



Y23

HANDBOOK

B.Tech 2023-24 Admitted Batch Category wise Course Structure

Sl No	Course Code	Course Title	Category	L	T	P	S	Cr	CH	Pre-requisite
1	23UC0017	INDIAN KNOWLEDGE SYSTEMS - VEDIC MATHEMATICS	AUC	0	0	0	2	0	2	NIL
2	23UC0018	FUNDAMENTALS OF MATHEMATICS (Bi.P.C)	AUC	3	0	0	0	0	3	NIL
3	22UC0011	GENDER & SOCIAL EQUALITY	AUC	2	0	0	0	0	2	NIL
4	23UC0019	ESSENCE OF INDIAN KNOWLEDGE TRADITION	AUC	2	0	0	0	0	2	NIL
5	22UC0008	INDIAN CONSTITUTION	AUC	2	0	0	0	0	2	NIL
6	22UC0009	ECOLOGY & ENVIRONMENT	AUC	2	0	0	0	0	2	NIL
7	22UC0020T	ANCIENT INDIAN COMPUTING: A HISTORICAL AND CULTURAL PERSPECTIVE	AUC	2	0	0	0	0	2	NIL
8	23UC1101	INTEGRATED PROFESSIONAL ENGLISH	HAS	0	0	4	0	2	4	NIL
9	23UC1202	ENGLISH PROFICIENCY	HAS	0	0	4	0	2	4	NIL
10	22UC2103	ESSENTIAL SKILLS FOR EMPLOYABILITY	HAS	0	0	4	0	2	4	NIL
11	22UC2204	CORPORATE READINESS SKILLS	HAS	0	0	4	0	2	4	NIL
12	22UC0010	UNVIERSAL HUMAN VALUES & PROFESSIONAL ETHICS	HAS	2	0	0	0	2	2	NIL
13	22UC1203	DESIGN THINKING & INNOVATION	HAS	0	0	4	0	2	4	NIL
14	22UC0012	INNOVATION MANAGEMENT	HAS	0	0	4	0	2	4	NIL
15	22MBXXXX	MANAGEMENT ELECTIVE	HAS	2	0	0	0	2	2	NIL
16	22FLXXXX	FOREIGN LANGUAGE ELECTIVE	HAS	2	0	0	0	2	2	NIL
17	23UC0021	SOCIAL IMMERSIVE LEARNING - 1	SIL	0	0	0	4	1	4	NIL
18	23UC0022	SOCIAL IMMERSIVE LEARNING - 2	SIL	0	0	0	4	1	4	NIL
19	23UC0023	SOCIAL IMMERSIVE LERANING - 3	SIL	0	0	0	4	1	4	NIL
20	23UC0024	SOCIAL IMMERSIVE LEARNING - 4	SIL	0	0	0	4	1	4	NIL
21	23UC0025	SOCIAL IMMERSIVE LEARNING - 5	SIL	0	0	0	4	1	4	NIL
22	23MT1001	LINEAR ALGEBRA & CALCULUS FOR ENGINEERS	BSC	2	2	0	0	4	4	NIL
23	23MT1002	DISCRETE STRUCTURES	BSC	2	2	0	0	4	4	NIL
24	22MT2005	PROBABILITY, STATISTICS & QUEUEING THEORY	BSC	2	2	0	0	4	4	NIL
25	22MT2004	MATHEMATICAL PROGRAMMING	BSC	2	2	0	0	4	4	NIL

