

### 13. COURSES OF STUDY AND SCHEME OF ASSESSMENT MSC THEORETICAL COMPUTER SCIENCE

(2020 REGULATIONS)  
(Minimum No. of credits to be earned: 216\*)

Note: Click on the course code / title for the detailed syllabus

Course Code	Course Title	Hours / Week			Credit	Prerequisite courses	Maximum marks			CAT
		L	T	P			CA	FE	Total	
<b>I SEMESTER</b>										
20XT11	CALCULUS AND ITS APPLICATIONS	3	2	0	4	NA	50	50	100	BS
20XT12	APPLIED PHYSICS	4	0	0	4	NA	50	50	100	BS
20XT13	ANALOG AND DIGITAL ELECTRONICS	4	0	0	4	NA	50	50	100	BS
20XT14	PROBLEM SOLVING AND C PROGRAMMING	4	0	0	4	NA	50	50	100	PC
20XT15	ENGLISH FOR PROFESSIONAL SKILLS	3	0	0	3	NA	50	50	100	HS
20XT16	APPLIED PHYSICS AND DIGITAL ELECTRONICS LAB	0	0	4	2	NA	100	-	100	BS
20XT17	C PROGRAMMING LAB	0	0	4	2	NA	100	-	100	PC
20XT18	MATHEMATICS LABORATORY	0	0	4	2	NA	100	-	100	PC
20XT29	PERSONALITY AND CHARACTER DEVELOPMENT	0	0			** Refer Sem 2 and footnote				MC
<b>Total 32 Hrs</b>		<b>18</b>	<b>2</b>	<b>12</b>	<b>25</b>		<b>550</b>	<b>250</b>	<b>800</b>	

<b>II SEMESTER</b>										
20XT21	DISCRETE STRUCTURES	3	2	0	4	NA	50	50	100	BS
20XT22	COMPLEX VARIABLES AND TRANSFORMS	3	2	0	4	20XT11	50	50	100	BS
20XT23	ABSTRACT ALGEBRA	4	0	0	4	NA	50	50	100	BS
20XT24	DATA STRUCTURES AND ALGORITHMS	3	0	0	3	20XT14	50	50	100	PC
20XT25	OBJECT ORIENTED PROGRAMMING	3	0	0	3	20XT14	50	50	100	PC
20XT26	COMPUTATIONAL MATHEMATICS LAB WITH PYTHON	0	0	4	2	REFER 20XT22	100	-	100	PC
20XT27	DATA STRUCTURES LAB	0	0	4	2	REFER 20XT24	100	-	100	PC
20XT28	OBJECT ORIENTED PROGRAMMING LAB	0	0	4	2	REFER 20XT25	100	-	100	PC
20XT29	PERSONALITY AND CHARACTER DEVELOPMENT	0	0			**Grade - - -				MC
<b>Total 32 Hrs</b>		<b>16</b>	<b>4</b>	<b>12</b>	<b>24</b>		<b>550</b>	<b>250</b>	<b>800</b>	

**Note:** Click on the course code / title for the detailed syllabus

Course Code	Course Title	Hours / Week			Credit	Prerequisite courses	Maximum marks			CAT
		L	T	P			CA	FE	Total	
<b>III SEMESTER</b>										
20XT31	LINEAR ALGEBRA	3	2	0	4	20XT21	50	50	100	BS
20XT32	GRAPH THEORY	4	0	0	4	20XT21, 20XT24	50	50	100	BS
20XT33	PROBABILITY AND STATISTICS	4	0	0	4	20XT11	50	50	100	BS
20XT34	ADVANCED DATA STRUCTURES	4	0	0	4	20XT21, 20XT24	50	50	100	PC
20XT35	COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE PROGRAMMING	3	0	0	3	20XT13	50	50	100	PC
20XT36	STATISTICAL COMPUTING AND R PROGRAMMING LAB	0	0	4	2	REFER 20XT33	100	-	100	BS
20XT37	ADVANCED DATA STRUCTURES LAB	0	0	4	2	REFER 20XT34	100	-	100	PC
20XT38	ASSEMBLY LANGUAGE PROGRAMMING LAB	0	0	4	2	REFER 20XT35	100	-	100	PC
<b>Total 32 Hrs</b>		<b>18</b>	<b>2</b>	<b>12</b>	<b>25</b>		<b>550</b>	<b>250</b>	<b>800</b>	

