

## **U. G. PROGRAMME OUTCOMES**

### **UPON COMPLETION OF THIS PROGRAMME THE STUDENTS WILL BE ABLE TO**

- ❖ Apply scientific knowledge to real life situations to become competent and committed.
- ❖ Acquire Industry specific skills and equip them to emerge as entrepreneurs.
- ❖ Explore the knowledge and acclimatize it in the ever changing work environment.
- ❖ Design and conduct experiments /demos/create models to analyze and interpret data
- ❖ Communicate effectively on the findings of sciences and incorporate with existing knowledge
- ❖ Evolve theories and develop innovative discipline specific ideas.

**U.G. COURSE PATTERN - ( 2023 - 2026) (UGC/ TANSCH/ MTU)-SCIENCE**

Sem.	Part	Code	Title of the Course	Hours	Credit
I	I	23GT1GS01/ 23GH1GS01/	Tamil-I/ Hindi-I	6	3
	II	23GE1GS01	English-I	4	3
	III	23XX1MC01	CC - 1	11 (4+4+3)	8 (4+4)
		23XX1MC02	CC - 2		
		23XX1MC03	CC - 3 (Practical)		
		23XX1AC1A/ 23XX1AC1B	Elective Course - I Discipline Specific Elective (Allied Course-I)	3	3
		23XX1AP1A/ 23XX1AP1B	Allied Practical-I	2	1
	IV	23AE1PE01	<b>Ability Enhancement Course -1 (AEC-1)</b> (Soft skill - 1) Professional English	2	2
	IV	23XX1FC01	<b>Department:</b> Foundation Course	2	2
	V	23STPNS01/ 23STPNC01/ 23STPPE01/ 23STPCC01/ 23STPRR01/ 23STPRC01	<b>Students Training Programme:</b> National Service Scheme/ National Cadet Corps/ Physical Education/ Consumer Club/ Red Ribbon Club/ Youth Red Cross	-	-
<b>Total</b>				<b>30</b>	<b>22</b>
II	I	23GT2GS02/ 23GH2GS02/	Tamil-II/ Hindi-II	6	3
	II	23GE2GS02	English-II	4	3
	III	23XX2MC04	CC - 4	11 (4+4+3)	10 (4+4+2)
		23XX2MC05	CC - 5		
		23XX2MC06	CC - 6 (Practical)		
		23XX2AC2A/ 23XX2AC2B	Elective Course -II Discipline Specific Elective (Allied Course -II)	3	3
		23XX2AP2A/ 23XX2AP2B	Allied Practical-II	2	1
	IV	23AE2VE02	<b>Ability Enhancement Course -2 (AEC-2)</b> (Soft Skill - 2) Value Education	2	2
		23SE2CE02	<b>Skill Enhancement Course-1 (SEC-1) (NME-1)</b> Effective English	2	2
	V	23STPNS01/ 23STPNC01/ 23STPPE01/ 23STPCC01/ 23STPRR01/ 23STPRC01	<b>Students Training Programme:</b> National Service Scheme/ National Cadet Corps/ Physical Education/ Consumer Club/ Red Ribbon Club/ Youth Red Cross	-	-
<b>Total</b>				<b>30</b>	<b>24</b>

Sem.	Part	Code	Title of the Course	Hours	Credit	
III	I	23GT3GS03/ 23GH3GS03/	Tamil-III/ Hindi-III	6	3	
	II	23GE3GS03	English-III	4	3	
	III		23XX3MC07	CC - 7	10	9
			23XX3MC08	CC - 8 (Practical)	(6+4)	(6+3)
			23XX3AC3A/ 23XX3AC3B	Elective Course -III Discipline Specific Elective (Allied Course-III)	3	3
			23XX3AP3A/ 23XX3AP3B	Allied Practical-III	2	1
	IV		23SE3EB03	<b>Skill Enhancement Course-2 (SEC-2)</b> (Entrepreneurial Based)	1	1
			23XX3GE01/ 23GE3NC01	GE -1 (Arts to Arts & Science to Science)/ National Integration and Personality Development	2	2
			23AE3ES03	<b>Ability Enhancement Course -3 (AEC-3)</b> Environmental Studies	2	2
	V		23STPNS01/ 23STPNC01/ 23STPPE01/ 23STPCC01/ 23STPRR01/ 23STPRC01	<b>Students Training Programme:</b> National Service Scheme/ National Cadet Corps/ Physical Education/ Consumer Club/ Red Ribbon Club/ Youth Red Cross	-	-
	<b>Total</b>				<b>30</b>	<b>24</b>
	IV	I	23GT4GS04/ 23GH4GS04/	Tamil-IV/ Hindi-IV	6	3
		II	23GE4GS04	English-IV	4	3
III			23XX4MC09	CC - 9	9	8
			23XX4MC10	CC - 10 (Practical)	(6+3)	(6+2)
			23XX4AC4A/ 23XX4AC4B	Elective Course-IV Discipline Specific Elective (Allied Course-IV)	3	3
			23XX4AP4A/ 23XX4AP4B	Allied Practical-IV	2	1
IV			23SE4CE03	<b>Skill Enhancement Course-3 (SEC-3)</b> Office Fundamentals	3	2
			23XX4GE02/ 23GE4NC02	GE - 2 (Arts to Science & Science to Arts)/ Organization and Health Programme in NCC	2	2
			23AE4CB04	<b>Ability Enhancement Course -4 (AEC-4)</b> Capacity Building	1	1
V			23STPNS01/ 23STPNC01/ 23STPPE01/ 23STPCC01/ 23STPRR01/ 23STPRC01	<b>Students Training Programme:</b> National Service Scheme/ National Cadet Corps/ Physical Education/ Consumer Club/ Red Ribbon Club/ Youth Red Cross	-	1*
<b>Total</b>				<b>30</b>	<b>23+1*</b>	