26	22PH1006	QUANTUM PHYSICS FOR ENGINEERS	BSC	3	0	2	0	4	5	NIL
27	22CY1001	ENGINEERING CHEMSITRY	BSC	3	0	2	0	4	5	NIL
28	23SC1101	COMPUTATIONAL THINKING FOR STRUCTURED DESIGN	ESC	3	0	2	4	5	9	NIL
29	23SC1202	DATA STRUCTURES	ESC	2	0	2	4	4	8	CTSD
30	22ME1103	DESIGN TOOL WORKSHOP	ESC	0	0	4	0	2	4	NIL
31	23EC1203	BASIC ELECTRICAL & ELECTRONIC CIRCUITS	ESC	2	0	0	0	2	2	NIL
32	22UC3108	PROBLEM SOLVING & REASONING SKILLS-1	ESC	0	0	0	4	1	4	NIL
33	22UC3209	PROBLEM SOLVING & REASONING SKILLS-2	ESC	0	0	0	4	1	4	NIL
34	23EC1202	DIGITAL DESIGN & COMPUTER ARCHITECTURE	ESC	3	0	2	0	4	5	NIL
35	23SC1203	COMPUTATIONAL THINKING FOR OBJECT-ORIENTED DESIGN	ESC	2	0	2	4	4	8	CTSD
36	23EC1101	FUNDAMENTALS OF IOT & SENSORS	ESC	3	0	4	0	5	7	NIL
37	22CS2103R	ADVANCED OBJECT-ORIENTED PROGRAMMING	PCC	2	0	2	4	4	8	CTOD
38	22CS2103A	ADVANCED OBJECT-ORIENTED PROGRAMMING	PCC	4	0	4	0	6	8	CTOD
39	22CS2103P	ADVANCED OBJECT-ORIENTED PROGRAMMING	PCC	4	0	4	0	6	8	CTOD
40	22CS2205R	DESIGN & ANALYSIS OF ALGORITHMS	PCC	2	0	2	4	4	8	DS
41	22CS2205A	DESIGN & ANALYSIS OF ALGORITHMS	PCC	4	0	4	0	6	8	DS
42	22CS2205P	DESIGN & ANALYSIS OF ALGORITHMS	PCC	4	0	4	0	6	8	DS
43	22CI3004R	ENTERPRISE PROGRAMMING	PCC	2	0	2	4	4	8	CTOD
44	22CI3004A	ENTERPRISE PROGRAMMING	PCC	3	0	4	4	6	11	CTOD
45	22CI3004P	ENTERPRISE PROGRAMMING	PCC	3	0	4	4	6	11	CTOD
46	22EC2210	NETWORK PROTOCOLS & SECURITY	PCC	3	0	2	0	4	5	DDCA
47	22EC2210A	NETWORK PROTOCOLS & SECURITY	PCC	4	0	4	0	6	8	DDCA
48	22EC2210P	NETWORK PROTOCOLS & SECURITY	PCC	4	0	4	0	6	8	DDCA
49	22AD2001	DATA DRIVEN ARTIFICIAL INTELLIGENT SYSTEMS	PCC	2	0	2	0	3	4	CTSD
50	22AD2001A	DATA DRIVEN ARTIFICIAL INTELLIGENT SYSTEMS	PCC	3	0	4	0	5	7	CTSD
51	22AD2001P	DATA DRIVEN ARTIFICIAL INTELLIGENT SYSTEMS	PCC	3	0	4	0	5	7	CTSD
52	22CS2104R	OPERATING SYSTEMS	PCC	2	0	2	0	3	4	DLP
53	22CS2104A	OPERATING SYSTEMS	PCC	3	0	4	0	5	7	DLP
54	22CS2104P	OPERATING SYSTEMS	PCC	3	0	4	0	5	7	DLP

55	22CI2001	ADAPTIVE SOFTWARE ENGINEERING	PCC	2	1	0	0	3	3	NIL
56	22AD2102R	DATABASE MANAGEMENT SYSTEMS	PCC	2	0	2	0	3	4	DDCA
57	22AD2102A	DATABASE MANAGEMENT SYSTEMS	PCC	3	0	4	0	5	7	DDCA
58	22AD2102P	DATABASE MANAGEMENT SYSTEMS	PCC	3	0	4	0	5	7	DDCA
59	22CS2002R	AUTOMATA THEORY & FORMAL LANGUAGES	PCC	2	1	0	0	3	3	DIS
60	22CS2002A	AUTOMATA THEORY & FORMAL LANGUAGES	PCC	3	1	2	0	5	6	DIS
61	22CS2002F	AUTOMATA THEORY & FORMAL LANGUAGES	PCC	3	1	2	0	5	6	DIS
62	22CI2002	CONTINUOUS DELIVERY & DEVOPS	PCC	2	0	2	4	4	8	ASE
63	22CI2002A	CONTINUOUS DELIVERY & DEVOPS	PCC	3	0	4	4	6	11	ASE
64	22CI2002P	CONTINUOUS DELIVERY & DEVOPS	PCC	3	0	4	4	6	11	ASE
65	22CI2203	MANAGEMENT INFORMATION SYSTEMS	PCC	2	1	0	0	3	3	ASE
66		FLEXI-CORE - 1	PCC	2	0	2	0	3	4	RELEVENT COURSE
67		FLEXI-CORE - 2	PCC	2	0	2	0	3	4	RELEVENT COURSE
68		FLEXI-CORE - 3	PCC	3	0	0	0	3	3	RELEVENT COURSE
69		PROFESSIONAL ELECTIVE - 1	PEC	2	0	2	4	4	8	RELEVENT COURSE
70		PROFESSIONAL ELECTIVE - 1	PEC	3	0	4	4	6	11	RELEVENT COURSE
71		PROFESSIONAL ELECTIVE - 1	PEC	3	0	4	4	6	11	RELEVENT COURSE
72		PROFESSIONAL ELECTIVE - 2	PEC	2	0	2	0	3	4	RELEVENT COURSE
73		PROFESSIONAL ELECTIVE - 3	PEC	2	0	2	4	4	8	RELEVENT COURSE
74		PROFESSIONAL ELECTIVE - 3	PEC	3	0	4	4	6	11	RELEVENT COURSE
75		PROFESSIONAL ELECTIVE - 3	PEC	3	0	4	4	6	11	RELEVENT COURSE
76		PROFESSIONAL ELECTIVE - 4	PEC	3	0	0	0	3	3	RELEVENT COURSE

