procedure of POs and COs with Sample data	15
3	Sample CO-PO attainment of an Academic Year	36
4	Sample CO-PSO attainment of an Academic Year	42

Study Report of ANNAMACHARIYA INSTITUTE OF TECH &SCIENCES


PRINCIPAL
Annamacharya Institute of
Technology & Sciences
Piglipur (V), Batasingaram (Dist)
446400000 (M), R.R. Dist. 501-501 512



ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Piglipur, Batasingaram Panchayath, Hayath Nagar Mandal, Hyderabad, R.R. Dist. 501 512.

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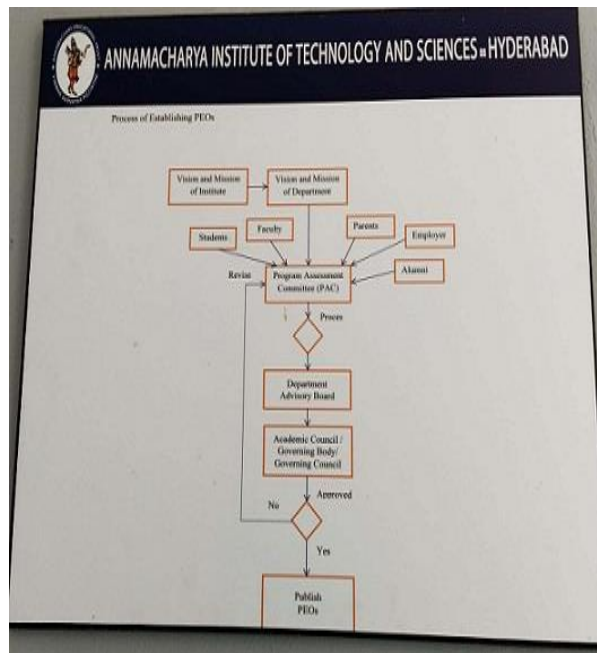
ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES
(Approved by AICTE, New Delhi) (Affiliated to JNTUH, Hyderabad) (Accredited by NAAC)
Hyderabad (PIN-501512)

VISION

We, at AITH strive to inculcate a sound knowledge of Engineering and Management in students along with social responsibility and ethical practices, to enable them to face impending challenges so as to carve a niche for the country in the global arena.

MISSION

"AITH mission is to create committed and self motivated Engineers and Managers, equipped to offer innovative solution and unconditional service for benefit of the society and the world at the large."



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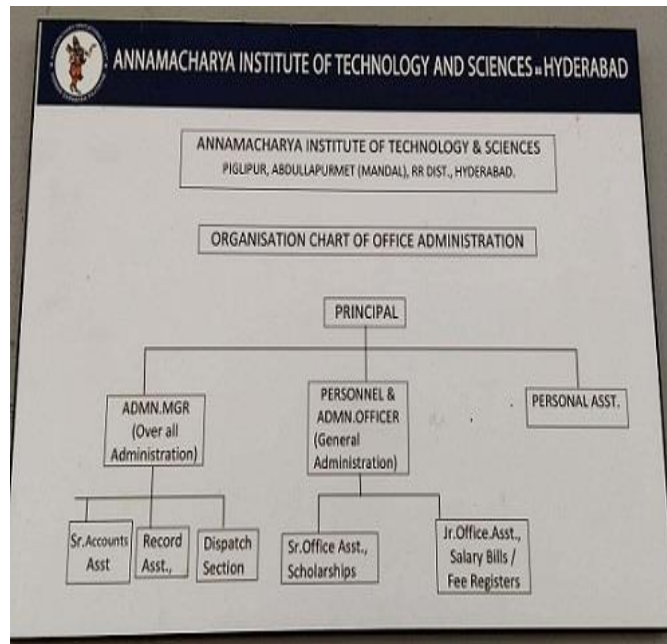
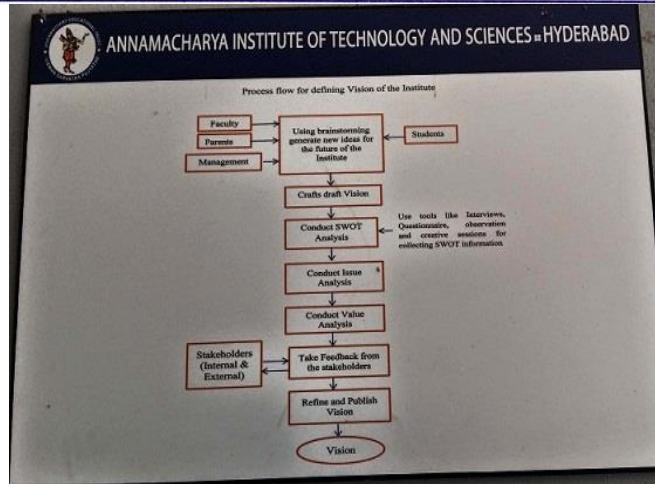
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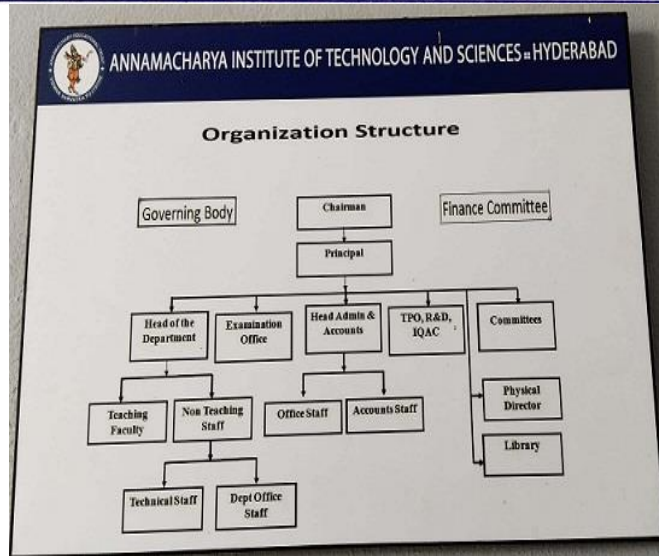
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ANNEXURE I
(A) PROGRAM OUTCOMES

Engineering Graduates will be able to:

- Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 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.
- 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.
- 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 OUTCOMES (PSOs)
Program should specify 2-4 program specific outcomes.

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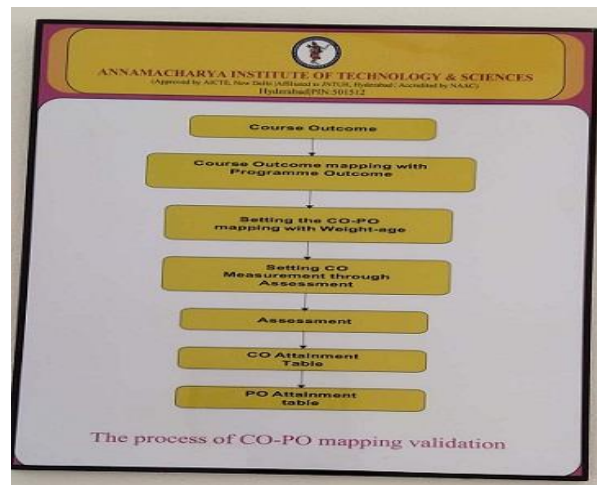
CIVIL DEPARTMENT

PROGRAM EDUCATIONAL OBJECTIVES (PEOs):

- PEO1 : Professional Growth: Graduates will have a successful career in emerging trends Civil Engineering or associated industries or teaching and research oriented activities.
- PEO2 : Attitude to adopt lifelong learning: Graduates will have the aptitude and attitude towards solving technological challenges.
- PEO3 : Technical advancement: To develop group work and team management abilities to push knowledge transfer per conceptualization and delivery of projects.

PROGRAM OUTCOME (Pos):

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the answer 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 style system components or processes that meet the required needs with appropriate consideration for the general public health and safety, and therefore 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 knowledge, and synthesis of the data to supply 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 constraints.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and therefore 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 with for sustainable development.
8. Ethics: Apply ethical principles and attempt to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as a private, 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, having the ability to prep and write effective reports and style documentation, make effective presentations, and provides 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 very team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the requirement for, and have the preparation and talent to interact in independent and life-long learning within the broadest context of technological change.



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DEPARTMENT OF CIVIL ENGINEERING VISION

VISION

Specially trained human resources at Department of Civil Engineering, AITS will handle critical areas in System planning, Design and Rehabilitation management of the infrastructure for giving much needed impetus for economic development and improve quality of life, meeting the societal needs.

MISSION

To generate a specialized cadre of Civil Engineers, by imparting training through with the help of state of the art laboratories, and updated hardware and software.

To excel in R&D and Industrial Consultancy with linkages in India and abroad, and bring teaching, research and consultancy to international standards in the field of Civil Engineering.

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CO Assessment

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graph TD; CO[CO Assessment] --> IA[Internal Assessment  
(25% weightage)]; CO --> UA[University Assessment  
(75% weightage)];
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Course Outcome is evaluated based on the performance of students in internal assessments and in university examination of a course. Internal assessment contributes 25% and university assessment contributes 75% to the total attainment of a CO.


