



11th Meeting of the Senate

Date April 7, 2018
Time 11:00 a.m.
Place Board Room, IIIT-Allahabad

AGENDA POINTS & NOTES THEREON

ITEM NO.19

To note the corrections in approved course structure 2016 incorporating code corrections, spelling corrections and credit calculation etc)

Certain cases of mis-matches in the codes, credits values and in the titles of subjects were traced/reported in the ongoing UG and PG courses. The corrected version is enclosed [Ann-11.19] for the ratification of the Senate.



Admission, Assessment and Award Section

Date: 28-03-2018

Subject: For the approval of Course Structure revised 2018, incorporating rectified discrepancies / additional subject code & title as mentioned in red colour.

The discrepancies in approved course structure 2016 is revised incorporating rectified discrepancies (Code Correction, spelling correction and Credit calculation correction) and additional subject code & title as mentioned in red colour. In the annexure attached.

Submitted for approval of revised course structure 2016 please. (Revised up to 2-18)

28/3/18
AR(AAA) JR (AAA)

Registrar (Acting)

N. Purohit
Associate Dean (AAA)

D. Chini
Dean (Academics & Research)

Submitted for kind information please and ratification please.

The Chairman, Senate

Certain cases of mis-matches in the codes and
in the titles of subjects have traced / reported in the ongoing
BTech/MTech Courses.
The ~~Chairman~~ AAA section ~~incorporated~~ made the necessary
corrections and the corrected are Research-
The annex (221) is present before Senate for
kind info.

B.Tech.Information Technology (IT) 2016								
SEMESTER	1	2	3	4	5	6	7	8
B.Tech. (IT)	1	SPHY 132 C [5]	SPAS 230 C [3]	SMAT 330 C [3]	SMAT 430 C [3]	ICNE 532 C [5]	ICOD 632 C [5]	ISIM 732 C [5]
	2	SMAT 130 C [3]	IDMA 230 C [3]	IOPS 332 C [5]	IDAA 432 C [5]	ISOE 532 C [5]	IIVP 632 C [5]	ELT3 730 E [3]
	3	IITC 102 C [2]	ICOA 230 C [3]	ITOC 330 C [3]	IPPL 430 C [3]	IAIN 532 C [5]	IDMW 632 C [5]	ELT4 730 E [3]
	4	IITP 132 C [5]	IDST 232 C [5]	IOOM 332 C [5]	IDBM 432 C [5]	IGVC 532 C [5]	ELT1 630 E [3]	MORB 720 C [2]
	5	EEDC 132 C [5]	EDEL 232 C [5]	EMIP 332 C [5]	EPCO 432 C [5]	MPOE 530 C [3]	ELT2 630 E [3]	IPRJ 706 P [8]
	6	ECAS 130 C [3]	MPOM 230 C [3]			IPRJ 505 P [5]	IPRJ 605 P [5]	
	7	MLCS 102 C [2]						
Theory Credits:	15	18	15	15	15	15	15	11
Lab Credits:	10	4	6	6	13		11	20
Total Credits:	25	22	21	21	28	26	21	20