77		PROFESSIONAL ELECTIVE - 4	PEC	4	0	0	0	4	4	RELEVENT COURSE
78		PROFESSIONAL ELECTIVE - 5	PEC	2	0	2	0	3	4	RELEVENT COURSE
79		SKILL DEVELOPMENT PROJECT - 1	SDC	0	0	2	4	2	6	RELEVENT COURSE
80		SKILL DEVELOPMENT PROJECT - 1	SDC	0	0	6	4	4	10	RELEVENT COURSE
81		SKILL DEVELOPMENT PROJECT - 1	SDC	0	0	6	4	4	10	RELEVENT COURSE
82		SKILL DEVELOPMENT PROJECT - 2	SDC	0	0	2	4	2	6	RELEVENT COURSE
83		SKILL DEVELOPMENT PROJECT - 2	SDC	0	0	6	4	4	10	RELEVENT COURSE
84		SKILL DEVELOPMENT PROJECT - 2	SDC	0	0	6	4	4	10	RELEVENT COURSE
85		SKILL DEVELOPMENT PROJECT - 3	SDC	0	0	2	4	2	6	RELEVENT COURSE
86		SKILL DEVELOPMENT PROJECT - 3	SDC	0	0	6	4	4	10	RELEVENT COURSE
87		SKILL DEVELOPMENT PROJECT - 3	SDC	0	0	6	4	4	10	RELEVENT COURSE
88		SKILL DEVELOPMENT PROJECT - 4 (SPECIALIZATION)	SDC	0	0	2	4	2	6	RELEVENT COURSE
89		SKILL DEVELOPMENT PROJECT - 4 (SPECIALIZATION)	SDC	0	0	6	4	4	10	RELEVENT COURSE
90		SKILL DEVELOPMENT PROJECT - 4 (SPECIALIZATION)	SDC	0	0	6	4	4	10	RELEVENT COURSE
91		SKILL DEVELOPMENT PROJECT - 4 (MINOR - MULTI DISCIPLINARY)	SDC	0	0	6	4	4	10	RELEVENT COURSE
92		TOOL BASED LEARNING - 1	SDC	0	0	0	4	0	4	RELEVENT COURSE
93		TOOL BASED LEARNING - 2	SDC	0	0	0	4	0	4	RELEVENT COURSE