<b>IV SEMESTER</b>										
20XT41	STOCHASTIC PROCESSES	3	2	0	4	20XT31,20XT33	50	50	100	BS
20XT42	DATABASE DESIGN	3	0	0	3	20XT21 20XT24, 20XT34	50	50	100	PC
20XT43	OPTIMIZATION TECHNIQUES	3	2	0	4	20XT31	50	50	100	BS
20XT44	OPERATING SYSTEMS	4	0	0	4	20XT14 20XT24, 20XT35	50	50	100	PC
20XT45	COMPUTER NETWORKS	3	0	0	3	20XT35	50	50	100	PC
20XT46	RDBMS LAB	0	0	4	2	REFER 20XT42	100	-	100	PC
20XT47	OPERATING SYSTEMS LAB (LINUX)	0	0	4	2	REFER 20XT44	100	-	100	PC
20XT48	COMPUTER NETWORKS LAB	0	0	4	2	REFER 20XT45	100	-	100	PC
<b>Total 32 Hrs</b>		<b>16</b>	<b>4</b>	<b>12</b>	<b>24</b>		<b>550</b>	<b>250</b>	<b>800</b>	

**Note:** Click on the course code / title for the detailed syllabus

Course Code	Course Title	Hours/Week			Credit	Prerequisite courses	Maximum marks			CAT
		L	T	P			CA	FE	Total	
<b>V SEMESTER</b>										
20XT51	THEORY OF COMPUTING	3	0	0	3	20XT21, 20XT24	50	50	100	PC
20XT52	COMPUTATIONAL NUMBER THEORY AND CRYPTOGRAPHY	4	0	0	4	20XT23, 20XT31	50	50	100	PC
20XT53	MACHINE LEARNING	3	2	0	4	20XT11,20XT31 20XT33,20XT43	50	50	100	PC
20XT54	DESIGN AND ANALYSIS OF ALGORITHMS	3	0	0	3	20XT21, 20XT24 20XT34, 20XT43	50	50	100	PC
20XTE_	PROFESSIONAL ELECTIVE - I	3	2	0	4	REFER THE COURSE	50	50	100	PE
20XT56	SCIENTIFIC COMPUTING LAB	0	0	4	2	REFER 20XT31	100	-	100	PC
20XT57	DESIGN AND ANALYSIS OF ALGORITHMS LAB	0	0	4	2	REFER 20XT54	100	-	100	PC
20XT58	JAVA PROGRAMMING LAB	0	0	4	2	20XT24, 20XT25, 20XT44	100	-	100	PC
<b>TOTAL 32 HRS</b>		<b>16</b>	<b>4</b>	<b>12</b>	<b>24</b>		<b>550</b>	<b>250</b>	<b>800</b>	

<b>VI SEMESTER</b>										
20XT61	SOFTWARE ENGINEERING	3	2	0	4	20XT25	50	50	100	PC
20XT62	COMPUTER GRAPHICS AND VISUALIZATION	3	0	0	3	20XT24, 20XT31	50	50	100	PC
20XT63	ARTIFICIAL INTELLIGENCE	3	0	0	3	20XT21, 20XT24 20XT32, 20XT33	50	50	100	PC
20XT64	PRINCIPLES OF COMPILER DESIGN	3	0	0	3	20XT24, 20XT32 20XT51	50	50	100	PC
20XTE_	PROFESSIONAL ELECTIVE – II	3	2	0	4	REFER THE COURSE	50	50	100	PE
20XT66	COMPUTER GRAPHICS AND VISUALIZATION LAB	0	0	4	2	REFER 20XT62	100	-	100	PC
20XT67	ARTIFICIAL INTELLIGENCE LAB	0	0	4	2	REFER 20XT63	100	-	100	PC
20XT68	COMPILER DESIGN LAB	0	0	4	2	REFER 20XT62	100	-	100	PC
<b>TOTAL 31 HRS</b>		<b>15</b>	<b>4</b>	<b>12</b>	<b>23</b>		<b>550</b>	<b>250</b>	<b>800</b>	