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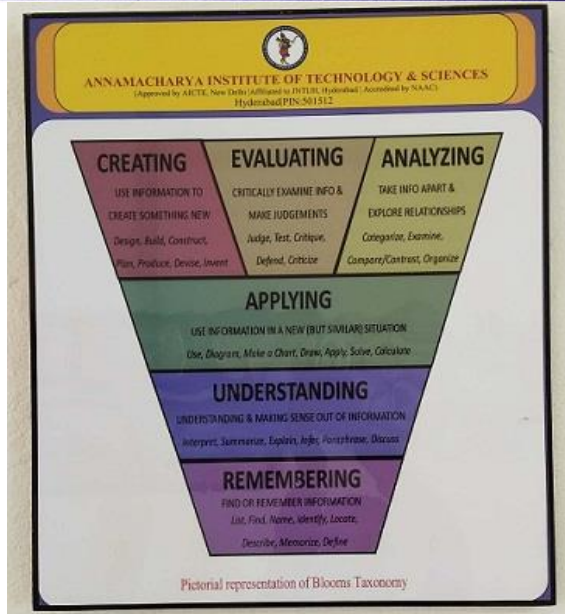
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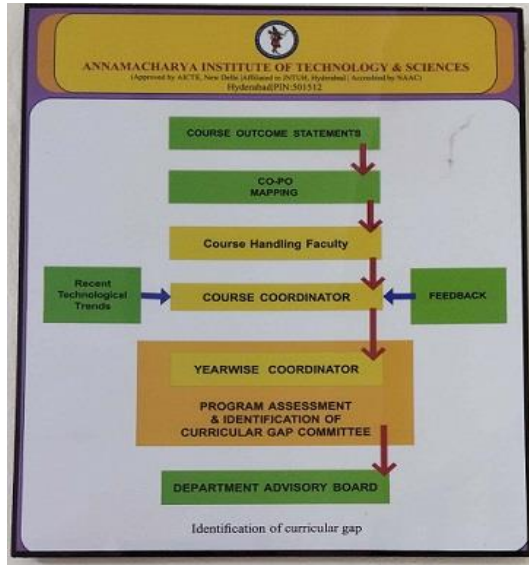


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ELECTRICAL AND ELECTRONICS ENGINEERING	
PROGRAM OUTCOMES	
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	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.
PO4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	Environment and sustainability: Understand the impact of the professional engineering activities in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
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PO10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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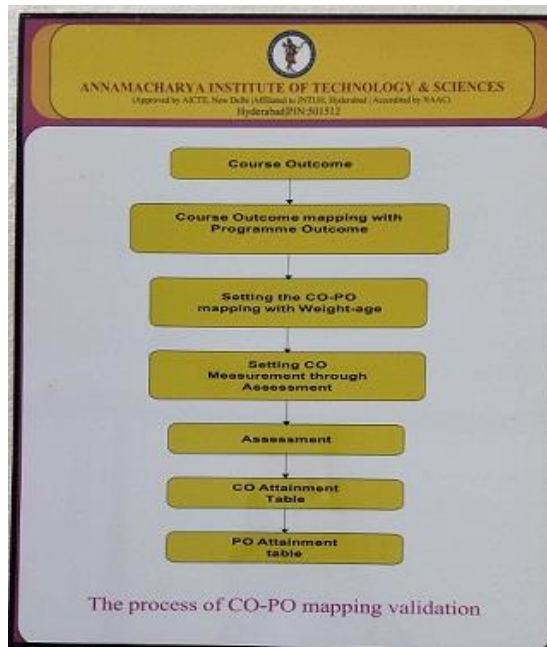
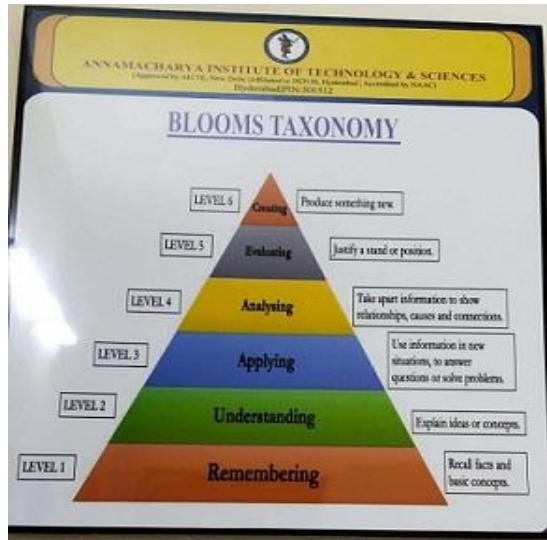


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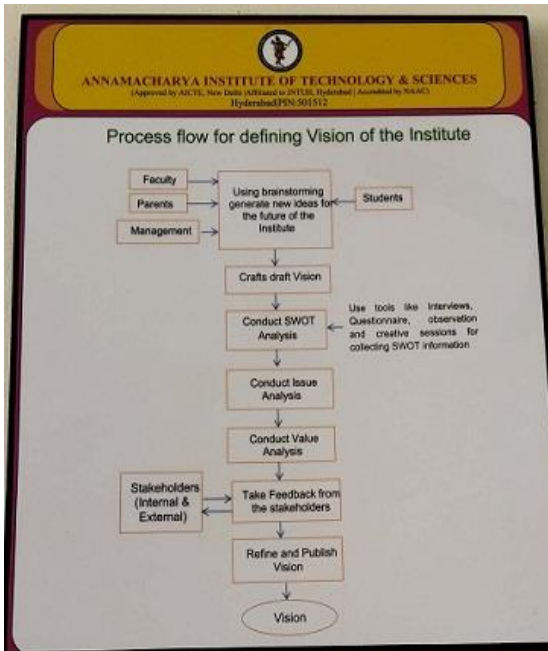
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Hyderabad (PIN-501512)

VISION

"The Mechanical Engineering Department strives to be recognized globally for outstanding education leading to well-qualified engineers, who are innovative, entrepreneurial and successful in advanced fields of engineering and technology"

Mission

- Imparting quality education to the students and enhancing their skills to make them globally competitive mechanical engineers.
- Maintaining vital, state-of-the-art lab facilities to provide its students and faculty with opportunities to create, interpret, apply and disseminate knowledge.
- To develop linkages with world class R&D organizations and educational institutions in India and abroad for excellence in teaching, research and consultancy practices.



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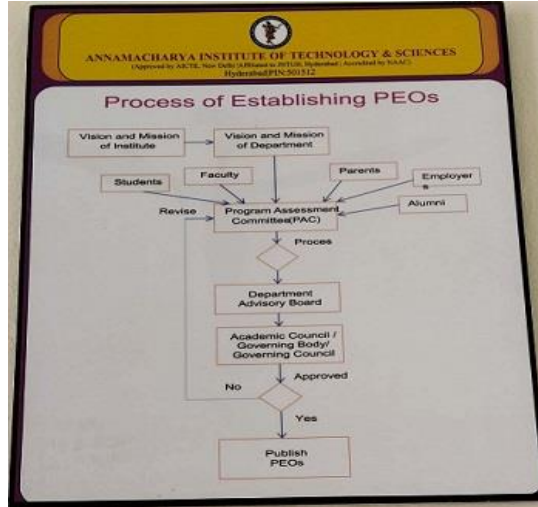
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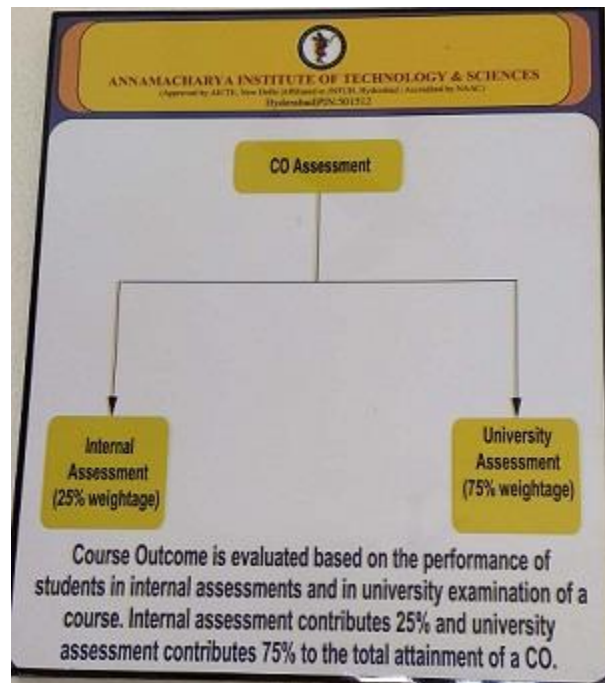
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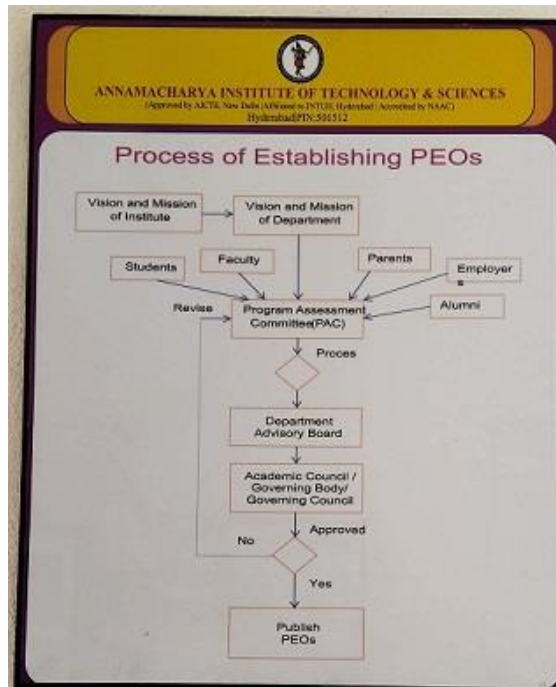
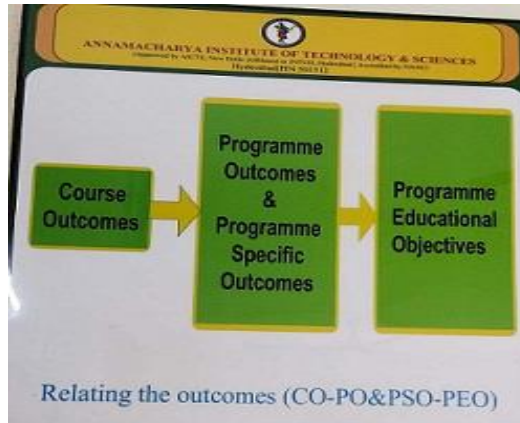
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Department of ECE

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

PEO1: Professional Growth: Graduates will have a successful career in emerging trends Electronics and Communication Engineering or associated Industries or higher education and research-oriented activities.