94	22IE2040	SOCIAL INTERNSHIP	PRI	0	0	0	4	0	4	RELEVENT COURSE
95	22IE3041	TECHNICAL INTERNSHIP	PRI	0	0	0	8	0	8	RELEVENT COURSE
96	22IE4043	RESEARCH INTERNSHIP	PRI	0	0	0	8	0	8	RELEVENT COURSE
97	22IE3042	RESEARCH SEMINAR	PRI	0	0	2	4	2	6	RELEVENT COURSE
98	22IE3043	TERM PAPER	PRI	0	0	4	0	2	4	RELEVENT COURSE
99	22IE4053R	ENGINEERING CAPSTONE PROJECT - PHASE 1	PRI	0	0	6	12	6	18	RELEVENT COURSE
100	22IE4053A	ENGINEERING CAPSTONE PROJECT - PHASE 1	PRI	0	0	8	16	8	24	RELEVENT COURSE
101	22IE4054R	ENGINEERING CAPSTONE PROJECT - PHASE 2	PRI	0	0	6	12	6	18	RELEVENT COURSE
102	22IE4054A	ENGINEERING CAPSTONE PROJECT - PHASE 2	PRI	0	0	8	16	8	24	RELEVENT COURSE
103	22IE4048	ENGINEERING PROJECT	PRI	0	0	6	12	6	18	RELEVENT COURSE
104	22IE4051	INDUSTRIAL INTERNSHIP - PHASE 1	PRI	0	0	0	24	6	24	RELEVENT COURSE
105	22IE4052	INDUSTRIAL INTERNSHIP - PHASE 2	PRI	0	0	0	24	6	24	RELEVENT COURSE
106	22IE4042	INDUSTRIAL INTERNSHIP	PRI	0	0	0	24	6	24	RELEVENT COURSE
107		OPEN ELECTIVE - 1	OEC	3	0	0	0	3	3	RELEVENT COURSE
108		OPEN ELECTIVE - 2	OEC	3	0	0	0	3	3	RELEVENT COURSE
109		OPEN ELECTIVE - 3	OEC	3	0	0	0	3	3	RELEVENT COURSE
110		VALUE ADDED COURSE-1	VAC	0	0	0	8	0	0	N/A
111		VALUE ADDED COURSE-2	VAC	0	0	0	8	0	0	N/A

112		VALUE ADDED COURSE-3	VAC	0	0	0	8	0	0	N/A
113		VALUE ADDED COURSE-4	VAC	0	0	0	8	0	0	N/A
114		VALUE ADDED COURSE-5	VAC	0	0	0	8	0	0	N/A
115		SPORTS/YOGA CERTIFICATION	VAC	0	0	0	8	0	0	N/A
TOTAL										170

20	23UC0024	SOCIAL IMMERSIVE LEARNING - 4	SIL	0	0	0	4	1	2	3	3	3	3	3	2	2		2		3	2	
21	23UC0025	SOCIAL IMMERSIVE LEARNING - 5	SIL	0	0	0	4	1	2	3	3	3	3	3	2	2		2		3	2	
22	23MT1001	LINEAR ALGEBRA AND CALCULUS FOR ENGINEERS	BSC	2	2	0	0	4	3				2									
23	23MT1002	DISCRETE STRUCTURES	BSC	2	2	0	0	4	2													
24	22MT2005	PROBABILITY, STATISTICS & QUEUEING THEORY	BSC	2	2	0	0	4			3	3										
25	22MT2004	MATHEMATICAL PROGRAMMING	BSC	2	2	0	0	4	1	2	3										3	
26	22PH1006	QUANTUM PHYSICS FOR ENGINEERS	BSC	3	0	2	0	4	3	1												
27	23CY1001	ENGINEERING CHEMISTRY	BSC	3	0	2	0	4	3	2	1			3	3							
28	23SC1101	COMPUTATIONAL THINKING FOR STRUCTURED DESIGN	ESC	3	0	2	4	5	1	3		2									2	
29	23SC1202	DATA STRUCTURES	ESC	2	0	2	4	4	1	3	2			1		2	1					
30	22ME1103	DESIGN TOOL WORKSHOP	ESC	0	0	4	0	2		3	3		3				2				2	
31	23EC1203	BASIC ELECTRICAL & ELECTRONIC CIRCUITS	ESC	2	0	0	0	2		1	3										1	
32	22UC3108	PROBLEM SOLVING & REASONING SKILLS-1	ESC	0	0	0	4	1	3				2									
33	22UC3209	PROBLEM SOLVING & REASONING SKILLS-2	ESC	0	0	0	4	1	3				2									
34	23EC1202	DIGITAL DESIGN & COMPUTER ARCHITECTURE	ESC	3	0	2	0	4		3	2		2								2	
35	23SC1203	COMPUTATIONAL THINKING FOR OBJECT-ORIENTED DESIGN	ESC	2	0	2	4	4			2		3		2		2	1			2	
36	23EC1101	FUNDAMENTALS OF IOT & SENSORS	ESC	3	0	4	0	5	2	2	3	2	3								2	
37	22CS2103R	ADVANCED OBJECT-ORIENTED PROGRAMMING	PCC	2	0	2	4	4	3	2			2				3				2	2
38	22CS2103A	ADVANCED OBJECT-ORIENTED PROGRAMMING	PCC	4	0	4	0	6	3	2			3				3				3	2
39	22CS2103P	ADVANCED OBJECT-ORIENTED PROGRAMMING	PCC	4	0	4	0	6	3	3			3				3				3	3
40	22CS2205R	DESIGN & ANALYSIS OF ALGORITHMS	PCC	2	0	2	4	4	3	2			2				3				2	2
41	22CS2205A	DESIGN & ANALYSIS OF ALGORITHMS	PCC	4	0	4	0	6	3	2			3				3				3	2