<b>VII SEMESTER</b>										
20XTP1	PROJECT WORK 1 – INDUSTRY / RESEARCH PROJECT	0	0	-	12		50	50	100	EEC

**Note:** Click on the course code / title for the detailed syllabus

Course Code	Course Title	Hours/Week			Credit	Prerequisite courses	Maximum marks			CAT
		L	T	P			CA	FE	Total	
<b>VIII SEMESTER</b>										
20XT81	DEEP LEARNING	3	2	0	4	20XT63	50	50	100	PC
20XT82	PARALLEL AND DISTRIBUTED COMPUTING	3	0	0	3	20XT35, 20XT44, 20XT45	50	50	100	PC
20XT83	DATA MINING	3	0	0	3	20XT53	50	50	100	PC
20XTE_	PROFESSIONAL ELECTIVE – III	3	2	0	4	REFER THE COURSE	50	50	100	PE
20XTO_	OPEN ELECTIVE – I	3	2	0	4	REFER THE COURSE	50	50	100	OE
20XT86	PARALLEL AND DISTRIBUTED COMPUTING LAB	0	0	4	2	REFER 20XT82	100	-	100	PC
20XT87	DATA MINING LAB	0	0	4	2	REFER 20XT83	100	-	100	PC
20XT88	RESEARCH SPECIALIZATION LAB - I	0	0	4	2	NA	100	-	100	EEC
<b>TOTAL 32 HRS</b>		<b>15</b>	<b>6</b>	<b>12</b>	<b>24</b>		<b>550</b>	<b>250</b>	<b>800</b>	

<b>IX SEMESTER</b>										
20XT91	GAME THEORY	3	0	0	3	20XT11, 20XT21, 20XT33	50	50	100	PC
20XT92	MATHEMATICAL MODELLING	3	0	0	3	20XT33, 20XT41, 20XT43	50	50	100	PC
20XT93	INFORMATION RETRIEVAL AND WEB SEARCH	3	0	0	3	20XT31, 20XT33 20XT34	50	50	100	PC
20XTE_	PROFESSIONAL ELECTIVE – IV (SELF STUDY)	3	2	0	4	REFER THE COURSE	50	50	100	PE
20XTO_	OPEN ELECTIVE – II	3	2	0	4	REFER THE COURSE	50	50	100	OE
20XT96	MODELLING AND SIMULATION LAB	0	0	4	2	REFER 20XT92	100	-	100	PC
20XT97	INFORMATION RETRIEVAL AND WEB SEARCH LAB	0	0	4	2	REFER 20XT93	100	-	100	PC
20XT98	RESEARCH SPECIALIZATION LAB - II	0	0	4	2	NA	100	-	100	EEC
<b>TOTAL 31 HRS</b>		<b>15</b>	<b>4</b>	<b>12</b>	<b>23</b>		<b>550</b>	<b>250</b>	<b>800</b>	