Sem.	Part	Code	Title of the Course	Hours	Credit
V	III	23XX5MC11	CC - 11	22	16
		23XX5MC12	CC -12		
		23XX5MC13	CC - 13 (Practical)		
		23XX5MC14	CC - 14 (Practical)		
		23XX5DE1A/ 23XX5DE1B/ 23XX5DE1C	<b>Discipline Specific Elective - 1</b>	4	3
	III	23XX5DE2A/ 23XX5DE2B/ 23XX5DE2C	<b>Discipline Specific Elective - 2</b>	4	3
	IV	23XX5IN01/ 23XX5IT01	Internship/ Industrial Training (Carried out in II yea Summer Vacation) (30 hours) / atleast 6 days (IV Sem)	-	2
V	23SLPEX01	<b>Service Learning Programme:</b> Extension JACEP	-	-	
		<b>Total</b>	<b>30</b>	<b>24</b>	
VI	III	23XX6MC15	CC - 15	20	15
		23XX6MC16	CC -16		
		23XX6MC17	CC - 17 (Practical)		
		23XX6MC18	CC -18 (Practical)		
		23XX6PR01	Project*/project based learning for CS*		
		23XX6DE3A/ 23XX6DE3B/ 23XX6DE3C	<b>Discipline Specific Elective - 3</b>	3	2
	IV	23SE6XX01	<b>Skill Enhancement Course-4 (SEC-4) (Domain Specific Skill Courses)</b>	3	2
V	23XX6SS01/ 23XX6SS02/ 23XX6SS03/ 23XX6SS04/ 23XX6SM01	<b>Self Study Course:</b>  MOOCs	-	2*	
	23SLPEX01	<b>Service Learning Programme:</b> Extension JACEP	-	1	
		<b>Total</b>	<b>30</b>	<b>23+2*</b>	
		<b>Total</b>	<b>180</b>	<b>140+3*</b>	

\* Extra Credits - Self Study Paper, MOOCs

\* Group Project

**K1** - Remember; **K2** - Understand; **K3** - Apply; **K4** - Analyze; **K5** - Evaluate; **K6** - Create

## **CONTINUOUS INTERNAL ASSESSMENT COMPONENT (CIA) - 2023-2026 -UG**

**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:**

<b>Component</b>	<b>Marks</b>	<b>Marks</b>
Internal test I	40	Converted to 25
Internal test II	40	
Quiz	10	
Assignment	5	
Attendance	5	
<b>Total</b>	<b>100</b>	<b>25</b>

### **PRACTICAL:**

**Continuous Internal Assessment (CIA) - 40 Marks**

**External Practical Exam - 60 Marks**

### **PROJECT WORK (UG)**

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**

<b>Components</b>	<b>Marks</b>
First Review	10
Second Review	10
Final Review (Internal Viva Voce)	30
<b>Total</b>	<b>50</b>

#### **EXTERNAL VALUATION OF PROJECT WORK**

<b>Components</b>	<b>Marks</b>
Project Report	25
External Viva Voce	25
<b>Total</b>	<b>50</b>

### INTERNSHIP (UG)

Components	Marks
Internal	50 Marks
External	50 Marks
<b>Total</b>	<b>100 Marks</b>

### 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 -UG

Semester Examination		
Theory	40% out of 75 Marks (i.e. 30 Marks)	40% out of 100 Marks (i.e. 40 Marks)
Practical	40% out of 60 Marks (i.e. 24 Marks)	

### INTERNAL QUESTION PATTERN (UG)

**Class:**

**Time: 2 Hours**

**Date:**

**Max.: 40 Marks**

### 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

#### UG External Question Pattern for the courses carrying credits 5 and above

Class:

Time: 3 Hours

Date:

Max.: 100 Marks

#### Title of the Paper

Course Outcome	Bloom's K-level	Q. No	SECTION
			SECTION – A (15 x 1 = 15 marks) MCQs
			SECTION – B (5x 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

#### UG External Question Pattern for the courses carrying credits below 5

Class:

Time: 2 ½ Hours

Date:

Max.: 75 Marks

#### 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)