PEO2: Attitude to adopt lifelong learning: Graduates will have the capability and attitude towards evolving technological challenges.

PEO3: Technical achievement: To develop group work and team management abilities to promote knowledge transfer pertaining to conceptualization and delivery of projects.

PROGRAM OUTCOME (POs):

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and emerging specializations 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, social, 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.


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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/or multi-disciplinary 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.

PROGRAM SPECIFIC OUTCOMES (PSOs):

1. Interpretation abilities: Design, verify and validate Electronic functional elements for Complex engineering problems in the industry to cope up the latest technological trends.
2. Electronic Core Competency: Analysis, Design and implementation of VLSI systems, Communicator and embedded system, signal and image processing techniques for real time applications.


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COURSE OUT COMES

MANAGEMENT & ORGANIZATIONAL BEHAVIOR
To understand the Fundamentals of Management and Behavioral aspects of individual and groups in an organization.

BUSINESS ECONOMICS
To understand the Business, impact of Micro and Macro Economic Environment on business decisions.

FINANCIAL ACCOUNTING AND ANALYSIS
To prepare, analyze, interpret the financial statements for business decision making.

RESEARCH METHODOLOGY AND STATISTICAL ANALYSIS
To understand the basic statistical tools for analysis & interpretation of qualitative & quantitative data.

LEGAL AND BUSINESS ENVIRONMENT
To understand the Legal and Regulatory Framework for doing business in India.

BUSINESS ETHICS AND CORPORATE GOVERNANCE
To understand the growing importance of Corporate Governance in Indian and Global Context.

PROJECT MANAGEMENT
The objective of this course is to lay an important foundation to students in Managing projects with a special focus on every phase such as project planning, execution, Monitoring and evaluation.

TECHNOLOGY MANAGEMENT
To understand the importance of technology in conduct of business.

CROSS CULTURAL MANAGEMENT
To understand the importance of cross culture in conduct of business.

BUSINESS COMMUNICATIONS
To understand the importance of oral and written communication and its Applications in Business.

STATISTICAL DATA ANALYSIS LAB
To understand the application of Statistical tools to Research Problem / Projects.


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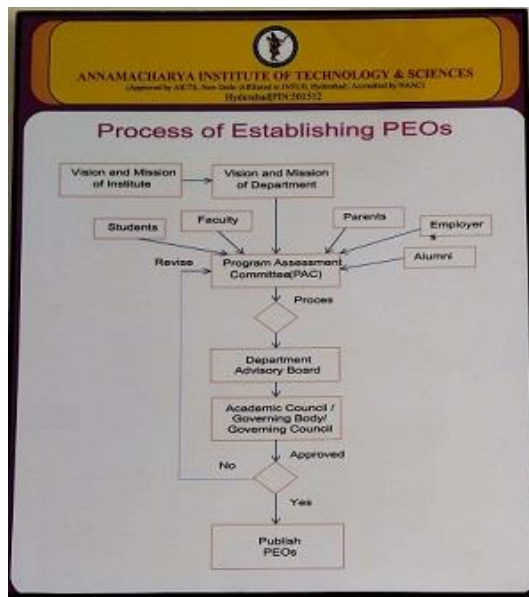
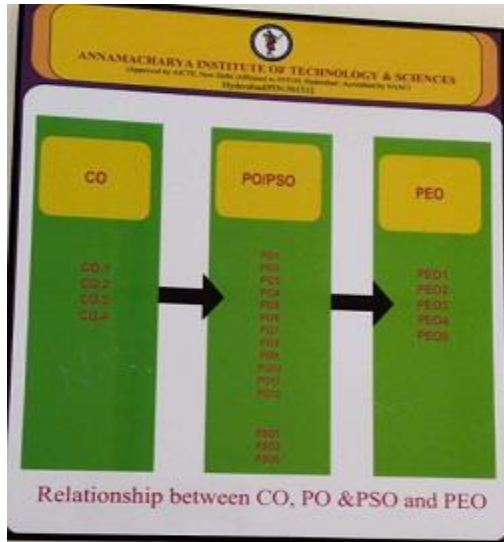
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MBA

2.0 Student Performance and Learning Outcomes
2.0.1 Program outcomes, program specific outcomes and course outcomes for all programs
2.0.2 Attainment of program-outcomes, program-specific outcomes and course outcomes
Are evaluated by the institutions offered by the institution and stated and disclosed on website and communicated to teachers and students

Programme Code	F1
Programme name	MBA
Programme outcomes	PO1: Apply management principles and techniques to troubleshoot business problems.
	PO2: Identify and analyse business problems.
	PO3: Develop and execute solutions with thorough research and analysis.
	PO4: Set goals and lead teams to accomplish them.
	PO5: Build professional values.
Programme educational objectives	PO6: Excel in assigned positions in the industry.
	PEO1: Post graduates of the Programme will have successful careers as manager and business leaders.
	PEO2: Post graduates of the Programme will display a sense of professionalism, ethical attitude, effective communication skills, multi-disciplinary approach with a strong insight to address socio-cultural issues.
	PEO3: Post Graduates of the Programme will continue to learn and adapt to the changing world of business with a strong focus on R&D.

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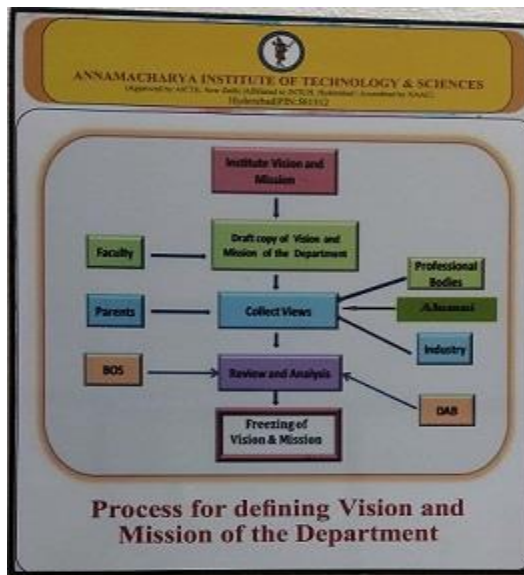
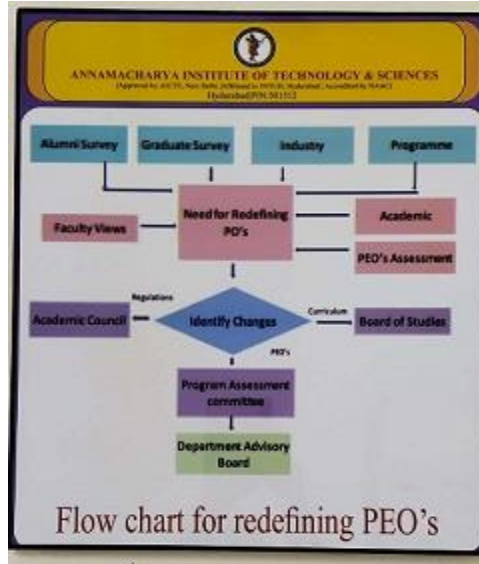