<b>X SEMESTER</b>										
20XTP2	PROJECT WORK II – INDUSTRY / RESEARCH PROJECT	0	0	-	12		50	50	100	EEC

**LIST OF PROFESSIONAL ELECTIVES****Note:** Click on the course code / title for the detailed syllabus

Course Code	Course Title	Hours/Week			Credit	Prerequisite courses	Maximum marks			CAT
		L	T	P			CA	FE	Total	
<b>PROFESSIONAL ELECTIVES (Four to be opted)</b>										
20XTE1	REINFORCEMENT LEARNING	3	2	0	4	20XT53, 20XT63	50	50	100	PE
20XTE2	SOFTWARE PATTERNS	3	2	0	4	20XT25, 20XT58 20XT61	50	50	100	PE
20XTE3	NATURAL LANGUAGE PROCESSING	3	2	0	4	20XT53, 20XT63	50	50	100	PE
20XTE4	APPROXIMATION ALGORITHMS	3	2	0	4	20XT31, 20XT43, 20XT54	50	50	100	PE
20XTE5	NETWORK ALGORITHMS	3	2	0	4	20XT47	50	50	100	PE
20XTE6	SOCIAL NETWORK ANALYSIS	3	2	0	4	20XT24, 20XT32	50	50	100	PE
20XTE7	ADVANCED COMPUTER GRAPHICS	3	2	0	4	20XT62	50	50	100	PE
20XTE8	COMPUTER VISION AND IMAGE ANALYSIS	3	2	0	4	20XT24, 20XT31 20XT33	50	50	100	PE
20XTE9	DATA COMPRESSION	3	2	0	4	20XT22, 20XT24 20XT33	50	50	100	PE
20XTEA	RANDOMIZED ALGORITHMS	3	2	0	4	20XT33, 20XT34, 20XT41, 20XT54	50	50	100	PE
20XTEB	SECURITY IN COMPUTING	3	2	0	4	20XT44, 20XT45 20XT52	50	50	50	PE
20XTEC	ADVANCED OPERATING SYSTEMS	3	2	0	4	20XT14, 20XT35 20XT44	50	50	100	PE
20XTED	EXACT ALGORITHMS FOR HARD PROBLEMS	3	2	0	4	20XT54	50	50	100	PE
20XTEE	MOBILE COMPUTING	3	2	0	4	20XT45, 20XT58	50	50	100	PE
20XTEF	BIG DATA AND MODERN DATABASE SYSTEMS	3	2	0	4	20XT34, 20XT42	50	50	100	PE
20XTEG	NETWORK SCIENCE	3	2	0	4	20XT32, 20XT33, 20XT34	50	50	100	PE
20XTEH	SECURITY MODELLING AND ANALYSIS	3	2	0	4	20XT52	50	50	100	PE
20XTEI	INTERNET OF THINGS	3	2	0	4	20XT44, 20XT45	50	50	100	PE
20XTEJ	EPIDEMIC MODELS	3	2	0	4	20XT11, 20XT32	50	50	100	PE
20XTEK	STATISTICAL LEARNING	3	2	0	4	20XT33, 20XT53	50	50	100	PE
20XTEL	LARGE SCALE MACHINE LEARNING	3	2	0	4	20XT43, 20XT53	50	50	100	PE
20XTEM	COMPUTATIONAL GEOMETRY	3	2	0	4	20XT32, 20XT34	50	50	100	PE

**LIST OF OPEN ELECTIVES****Note:** Click on the course code / title for the detailed syllabus

Course Code	Course Title	Hours/Week			Credit	Prerequisite courses	Maximum marks			CAT
		L	T	P			CA	FE	Total	
<b>OPEN ELECTIVES (Two to be opted)</b>										
20XTO1	COMPUTATIONAL FINANCE	3	2	0	4	20XT11, 20XT33 20XT41	50	50	100	OE
20XTO2	PRINCIPLES OF MANAGEMENT AND BEHAVIORAL SCIENCES	3	2	0	4		50	50	100	OE
20XTO3	ENTREPRENEURSHIP	3	2	0	4		50	50	100	OE
20XTO4	COMPUTATIONAL COMPLEXITY THEORY	3	2	0	4	20XT51, 20XT54	50	50	100	OE
20XTO5	WIRELESS NETWORKS	3	2	0	4	20XT45	50	50	100	OE
20XTO6	COMPUTATIONAL FOUNDATIONS FOR ROBOTICS	3	2	0	4		50	50	100	OE
20XTO7	GEOMETRY FOR GRAPHICS	3	2	0	4	20XT31	50	50	100	OE
20XTO	DIGITAL TOPOLOGY	3	2	0	4	20XT21	50	50	100	OE
20XTO	ENVIRONMENTAL SCIENCE AND GREEN COMPUTING	3	2	0	4		50	50	100	OE
20XTOA	FUNCTIONAL ANALYSIS	3	2	0	4	20XT11, 20XT31	50	50	100	OE

\* Indicated is the minimum number of credits to be earned by a student.

\*\* - Total 40 hrs in semesters I &amp; II put together. Grade: Completed / Not Completed.

**CA – Continuous Assessment ; FE – Final Examination; CAT – Category; BS – Basic Sciences; HS – Humanities & Social Sciences; ES – Engineering Sciences; PC – Professional Core; PE – Professional Elective; OE – Open Elective; EEC – Employability Enhancement Course, MC – Mandatory Course.**

