

P. G. PROGRAMME OUTCOMES

UPON COMPLETION OF THIS PROGRAMME THE STUDENTS WILL BE ABLE TO

- ❖ Instill knowledge and evaluate analytically in their specific disciplines.
- ❖ Analyze and apply the acquired knowledge to solve the complex problems in professional and social life.
- ❖ Evolve new technologies in the specific discipline leading to innovation and employability.
- ❖ Develop critical thinking required to pursue research.
- ❖ Apply the computational skills, life skills to the challenging problems in life.
- ❖ Design and develop independent projects.

P.G. COURSE PATTERN (2023 - 2026) (UGC/ TANSCH/ MTU)-Science

Sem.	Part	Code	Title of the Course	Hours	Credit
I	A	23PXX1C01	CC - 1	6	5
		23PXX1C02	CC - 2	6	5
		23PXX1C03	CC - 3 / Practical	6	5
		23PXX1E1A/ 23PXX1E1B/ 23PXX1E1C	Elective Course - I	6	3
	B	23PXX1SE1	Skill Enhancement Course – 1 (SEC-1)	4	2
		23PAE1SK1	Ability Enhancement Course – 1 (AEC-1) Soft Skill	2	2
			Total	30	22
II	A	23PXX2C04	CC - 4	6	5
		23PXX2C05	CC - 5	6	5
		23PXX2C06	CC - 6 / Practical	6	5
		23PXX2ID1	IDC: Arts, Management to Arts, Management & Science to Science	6	3
	B	23PXX2SE2	Skill Enhancement Course – 2 (SEC-2)	4	2
		23PAE2SK2	Ability Enhancement Course – 2 (AEC- 2): Cyber Security	2	2
	C	23PSL2EX1	Extension Activity (Can be carried outside the class hours)	-	1
		Total	30	23	
III	A	23PXX3C07	CC - 7	6	5
		23PXX3C08	CC - 8	6	5
		23PXX3C09	CC - 9 / Practical	6	5
		23PXX3E2A/ 23PXX3E2B/ 23PXX3E2C	Elective Course - II	6	4
	B	23PXX3SE3	Skill Enhancement Course –3 (SEC- 3) Core Industry Module	6	3
		23PXX3IN1/ 23PXX3IT1	Internship/Industrial Activity (Carried out in summer vacation at the end of Semester II) / (at least 10 Days)	-	2
		Total	30	24	
IV	A	23PXX4C10	CC - 10	6	6
		23PXX4C11	CC - 11	6	5
		23PXX4C12	CC - 12	5	4
		23PXX4E3A/ 23PXX4E3B/ 23PXX4E3C	Elective Course - III	5	3
		23PXX4R01	Project with Viva Voce	6	3
	B	23PXX4SE4	Skill Enhancement Course –4 (SEC – 4) Training for competitive examinations	2	1
			Total	30	22
		Total for All Semesters	120	91	

CONTINUOUS INTERNAL ASSESSMENT COMPONENT (CIA) - 2023-2026 - PG
CIA components for Practical can be decided by the respective Departments.
Passing Minimum in the Continuous Internal Assessment is Compulsory for
appearing the External Semester Examination

THEORY:

Component	Marks	Marks
Internal test I	40	Converted to 25
Internal test II	40	
Seminar	10	
Assignment/Term paper	5	
Attendance	5	
Total	100	25

PRACTICAL:

Continuous Internal Assessment (CIA) - 40 Marks

External Practical Exam - 60 Marks

PROJECT WORK (PG)

The ratio of marks for Internal and External Examination is 50:50. The Internal Components of Project Work are given below:

THE INTERNAL COMPONENTS OF PROJECT

Components	Marks
First Review	10
Second Review	10
Final Review (Internal Viva Voce)	30
Total	50

EXTERNAL VALUATION OF PROJECT WORK

Components	Marks
Project Report	25
External Viva Voce	25
Total	50

INTERNSHIP (PG)

Components	Marks
Internal	50 Marks
External	50 Marks
Total	100 Marks

INTERNAL COMPONENTS:

Components	Marks
Report Submission	25 Marks
Presentation and viva (Internal)	25 Marks
External (Awarded by the Respective Guide / Intern site)	50 Marks

PASSING MINIMUM FOR EXTERNAL SEMESTER EXAMINATION - PG

Semester Examination		
Theory	50% out of 75 Marks (i.e. 37.5 Marks)	50% out of 100 Marks (i.e. 50 Marks)
Practical	50% out of 60 Marks (i.e. 30 Marks)	

INTERNAL QUESTION PATTERN (PG)**Class:****Time: 2 Hours****Date:****Max.: 40 Marks****Code and Title of the Paper**

Course Outcome	Bloom's K-level	Q. No	SECTION
			SECTION – A (10 x 1 = 10 marks) MCQs
			SECTION – B (2 x 5= 10 Marks) Answer ALL Questions. (Internal Choice)
			SECTION – C (2x 10 =20 Marks) Answer All Question. (Internal Choice)

EXTERNAL QUESTION PATTERN

PG External Question Pattern for the courses carrying credits 5 and above

Class:

Time: 3 Hours

Date:

Max.: 100 Marks

Code and Title of the Paper

Course Outcome	Bloom's K-level	Q. No	SECTION
			SECTION – A (15 x 1 = 15 marks) MCQs
			SECTION – B (5× 2= 10 Marks) Questions based on K2 level only. Answer any FIVE Questions out of SEVEN
			SECTION – C (5x 5 =25 Marks) Answer All Question. (Internal Choice, one question from each Unit)
			SECTION – D (5x 10 =50 Marks) Answer All Question. (Internal Choice, one question from each Unit)

EXTERNAL QUESTION PATTERN

PG External Question Pattern for the courses carrying credits below 5

Class:

Time: 2 ½ Hours

Date:

Max.: 75 Marks

Code and Title of the Paper

Course Outcome	Bloom's K-level	Q. No	SECTION
			SECTION – A (15 x 1 = 15 marks) MCQs
			SECTION – B (5x 6 = 30 Marks) Answer All Question. (Internal Choice, one question from each Unit)
			SECTION – C (3x 10 =30 Marks) Answer All Question. (Internal Choice)