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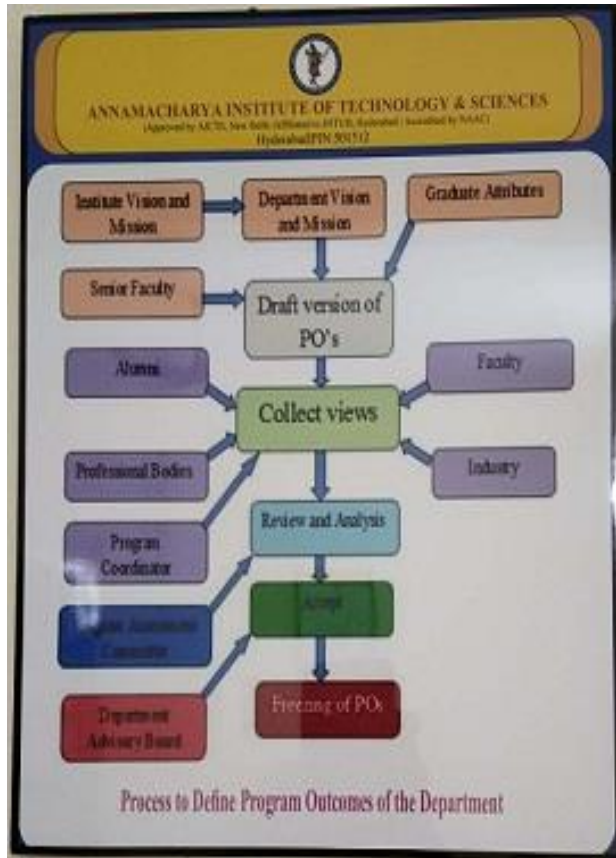
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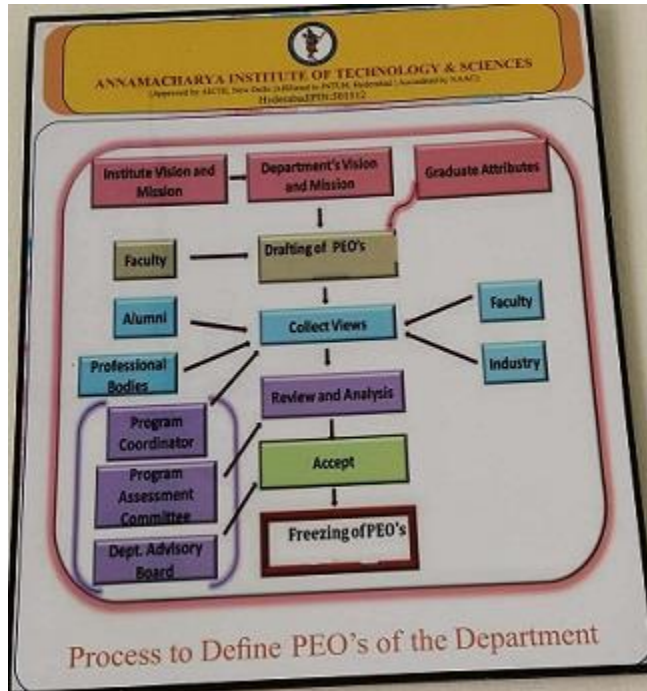
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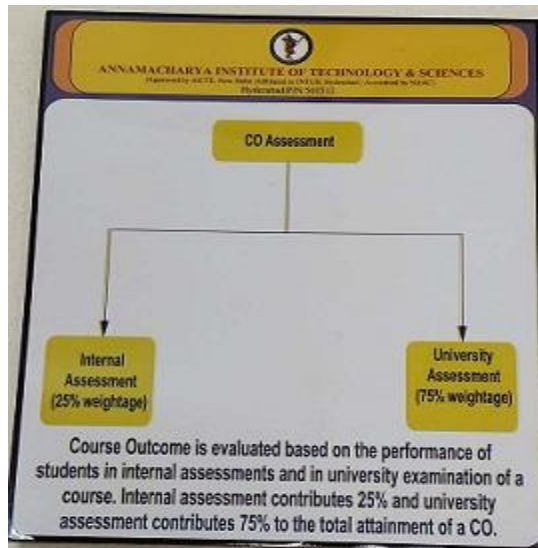
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Process to Define PEO's of the Department



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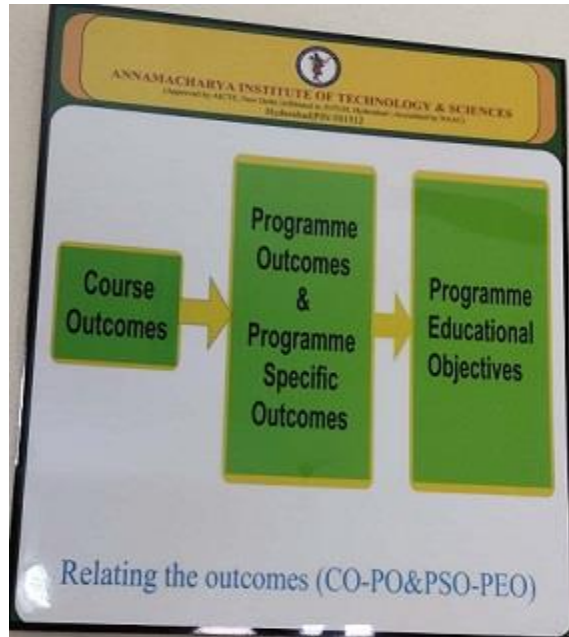
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7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for, sustainable development.
8. **Ethics:** Apply ethical principles 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. **Lifelong learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broader context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs):

1. **Interpretative abilities:** Design, Verify and Validate Electronic functional elements for Complex engineering problems in the industry to cope up the latest technological trends.
2. **Electronics Core Competency:** Analysis, Design and implementation of VLSI systems, Communication and embedded system, signal and image processing techniques for real time applications.

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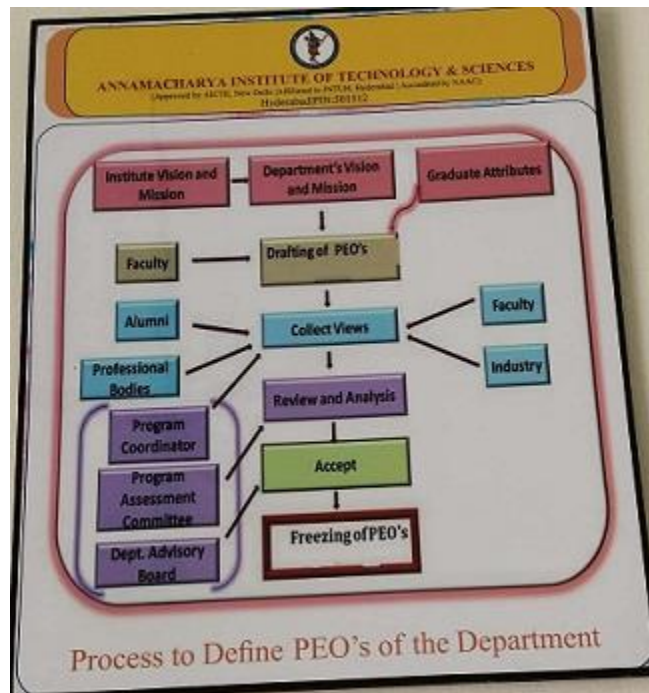
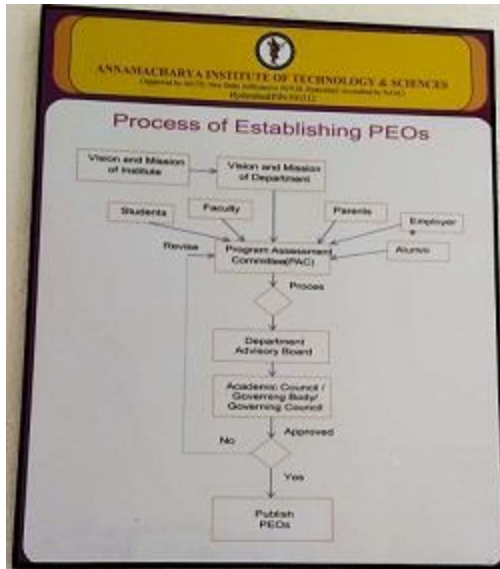
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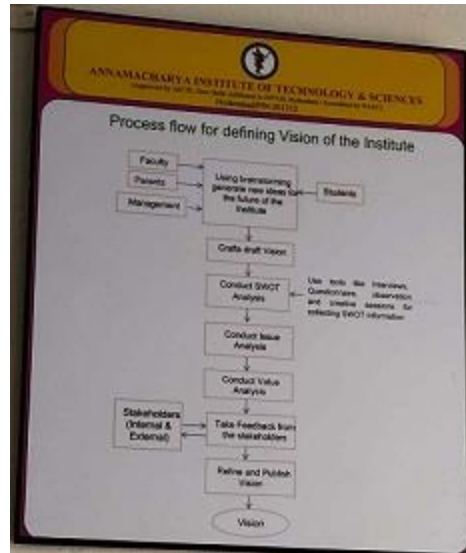


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**DEPARTMENT OF HUMANITIES & SCIENCES
PROGRAMME OUTCOMES (Pos)**

- Pos1 - **Engineering knowledge:** An ability to apply the knowledge of mathematics, science, and engineering fundamentals and an engineering specialization to the solution of complex Civil engineering problems.
- Pos2 - **Problem Analysis:** An Ability to design experiments for the required cause and systematically analyze and interpret the data acquired from the experiment to draw apt conclusions.
- Pos3 - **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 public health and safety, and the cultural, social, and environmental considerations.
- Pos4 - **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.
- Pos5 - **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.
- Pos6 - **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.
- Pos7 - **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.
- Pos8 - **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- Pos9 - **Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams, and in multidisciplinary settings.
- Pos10 - **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.
- Pos11 - **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.
- Pos12 - **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.