**LABELING & GROUP OF COURSES**

<b>PROFESSIONAL CORE (PC)</b>			
<b>Sl.No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L:T:P:C</b>
1.	20XT14	PROBLEM SOLVING AND C PROGRAMMING	4:0:0:4
2.	20XT17	C PROGRAMMING LAB	0:0:4:2
3.	20XT18	MATHEMATICS LABORATORY	0:0:4:2
4.	20XT24	DATA STRUCTURES AND ALGORITHMS	3:0:0:3
5.	20XT25	OBJECT ORIENTED PROGRAMMING	3:0:0:3
6.	20XT26	COMPUTATIONAL MATHEMATICS LAB WITH PYTHON	0:0:4:2
7.	20XT27	DATA STRUCTURES LAB	0:0:4:2
8.	20XT28	OBJECT ORIENTED PROGRAMMING LAB	0:0:4:2
9.	20XT34	ADVANCED DATA STRUCTURES	4:0:0:4
10.	20XT35	COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE PROGRAMMING	3:0:0:3
11.	20XT37	ADVANCED DATA STRUCTURES LAB	0:0:4:2
12.	20XT38	ASSEMBLY LANGUAGE PROGRAMMING LAB	0:0:4:2
13.	20XT42	DATABASE DESIGN	3:0:0:3
14.	20XT44	OPERATING SYSTEMS	4:0:0:4
15.	20XT45	COMPUTER NETWORKS	3:0:0:3
16.	20XT46	RDBMS LAB	0:0:4:2
17.	20XT47	OPERATING SYSTEMS LAB (LINUX)	0:0:4:2
18.	20XT48	COMPUTER NETWORKS LAB	0:0:4:2
19.	20XT51	THEORY OF COMPUTING	4:0:0:4
20.	20XT52	COMPUTATIONAL NUMBER THEORY AND CRYPTOGRAPHY	4:0:0:4
21.	20XT53	MACHINE LEARNING	3:2:0:4
22.	20XT54	DESIGN AND ANALYSIS OF ALGORITHMS	3:0:0:3
23.	20XT56	SCIENTIFIC COMPUTING LAB	0:0:4:2
24.	20XT57	DESIGN AND ANALYSIS OF ALGORITHMS LAB	0:0:4:2
25.	20XT58	JAVA PROGRAMMING LAB	0:0:4:2
26.	20XT61	SOFTWARE ENGINEERING	3:2:0:4
27.	20XT62	COMPUTER GRAPHICS AND VISUALIZATION	3:0:0:3
28.	20XT63	ARTIFICIAL INTELLIGENCE	3:0:0:3
29.	20XT64	PRINCIPLES OF COMPILER DESIGN	3:0:0:3

30.	20XT66	COMPUTER GRAPHICS AND VISUALIZATION LAB	0:0:4:2
31.	20XT67	ARTIFICIAL INTELLIGENCE LAB	0:0:4:2
32.	20XT68	COMPILER DESIGN LAB	0:0:4:2
33.	20XT81	DEEP LEARNING	3:0:0:3
34.	20XT82	PARALLEL AND DISTRIBUTED COMPUTING	3:0:0:3
35.	20XT83	DATA MINING	3:0:0:3
36.	20XT86	PARALLEL AND DISTRIBUTED COMPUTING LAB	0:0:4:2
37.	20XT87	DATA MINING LAB	0:0:4:2
38.	20XT91	GAME THEORY	3:0:0:3
39.	20XT92	MATHEMATICAL MODELLING	3:0:0:3
40.	20XT93	INFORMATION RETRIEVAL AND WEB SEARCH	3:0:0:3
41.	20XT96	MODELLING AND SIMULATION LAB	0:0:4:2
42.	20XT97	INFORMATION RETRIEVAL AND WEB SEARCH LAB	0:0:4:2

<b>PROFESSIONAL ELECTIVES (PE)</b>				
<b>Sl. No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L:T:P:C</b>	<b>PREFERRED SEMESTER</b>
1.	20XTE1	REINFORCEMENT LEARNING	3:2:0:2	From VIII
2.	20XTE2	SOFTWARE PATTERNS	3:2:0:2	From VIII
3.	20XTE3	NATURAL LANGUAGE PROCESSING	3:2:0:2	From VIII
4.	20XTE4	APPROXIMATION ALGORITHMS	3:2:0:2	From VI
5.	20XTE5	NETWORK ALGORITHMS	3:2:0:2	From V
6.	20XTE6	SOCIAL NETWORK ANALYSIS	3:2:0:2	From V
7.	20XTE7	ADVANCED COMPUTER GRAPHICS	3:2:0:2	From VIII
8.	20XTE8	COMPUTER VISION AND IMAGE ANALYSIS	3:2:0:2	From V
9.	20XTE9	DATA COMPRESSION	3:2:0:2	From V
10.	20XTEA	RANDOMIZED ALGORITHMS	3:2:0:2	From VI
11.	20XTEB	SECURITY IN COMPUTING	3:2:0:2	From VI
12.	20XTEC	ADVANCED OPERATING SYSTEMS	3:2:0:2	From V
13.	20XTED	EXACT ALGORITHMS FOR HARD PROBLEMS	3:2:0:2	From VI
14.	20XTEE	MOBILE COMPUTING	3:2:0:2	From VI
15.	20XTEF	BIG DATA AND MODERN DATABASE SYSTEMS	3:2:0:2	From V
16.	20XTEG	NETWORK SCIENCE	3:2:0:2	From V