67		FLEXI-CORE - 2	PCC	2	0	2	0	3	2	3	3	2								3		
68		FLEXI-CORE - 3	PCC	3	0	0	0	3	2	3	3	2								3		
69	22CPD3101R	FUNDAMENTALS OF MOBILE APPLICATION DEVELOPMENT	CPDF	2	0	2	4	4	2				2							2		
70	22CPD3101A	FUNDAMENTALS OF MOBILE APPLICATION DEVELOPMENT		3	0	4	4	6	2					3							3	
71	22CPD3101P	FUNDAMENTALS OF MOBILE APPLICATION DEVELOPMENT		3	0	4	4	6	2					3							3	
72	22CPD3202	REACT NATIVE FOR ANDROID AND IOS DEVELOPMENT		2	0	2	0	3	2					2							2	
73	22CPD3203	FRAMEWORK BASED CROSS PLATFORM APP DEVELOPMENT		2	0	2	0	3	2					2							2	
74	22CPD3304R	SECURE MOBILE APPLICATION DEVELOPMENT		2	0	2	4	4	2					2							2	
75	22CPD3304A	SECURE MOBILE APPLICATION DEVELOPMENT		3	0	4	4	6	2					3							3	
76	22CPD3304P	SECURE MOBILE APPLICATION DEVELOPMENT		3	0	4	4	6	2					3							3	
77	22CPD3405M	PRINCIPLES OF UX/UI DESIGN		3	0	0	0	3	3	2	2			3			1	2				
78	22CPD3405MA	PRINCIPLES OF UX/UI DESIGN		4	0	0	0	4	3	2	2			3			1	2				
79	22CPD3406M	META REACT NATIVE SPECIALIZATION		4	0	0	0	4	1				1	2				2			1	
80	22CPD3406MA	META REACT NATIVE SPECIALIZATION		4	0	0	0	4	1				2	3				3			2	
81	22CPD3507	ADVANCED MOBILE APPLCIATION DEVELOPMENT		2	0	2	0	3	2					3							2	
82	22CPD3508	CROSS PLATFORM USER EXPERIENCE DESIGN		2	0	2	0	3	2					3							2	
83	22MIS3101R	ENTERPRISE RESOURCE PLANNING	MIS	2	0	2	4	4	3	2			3							3	1	
84	22MIS3101A	ENTERPRISE RESOURCE PLANNING		3	0	4	4	6	3	2				3							3	1
85	22MIS3101P	ENTERPRISE RESOURCE PLANNING		3	0	4	4	6	3	2				3							3	1
86	22MIS3202	INFORMATION SYSTEM ANALYSIS & DESIGN		2	0	2	0	3	2	2			1	3							3	

129		OPEN ELECTIVE - 3	OEC	3	0	0	0	3						3	3				3		3
130		VALUE ADDED COURSE-1	VAC	0	0	0	8	0						3	3	3		3	3		3
131		VALUE ADDED COURSE-2	VAC	0	0	0	8	0						3	3	3		3	3		3
132		VALUE ADDED COURSE-3	VAC	0	0	0	8	0						3	3	3		3	3		3
133		VALUE ADDED COURSE-4	VAC	0	0	0	8	0						3	3	3		3	3		3
134		VALUE ADDED COURSE-5	VAC	0	0	0	8	0						3	3	3		3	3		3
135		SPORTS/YOGA CERTIFICATION	VAC	0	0	0	8	0						3	3	3	3				3