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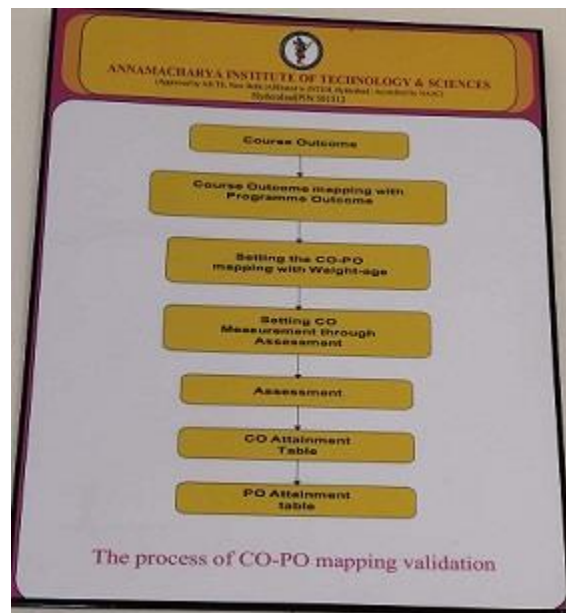
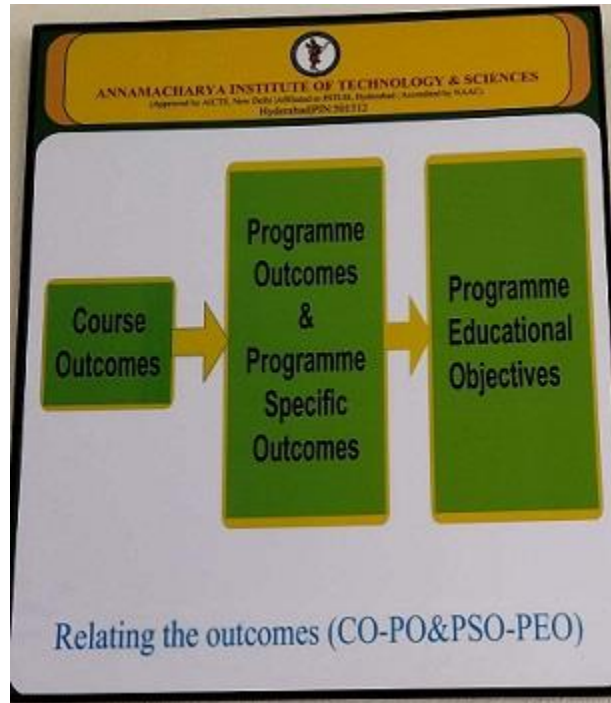
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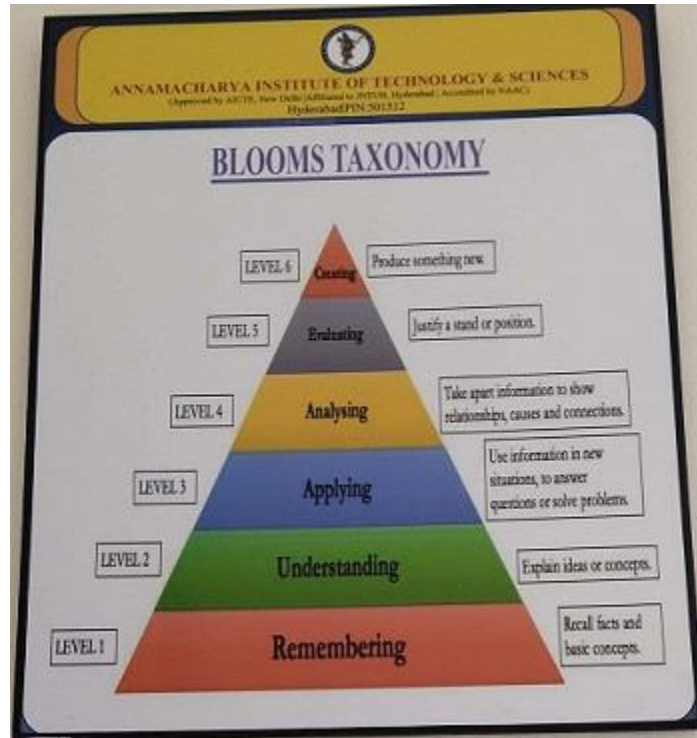


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**Course Outcomes (Cos): B. Tech I year I & II semesters:
CSE//EEE JNTUH-R18 Regulations**

Code	Course Name	Course Outcomes
I B. Tech I Semester		
MA10185	Mathematics - I	CO1. Write the matrix representation of a set of linear equations and to analyse the solution of the system of equations. CO2. Find the Eigen values and Eigen vectors. CO3. Reduce the quadratic form to can on by performing orthogonal transformations. CO4. Analyse the nature of sequence and series. CO5. Solve the applications on the mean value theorem.
MA20285	Applied Physics	CO1. The student would be able to learn the fundamental concepts on Quantum behaviour of matter in its micro state. CO2. The knowledge of fundamentals of Semiconductor physics, Optoelectronics, lasers and fibre optics enable the students to apply to various systems like communication, solar cell, photo cell and so on. CO3. Design, characterization and study of properties of material help the students to prepare new materials for various engineering applications. CO4. The course also helps the students to be exposed to the phenomena of electromagnetism and also to have exposure on magnetic materials and dielectric materials.
CS20385	Programming for Problem Solving	CO1. To write algorithms and to draw flowcharts for solving problems. CO2. To convert the algorithms/flowcharts to C programs. CO3. To code and test a given logic in C programming language. CO4. To decompose a problem into functions and to develop modular reusable code. CO5. To use arrays, pointers, strings and structures to write C programs.

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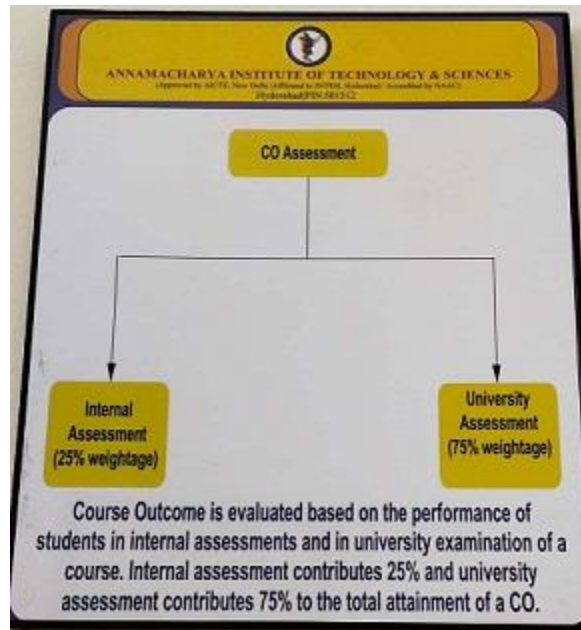
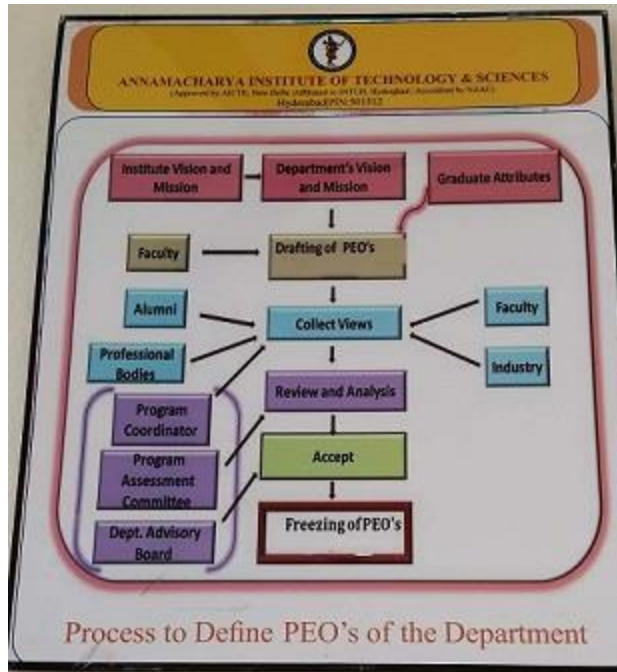
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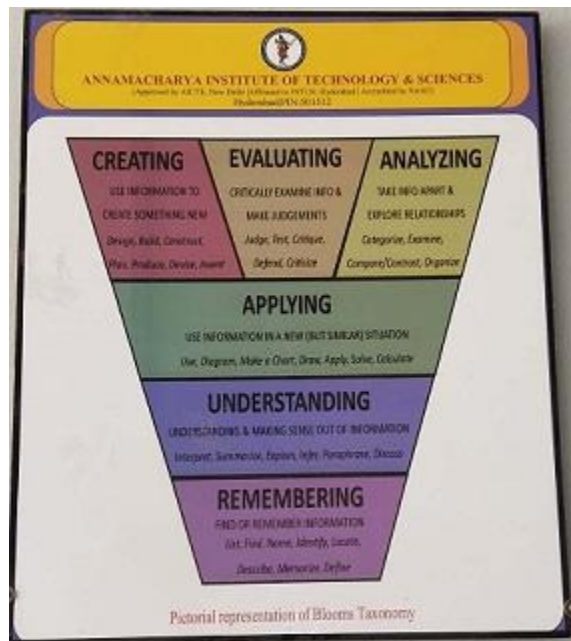
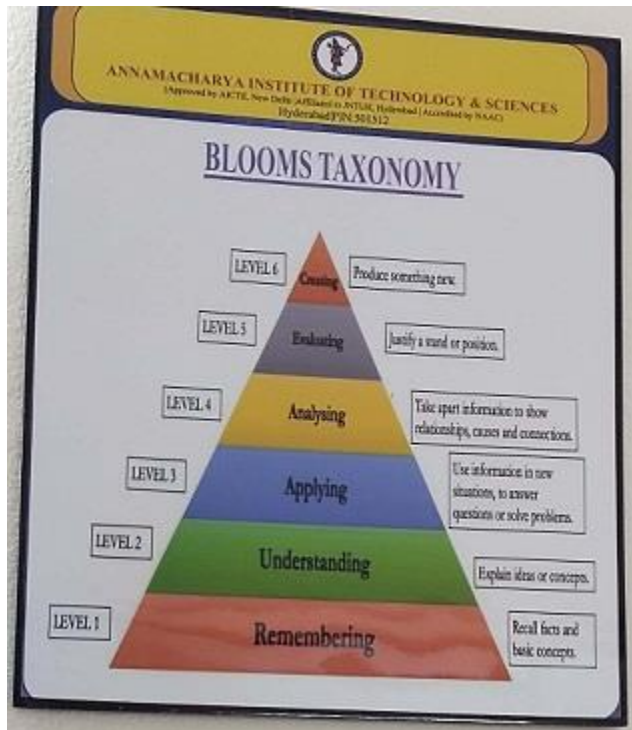