17.	20XTEH	SECURITY MODELLING AND ANALYSIS	3:2:0:2	From VI
18.	20XTEI	INTERNET OF THINGS	3:2:0:2	From V
19.	20XTEJ	EPIDEMIC MODELS	3:2:0:2	From V
20.	20XTEK	STATISTICAL LEARNING	3:2:0:2	From VI
21.	20XTEL	LARGE SCALE MACHINE LEARNING	3:2:0:2	From VI
22.	20XTEM	COMPUTATIONAL GEOMETRY	3:2:0:2	From V

<b>OPEN ELECTIVES (OE)</b>				
<b>Sl.No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L:T:P:C</b>	<b>PREFERRED SEMESTER</b>
1.	20XTO1	COMPUTATIONAL FINANCE	3:2:0:2	From VIII or IX
2.	20XTO2	PRINCIPLES OF MANAGEMENT AND BEHAVIORAL SCIENCES	3:2:0:2	From VIII or IX
3.	20XTO3	ENTREPRENEURSHIP	3:2:0:2	From VIII or IX
4.	20XTO4	COMPUTATIONAL COMPLEXITY THEORY	3:2:0:2	From VIII or IX
5.	20XTO5	WIRELESS NETWORKS	3:2:0:2	From VIII or IX
6.	20XTO6	COMPUTATIONAL FOUNDATIONS FOR ROBOTICS	3:2:0:2	From VIII or IX
7.	20XTO7	GEOMETRY FOR GRAPHICS	3:2:0:2	From VIII or IX
8.	20XTO8	DIGITAL TOPOLOGY	3:2:0:2	From VIII or IX
9.	20XTO9	ENVIRONMENTAL SCIENCE AND GREEN COMPUTING	3:2:0:2	From VIII or IX
10.	20XTOA	FUNCTIONAL ANALYSIS	3:2:0:2	From VIII or IX

<b>BASIC SCIENCE (BS)</b>			
<b>Sl.No.</b>	<b>Course Code</b>	<b>Course Title</b>	<b>L:T:P:C</b>
1.	20XT11	CALCULUS AND ITS APPLICATIONS	3:2:0:2
2.	20XT12	APPLIED PHYSICS	4:0:0:4
3.	20XT13	ANALOG AND DIGITAL ELECTRONICS	4:0:0:4
4.	20XT16	APPLIED PHYSICS AND DIGITAL ELECTRONICS LAB	4:0:0:4
5.	20XT21	DISCRETE STRUCTURES	3:2:0:2
6.	20XT22	COMPLEX VARIABLES AND TRANSFORMS	3:2:0:2
7.	20XT23	ABSTRACT ALGEBRA	3:2:0:2
8.	20XT31	LINEAR ALGEBRA	4:0:0:4
9.	20XT32	GRAPH THEORY	4:0:0:4
10.	20XT33	PROBABILITY AND STATISTICS	4:0:0:4

11.	20XT36	STATISTICAL COMPUTING AND R PROGRAMMING LAB	0:0:4:2
12.	20XT41	STOCHASTIC PROCESSES	3:2:0:2
13.	20XT43	OPTIMIZATION TECHNIQUES	3:2:0:2

#### HUMANITIES AND SOCIAL SCIENCES(HS)

Sl.No.	Course Code	Course Title	L:T:P:C
1.	20XT15	ENGLISH FOR PROFESSIONAL SKILLS	3:0:0:3

#### EMPLOYMENT ENHANCEMENT COURSES (EEC)

Sl.No.	Course Code	Course Title	L:T:P:C
1.	20XTP1	PROJECT WORK 1 – INDUSTRY / RESEARCH PROJECT	0:0:0:12
2.	20XTP2	PROJECT WORK II – INDUSTRY / RESEARCH PROJECT	0:0:0:12
3.	20XT88	RESEARCH SPECIALIZATION LAB - I	0:0:4:2
4.	20XT98	RESEARCH SPECIALIZATION LAB - II	0:0:4:2