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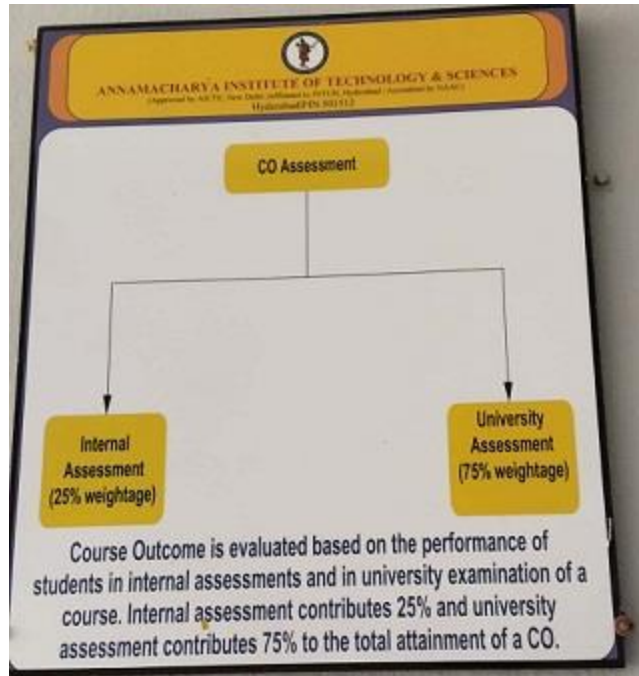
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ATTAINMENT OF COURSE OUTCOMES

Tools used for assessment:

Marks allocation by University: The division of marks given by university, and weight ages in arriving at the attainment of CO are given below. The CO assessment is carried out through CIE and SEE with the following proportions:

Table: Weightages of Marks for CIE: SEE

Type of course	Internal Marks(CIE)	External Marks(SEE)	Total Marks	Net CO Attainment Level As per Weightages
Theory	25	75	100	0.25*CIE Level+0.75*SEE Level
Laboratory	25	75	100	0.25*CIE Level+0.75*SEE Level
Seminar	100	-	100	CIE Level
Industrial oriented Mini Project/Summer internship	25	75	100	0.25*CIE Level+0.75*SEE Level
Project stage -I	100	-	100	CIE Level
Project stage -II	25	75	100	0.25*CIE Level+0.75*SEE Level
Mandatory course	100	-	100	CIE Level

Based on combined Marks(i.e. CIE+SEE) Obtained by Candidate, Letter grades are Awarded as shown below
Corresponding Grade Points also shown in table

% Of marks Secured in Subject/Course (Class intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than are Equal to 90%	O(Outstanding)	10
80 and Less than 90	A+(Excellent)	9
70 and less than 80%	A(Very Good)	8
60 and Less than 70%	B+(Good)	7
50and Less than 60%	B(Average)	6
40 and less than 50%	C(Pass)	5
Below 40%	F(Fail)	0
Absent	Ab	0

Table: Letter Grades With Respect to Academic Performance


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For attainment of course outcomes

- Final Letter grades obtained by each student in the course in the course are made available by university.
 - These Letter grades must be converted to marks as show in below table.

%of Marks Secured in a Subject	Letter Grade	Corresponding Marks
Greater than or equal to 90%	O	1*Max SEE Marks
80 and less than 90%	A+	0.89*Max SEE Marks
70 and less than 80%	A	0.79*Max SEE Marks
60 and less than 70%	B+	0.69*Max SEE Marks
50 and less than 60%	B	0.59*Max SEE Marks
40 and less than 50%	C	0.49*Max SEE Marks
Below 40%	F	0.39*Max SEE Marks

- Frequency of data Collection

The data required for calculating attainments is to be gathered. Each course instructor maintains the data required like internal Marks mid wise and External Marks of their respective course. The frequency of data collection for collection for each assessment tool is show in a table.

Assessment Toll	Frequency
University	Once a semester

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Mid Examination	Twice a semester
Assignments	Twice a semester
Internal/External Lab Examination	Once a semester

Table: Data Frequency

Attainment of CO's for Theory Courses:

Attainment of theory courses calculated base on student performance I Continuous internal Evaluation (CIE) and semester End Examination (SEE)

Overall CO attainment -0.25 CIE Level +0.75 SEE Level

These values of the CO levels for the course are then used for mapping the PO attainments, using the array of target PO values for the course. The procedure adapted for calculating the attainment of Course Outcomes for a Theory course is described with an example for the course Python program

CO	SUB	OBJ	ASGN	OVER ALL	LEVEL
C411.1	100	97	98	98.26	3
C411.2	88.61	98	100	95.38	3
C411.3					
C411.4					
C411.5					
C411.6					

OVER ALL COURSE ATTAINMENT

3

Attainment Level	
1	60
2	80
3	80 ABOVE


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Table: Mid-II Internal Examination Attainment

Name of the Faculty:
G.Prasanth

Branch & Section: CIVIL & A
Subject Name: ECPM

Academic year: 2022-23
Examination: II MID
YEAR: IV B. Tech I Sem (R18)

AWARD LIST												
S. No.	Hall Ticket No.	Question No.									Obj1	A1
		Q1a	Q1b	Q2a	Q2b	Q3a	Q3b	Q4a	Q4b	Total		
	Max Marks	5	0	5	0	5	0	5	0	25	10	5
1	17T81A0111			3		2				14	5	4
2	17T81A0113					1		2		13	7	3
3	18T81A0102							2		9	5	2
4	18T81A0103			5		1				16	5	5
5	18T81A0104			1						11	5	5
6	18T81A0105			2				1		18	10	5
7	18T81A0106							4		19	10	5
8	18T81A0107			3				5		18	5	5
9	18T81A0108			4				4		18	5	5
10	18T81A0109			4				5		19	5	5
11	18T81A0110			2				4		10	2	2
12	18T81A0111			4						19	10	5
13	18T81A0112							5		20	10	5
14	18T81A0113			3				4		17	5	5
15	18T81A0114	2						1		13	5	5
16	18T81A0115	1						5		10	2	2

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17	18T85A0121	3					4		10	1	2
18	19T85A0101	1					5		16	5	5
19	19T85A0102			4					19	10	5
20	19T85A0103					2			17	10	5
21	19T85A0104			3		2			20	10	5
22	19T85A0105			5		5			20	5	5
23	19T85A0107			1		5			21	10	5
24	19T85A0108			5				3	18	5	5
25	19T85A0109							5	20	10	5
26	19T85A0110							5	20	10	5
27	19T85A0112			4				3	17	5	5
28	19T85A0113			1				5	21	10	5
29	19T85A0114			5					20	10	5
30	19T85A0115							3	18	10	5
31	19T85A0116			2				5	22	10	5
32	19T85A0117			5					20	10	5
33	19T85A0118			5				5	21	6	5
34	19T85A0119			2				5	22	10	5
35	19T85A0120			1				5	21	10	5
36	19T85A0121			2				2	19	10	5
37	19T85A0122							5	20	10	5
38	19T85A0123			4					19	10	5
39	19T85A0124							3	18	10	5
40	19T85A0125			1				2	11	5	3

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41	19T85A0126						2		12	5	5
42	19T85A0127			4					19	10	5
43	19T85A0129			5					20	10	5
44	19T85A0130						2		17	10	5
45	19T85A0131			2					17	10	5
46	19T85A0132			1			5		21	10	5
47	19T85A0133						4		19	10	5
48	19T85A0134						1		16	10	5
49	19T85A0135			5					20	10	5
50	19T85A0136			2			5		11	2	2
Performance Target set by the faculty/HOD		60%		60%		60%	60%		60%	40%	60%
Number of students performed above the target		3		32		4	41		48	48	48
Number of students attempted		4		36		4	42		50	50	50
Percentage of students scored more than target		75		88.88		100	97.61		96	96	96
Class Average Mark		3.5		4		4.5	4.54		21.74	9.6	4.8

CO	SUB	ASGN	OVER ALL	LEVEL
C101.1				
C101.2				
C101.3	75	97.61	86.30	3
C101.4	88.89	97.61	93.25	3
C101.5	98.81	97.61	98.21	3

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Internal Examination Attainment

Name of the Faculty: G.Prasanth

YEAR: 2022-23

Branch & Section: CIVIL & A

Examination: II MID

Subject

CLASS:IV B.TECH ISEM

Name:ECPM:

AWARD LIST		
S. No.	Hall Ticket No.	MARKS
		25
1	17T81A0111	14
2	17T81A0113	13
3	18T81A0102	9
4	18T81A0103	16
5	18T81A0104	11
6	18T81A0105	18
7	18T81A0106	19
8	18T81A0107	18
9	18T81A0108	18
10	18T81A0109	19
11	18T81A0110	10
12	18T81A0111	19
13	18T81A0112	20
14	18T81A0113	17
15	18T81A0114	13
16	18T81A0115	10
17	18T85A0121	10
18	19T85A0101	16
19	19T85A0102	19


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20	19T85A0103	17
21	19T85A0104	20
22	19T85A0105	20
23	19T85A0107	21
24	19T85A0108	18
25	19T85A0109	20
26	19T85A0110	20
27	19T85A0112	17
28	19T85A0113	21
29	19T85A0114	20
30	19T85A0115	18
31	19T85A0116	22
32	19T85A0117	20
33	19T85A0118	21
34	19T85A0119	22
35	19T85A0120	21
36	19T85A0121	19
37	19T85A0122	20
38	19T85A0123	19
39	19T85A0124	18
40	19T85A0125	11
41	19T85A0126	12
42	19T85A0127	19
43	19T85A0129	20


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44	19T85A0130	17
45	19T85A0131	17
46	19T85A0132	21
47	19T85A0133	19
48	19T85A0134	16
49	19T85A0135	20
50	19T85A0136	11
Performance Target set by the faculty/HOD		40
Number of students performed above the target		24
Number of students attempted		48
Percentage of students scored more than target		50
Class Average Mark		30.22917
ATTAINMENT LEVEL		2

ATTAINMENT LEVEL	PERCENTAGE OF STUDENTS
1	40
2	60
3	60 above


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Table: Overall Attainment for subject ECPM

Course outcomes	Ist internal Exam	2nd internal Exam	Internal (Avg.)	University Exam	Overall Attainment
Course outcomes-1	3		3	2	2.25
Course outcomes-2	3		3	2	2.25
Course outcomes-3		3	3	2	2.25
Course outcomes-4		3	3	2	2.25
Course outcomes-5		3	3	2	2.25


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Similarly CO attainment is calculated for all theory courses for corresponding academic years respectively

CO attainment level for courses other than Theory:

a) Laboratory:

Continuous Internal Evaluation:

The internal evaluation is based on session wise performance of experiment and viva voce, Observation, record and internal examination. The final internal marks are considered for CIE, and CO level for CIE attainment is decided upon the percentage of students who score more than 55% of the maximum internal marks, i.e., 13.75 out of 25 is used to decide the CO attainment level and is uniform for all CO's.

Semester End University Examination Evaluation (SEE): SEE Lab exam is evaluated for 75 marks. In SEE of the lab, % of students who score over 40% of the maximum marks, i.e. 30 out of 75 marks, is used to decide the CO attainment level and is uniform for all CO's.


b) Seminar:

For seminars, the assessment is based only on internal evaluation. The marks obtained in seminar is used to decide the % of students who scored more than 55% of maximum marks, and this % is used for determining corresponding CO attainment level. This Attainment level is construed as uniform for all COs of the course.

c) Industry Oriented Mini Project: For Industry Oriented Mini Project, the assessment is based only on External evaluation. The marks obtained in Industry Oriented Mini Project is used to decide the % of students who scored more than 40% of maximum marks, and this % is used for determining corresponding CO attainment level. This Attainment level is construed as uniform for all COs of the course.

d) Project: Continuous Internal Evaluation:

The internal marks for project (25) are the total of marks allotted in Project review, final presentation, and by project guide. The final internal marks are considered for CIE, and CO level for CIE attainment is decided upon the percentage of students who score more than 55% of the maximum internal marks, i.e., 13.75 out of 25 is used to decide the CO attainment level and is uniform for all Cos


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Semester End University Examination Evaluation (SEE):

The external evaluation is by award of Grade (Excellent/Very Good/Satisfactory /Poor). These grades are considered for SEE, and CO level for SEE attainment is decided upon the percentage of students who got Excellent/Very Good/Good to the number of students appeared is used to decide the CO attainment level and is uniform for all COs. The average value of the CO levels for the course are then used for mapping the PO attainments, using the array of target PO values for the course.

Attainment of Program Outcomes and Program Specific Outcomes:

Direct assessment of POS and PSOS for a course is obtained by mapping the respective CO value of Course Outcome attainment with the mapping of the target or expected POS and PSOs for the particular course.

The procedure adapted for calculating the attainment of Course Outcomes for a Theory course is described with an example for the course Python Programming the CO values arrived from CIE and SEE for the course Python Programming (CS751PC) for

Indirect Assessment Tools:

The PO/PSOs are attained indirectly by taking different surveys. These surves are also having equal weightages

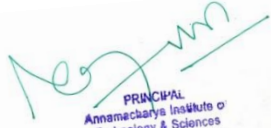
For overall PO/PSO attainment.

1. Program Exit Survey
2. Alumni Survey
3. Employer Feedback Survey

Frequency of Data Collection:

Table: Data Frequency

S.No	Assement Tool	Frequency of data collection
1.	Program Exit Survey	Once a year
2.	Alumni Survey	Once a year
3.	Employer Feedback Survey	Once a year


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Indirect Assessment Tools:

Alumni Survey: A feedback is collected on POS & PSOS from alumni students. It contributes towards the weight age of PO and PSO attainment. This survey is conducted by Alumni coordinator with the passed out students. Alumni coordinator collects both Alumni feedback forms filled by passed out student.

Employer Feedback Survey: A feedback is collected on Vision & Mission, PEOs, and POs & PSOS It is an indirect assessment tool which contributes towards the weightage of PO and PSOS. It is conducted after one year of service completed by the graduates from joining those respective organizations.

Program Exit Survey: The Program graduate exit survey is collected at the end of the program. The objective of the survey is to know the level of confidence of each POs & PSOS that a graduate possess by the end of the program.

Program Level CO-PO Mapping

(A.Y. : 2018-2023)

BTECH I YEAR I SEM(A.Y.2017-2018)															
SNO	COURSE CODE	CODE	NAME	PROGRAM OUTCOMES										PO11	PO12
				PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10		
1	MA101BS	C101	Mathematics-I	3	3	3	2	2							3
2	CH102BS	C102	Engineering Chemistry	3	3	3	2	2							2.8
3	PH103BS	C103	Engineering Physics-I	3	3	2.8	2	2.6							3
4	EN104HS	C104	Professional Communication in English	3	3		2.2	2.6			2.6	3	3		3
5	ME105ES	C105	Engineering Mechanics	2.8	2.8	2.6	1.8	1.6	1.6	1.6	2	2.6	1.4	1.4	3
6	EE106ES	C106	Basic Electrical and Electronics Engineering	3	3	2	2.2	2.6	2		2.2	2	1.8		3
7	EN107HS	C107	English Language Communication Skills Lab	3	3		2.2	2.6			2.6	3	3		3
8	ME108ES	C108	Engineering Workshop	2.8	2.8		1.8	1.6	1.6	1.6	2	2.6	1.4	1.4	3

[Handwritten Signature]
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BTECH I YEAR II SEM															
SNO	COURSE CODE	CODE	NAME	PROGRAM OUTCOMES											
				PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
9	PH201BS	C110	Engineering Physics-II	3	3	c	1.6	2.4							2.8
10	MA202BS	C121	Mathematics-II	2.8	2.6	2.6	1.6	1.6							2.6
11	MA203BS	C131	Mathematics-III	2.4	2.4	2.4	1.6	1.6							2.4
12	CS204ES	C141	Computer Programming in C	2.8	2.8	2	2	2.6	2		2	2	2		2.8
13	ME205ES	C151	Engineering Graphics	2.8	2.6	2.6	2.2	1.6	2.2	1.8	2.2	2.4	1.6	1.4	3
14	CH206BS	C161	Engineering Chemistry Lab	2.8	2.8	2.4	1.6	1.6							2.6
15	PH207BS	C171	Engineering Physics Lab	2.6	2.6	2.6	1.8	2.4							2.6
16	CS208ES	C181	Computer Programming in C Lab	2.8	2.8	2.2	2.2	2.6	2		2	2	2		2.8
BTECH II YEAR I SEM (AY.2018-2019)															
17	MA301BS	C211	Mathematics – IV	2.4	2.4	2.4	1.6	1.6							2.4
18	CS302ES	C212	Data Structures through C++	2.8	2.8	2.8	2.2	2	2.4	2.4		2	2	2.2	3
19	CS303ES	C213	Mathematical Foundations of Computer Science	2.4	3	2.6			1.4	1.2			1.6		1.6
20	CS304ES	C214	Digital Logic Design	2.8	2.7	2.6		2		2.4			2.4		2.6
21	CS305ES	C215	Object Oriented Programming through Java	3	3	2.4	2.2	2.2	2	2		1	1.6		2
22	CS306ES	C216	Data Structures through C++ Lab	3	2	2.5	2								
23	CS307ES	C217	IT Workshop	1.8	2	2.2	1.8	2				2	2	1.6	1.8
24	CS308ES	C218	Object Oriented Programming through Java Lab	2.4	2.4	1.3	1.8	2				1.8	2	2.4	1.67
BTECH II YEAR II SEM															
25	CS401BS	C221	Computer Organization	3	2.2	2.4	2.2	2	2	2		2.2	2		
26	CS402ES	C222	Database Management Systems	2.4	2.2	2	2.4	2	2.2			2.4	2.8		2
27	CS403ES	C223	Operating Systems	2.2	2.2	2.2	2.4	1.8	2.2	1.8		2.6	2		2
28	CS404ES	C224	Formal Languages and Automata Theory	2.4	2.2	2	2	2				2			2
29	SM405MS	C225	Business Economics and Financial Analysis	1	1	2	1	2	2	2	3	3	2	1	2

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30	CS406ES	C226	Computer Organization Lab	2.8	2	2.8										2.6
31	CS407ES	C227	Database Management Systems Lab	2.2	2.2	2.2	2.3	2.33						1.8		
32	CS408ES	C228	Operating Systems Lab	2	2	3	2						2	2.2		
BTECH III YEAR I SEM(A.Y.2019-2020)																
33	CS501PC	C321	Design and Analysis of Algorithms	2.6	2.4	2.2	2.4	2.6					2.4	2.6		2.2
34	CS502PC	C322	Data Communication and Computer Networks	2.6	2.8	2.6							2.4	2.4	2.2	2.6
35	CS503PC	C323	Software Engineering	2.6	2.6	2.4	2.6	2.5	1.8			2.5	2.6		2.6	2.5
36	SM504MS	C324	Fundamentals of Management	1.0	1.0	2.0	1.0	2.0	2.0	2.0	3.0	3.0	2.0	1.0	2.0	
37	ME512OE	C325	Computer Graphics	2.5	2.3	2.3	2.3	2.3					2.0	2.0	2.5	2.3
38	CS505PC	C326	Design and Analysis of Algorithms Lab	2.6	2.2	2.8	2.4	2.6					2.4	2.6		2.2
39	CS506PC	C327	Computer Networks Lab	2.8	2.4	2.8	2.2	2.0					2.6	2.6	2.2	2.0
40	CS507PC	C328	Software Engineering Lab	2.6	2.6	2.4	2.6	2.5	1.8			2.5	2.6		2.6	2.5
BTECH III YEAR II SEM																
41	CS601PC	C422	Compiler Design	3	3	3	3	3					2	2.4	2.4	2.6
42	CS602PC	C423	Web Technologies	2.4	2.4	2.2		2.8					2.2	2.2		
43	CS603PC	C424	Cryptography and Network Security	2.4	2	2	2	2	2				1			2
44	ME622OE	C425	Fundamentals of Robotics	2.6	2	2	2						2.4			2.2
45	CS612PE	C426	Design Patterns	2.6	2.2	2	2	2								
46	CS604PC	C427	Cryptography and Network Security Lab	2.2	2	2	2	2								2
47	CS605PC	C428	Web Technologies Lab	2.6	2.2	2.4	2.6						2.4			2.4
48	EN606HS	C429	Advanced English Communication Skills Lab	3	3											
BTECH IV YEAR I SEM(2021-2022)																
49	CS701PC	C521	Data Mining	1.5	2.2	2.06	2.06					1.5	0			2.25
50	CS702PC	C522	Principles of Programming Languages	1.5	1.3	1.4	1.4	1.3	1.1					1.5	1.5	1.3
51	CS721PE	C523	Python Programming	2.1	2.1	2.1	1.95	2.1					2.25	1.95		1.8
52	CS732PE	C524	Distributed Systems	1.5	1.5	1.5	1.5						1.3	1.5		
53	CS742PE	C525	Cloud Computing	2	2	3	2.6	3								



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54	CS703PC	C526	Data Mining Lab	2.4	2	2.2	2.25	2.6	2	2	2	2.6		2	3
55	CS751PC	C527	Python Programming Lab	2	2.2	2.4	2.2	2.2							
56	CS705PC	C528	Industry Oriented Mini Project	2.3	2	3		2	2			2	3	2	
57	CS706PC	C529	Seminar	2	2		2.3	2					2		
BTECH IV YEAR II SEM															
58	EE833OE	C631	Organizational Behaviors	1	1	2	1	2	2	2	3	3	2	1	2
59	CS852PE	C632	Real-Time Systems	2.5	2.2	3	2.3	2	1						
60	CS862PE	C633	Web Services and Service Oriented Architecture	2.25	2.2	2.25		2.1		1.95		1.05		1.95	2.1
61	CS801PC	C634	Major Project	2.3	2	3		2	2			2	3	2	
Average				2.42	2.32	2.38	2.39	2.08	1.79	1.78	2.76	2.58	1.78	2.19	2.79

PO ATTAINMENT LEVEL (2018-2023)

COURSE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct Attainment (Average)	2.42	2.32	2.38	2.39	2.08	1.79	1.78	2.76	2.58	1.78	2.19	2.79
Direct Attainment (80% Average)	1.936	1.856	1.904	1.912	1.664	1.432	1.424	2.208	2.064	1.424	1.752	2.232
Indirect Attainment	2.92	2.89	2.95	2.89	2.96	2.95	2.75	2.81	2.85	2.77	2.86	2.91
Indirect Attainment (20%)	0.58	0.57	0.59	0.57	0.59	0.59	0.55	0.56	0.57	0.55	0.57	0.58
Overall PO attainment (80+20)	2.516	2.426	2.494	2.482	2.254	2.022	1.974	2.768	2.634	1.974	2.322	2.812


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S.No	CODE	Name	PSO		
			PSO1	PSO2	PSO3
B.TECH I YEAR					
1	C101	Mathematics-I	1.6	2	-
2	C102	Engineering Chemisty	2	2	-
3	C103	Engineering Physics-I	2	2	-
4	C104	Professional Communication in English	1.6	1.6	1.6
5	C105	Engineering Mechanics	1.6	1.6	1.2
6	C106	Basic Electrical nad Elcctronics Engineering	1.6	1.6	1.6
7	C107	English Language Communication Skills Lab	1.6	1.6	1.6
8	C108	Engineering Workshop	1.6	1.6	-
9	C110	Engineering Physics-II	1.6	1.6	-
10	C121	Mathematics-II	1.6	2	1.4
11	C131	Mathematics-III	1.6	1.6	1.6
12	C141	Computer Programming in C	1.6	1.6	3
13	C151	Enginneering Graphics	2	1.8	2.2
14	C161	Engieerning Cheistry Lab	2	2.4	1.6
15	C171	Engineering Physics Lab	2	2	
16	C181	Computer Programming in C Lab	1.8	1.8	3
B.TECH II YEAR					
17	C211	Mathematics – IV	1.6	1.6	1.6
18	C212	Data Structures through C++	2.2	2.6	3
19	C213	Mathematical Foundations of Computer Science	1.8	1.8	-
20	C214	Digital Logic Design	2.2	2.4	2.8
21	C215	Object Oriented Programming through Java	2.85	2.4	3
22	C216	Data Structures through C++ Lab	1.8		2
23	C217	IT Workshop	2.6	2.4	2.6
24	C218	Object Oriented Programming through Java Lab	2.2	2.4	2.6
26	C221	Computer Organization	2.8	2.6	2
27	C222	Database Management Systems	2.2	2.8	2.2
28	C223	Operating Systems	2.6	2.6	2.4
29	C224	Formal Languages and Automata Theory	2.8	2.5	
30	C225	Business Economics and Financial Analysis	2	3	3
31	C226	Computer Organization Lab	2.4	2	2.2
32	C227	Database Management Systems Lab	2.4	2.6	2



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33	C228	Operating Systems Lab	2.2	2.4	2.6
B.TECH III YEAR			2.8	2.4	3.0
35	C321	Design and Analysis of Algorithms	2.6	2.4	2.6
36	C322	Data Communication and Computer Networks	2.6	3	2.6
37	C323	Software Engineering	2	3	3
38	C324	Fundamentals of Management	2.5	2	2.8
39	C325	Computer Graphics	2.2	2.2	2.8
40	C326	Design and Analysis of Algorithms Lab	2.6	2.2	2.8
41	C327	Computer Networks Lab	2.6	2.2	2.0
42	C328	Software Engineering Lab	2.6	3	2.6
44	C422	Compiler Design	2.8	2.4	2.2
45	C423	Web Technologies	3	2.2	2.4
46	C424	Cryptography and Network Security	2.2	2	2
47	C425	Fundamentals of Robotics	2	2.2	2
48	C426	Design Patterns	2.6	2.4	3
49	C427	Cryptography and Network Security Lab	2.8	2.4	2.2
50	C428	Web Technologies Lab	3	2.4	2.8
51	C429	Advanced English Communication Skills Lab	3	-	-
B.TECH IVYEAR					
52	C521	Data Mining	2.1	2.25	2.25
53	C522	Principles of Programming Languages	1.3	1.5	1.5
54	C523	Python Programming	1.65	1.95	2.25
55	C524	Distributed Systems	1.5	1.4	1.3
56	C525	Cloud Computing	3	3	3
57	C526	Data Mining Lab	2.4	2.2	2
58	C527	Python Programming Lab	2.2	2	2
59	C528	Industry Oriented Mini Project	2.3	2.2	2.5
60	C529	Seminar	2.5	2.5	2.5
61	C631	Organizational Behaviours	2	3	3
62	C632	Real-Time Systems	2	2.6	2.25
63	C633	Web Services and Service Oriented Architecture	2.1	2.1	
64	C634	Major Project	2	2	-
AVERAGE			1.8	2.8	2.4