	Subject Code	Subject Title	UG/PG	Type (OE)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
11	SPHY 132 C	Physics-1	U	C	3	2	5	
12	SMAT 130 C	Mathematics-1	U	C	3	0	3	
13	IITC 102 C	Introduction to Computers	U	C	0	2	2	
14	IITP 132 C	Introduction to Programming	U	C	3	2	5	
15	EEDC 132 C	Electronic Devices & Circuits	U	C	3	2	5	
16	ECAS 130 C	Circuit Analysis and Synthesis	U	C	3	0	3	
17	MLCS 102 C	Language and Communication Skills	U	C	0	2	2	
TOTAL:					15	10	25	
18	SPAS 230 C	Probability & Statistics	U	C	3	0	3	SMAT 130 C
19	IDMA 230 C	Discrete Mathematics	U	C	3	0	3	
20	ICOA 230 C	Computer Organization and Architecture	U	C	3	0	3	IITC 102 C
21	IDST 232 C	Data Structures	U	C	3	2	5	IITP 102 C
22	EDES232 C	Digital Electronics	U	C	3	2	5	
23	MPOM 230 C	Principles of Management	U	C	3	0	3	
TOTAL:					18	4	22	
24	SMAT 330 C	Mathematics-2	U	C	3	0	3	
25	IOPS 332 C	Operating System	U	C	3	2	5	ICOA 230 C
26	ITOC 330 C	Theory of Computation	U	C	3	0	3	IDMA 230 C
27	IOOM 332 C	Object Oriented Methodologies	U	C	3	2	5	IDST 232 C
28	EMIP 332 C	Microprocessors	U	C	3	2	5	EDEL 232 C
TOTAL:					15	6	21	
29	SMAT 430 C	Mathematics-3	U	C	3	0	3	
30	IDAA 432 C	Design and Analysis of Algorithms	U	C	3	2	5	IDST 232 C, IDMA 230 C
31	IPPL 430 C	Principles of Programming Languages	U	C	3	0	3	IDST 232 C
32	IDBM 432 C	Data Base Management System	U	C	3	2	5	IDST 232 C, IDMA 230 C
33	EPCO 432 C	Principles of Communication	U	C	3	2	5	
TOTAL:					15	6	21	
	Subject Code	Subject Title	UG/PG	Type (OE)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
34	ICNE 532 C	Computer Networks	U	C	3	2	5	EPCO 432 C
35	ISOE 532 C	Software Engineering	U	C	3	2	5	IOOM 332 C
36	IAIN 532 C	Artificial Intelligence	U	C	3	2	5	IDAA 432 C
37	IGVC 532 C	Graphics and Visual Computing	U	C	3	2	5	IDST 232 C
38	MPOE 530 C	Principles of Economics	U	C	3	0	3	
39	IPRJ 505 P	Mini Project	U	P	0	5	5	
TOTAL:					15	13	28	
40	ICOD 632 C	Compiler Design	U	C	3	2	5	ITOC 330, IITP 132 C
41	IIVP 632 C	Image & Video Processing	U	C	3	2	5	IITP 132 C
42	IDMW 632 C	Data Mining and Warehousing	U	C	3	2	5	IDBM 432 C
43	ELT1 630 E	Elective -1	U	E	3	0	3	
44	ELT2 630 E	Elective -2	U	E	3	0	3	
45	IPRJ 605 P	Mini Project	U	P	0	5	5	
TOTAL:					15	11	26	
Electives (ELT - 1, 2 & 5) VI Semester and VIII Semester *								
ECSE 630E / 830E-	Optimization Techniques	U	E	3	0	3		
ECSE 630E / 830E-	Control System Engineering	U	E	3	0	3		
INLP 630E / 830E-	Natural Language Processing	U/P	E	3	0	3		
ISCO 630E / 830E-	Soft Computing	U/P	E	3	0	3		
IMCL 630E / 830E-	Machine Learning - Tools and Techniques	U/P	E	3	0	3		
IRIA 630E / 830E-	Robotics & Industrial Automation	U	E	3	0	3		
INSE 630E / 830E-	Network Security	U/P	E	3	0	3		
IWBT 630E / 830E-	Web Technologies	U	E	3	0	3		
EITC 630 E	Information Theory and Coding	U/P	E	3	0	3	SPAS230C	
NEW ELECTIVES Approved By the Senate & Implemented								
ICOV 630E/830-E	Computer Vision	U/P	E	3	0	3		
ICOO 630E/830-E	Convex Optimization	U/P	E	3	0	3		
IINS 630 /830-E	Introduction to Network Science	U/P	E	3	0	3		
IATG630E/ 830-E	Advance Topics on Graphs	U/P	E	3	0	3		
ICAP630E/830-E	Computational Astrophysics	U/P	E	3	0	3		
IBDA 630E/830-E	Big Data Analytics	U/P	E	3	0	3		
IADM 630E/830-E	Advanced Data Mining	U/P	E	3	0	3		
IMDE 630E/830-E	Modelling, Design and Analysis of Embedded System	U/P	E	3	0	3		

Added ELECTIVE							
IBCC630E	Blockchain and Crypto Currency	U	E	3	0	3	
IWNS630E	Wireless Networks	U	E	3	0	3	
ICAP630E	Computational Astrophysics	U	E	3	0	3	
IMDM630E	Mobile Data Management	U	E	3	0	3	
IAGA630E	Advance Graphics and Animation	U	E	3	0	3	
IMWS630E	Mobile and Wireless Security	U	E	3	0	3	
IDSS630E	Distributed Systems	U	E	3	0	3	
SEN630E	Engineering Biology	U	E	3	0	3	
ICV630E	Computer Vision	U	E	3	0	3	
IGRT630E	Graph Theory	U	E	3	0	3	
IASS630E	Architecture of Software Systems	U	E	3	0	3	
IWSN630E	Wireless Sensor Network	U	E	3	0	3	
Subject Code	Subject Title	UG/PG	Type (C/E)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
46	ISIM 732C Simulation & Modelling	U	C	3	2	5	SPAS 230 C
47	MORB 720C Organizational Behaviour	U	C	2	0	2	
48	ELT3 730E Elective - 3	U	E	3	0	3	
49	ELT4 730E Elective - 4	U	E	3	0	3	
50	IPRJ708P Mini Project	U	P	0	8	8	
TOTAL:				11	10	21	
Electives (ELT - 3 & 4) VII Semester *							
ICIS 730E	Cryptography & Information Security	U/P	E	3	0	3	
IRMP 730E	Robot Motion Planning	U/P	E	3	0	3	
IRRS 730E	Information Retrieval System	U/P	E	3	0	3	
ISLT 730E	Speech and Language Technologies	U/P	E	3	0	3	
IMDM 730E	Mobile Data Management	U/P	E	3	0	3	
IDCO730E	Data Compression	U/P	E	3	0	3	
ERSC 730E	Radar & Satellite Communication	U/P	E	3	0	3	EPCO 432 C
IWSP 730E	Internet & Web Security Protocols	U/P	E	3	0	3	
IMOC 730E	Mobile Computing	U/P	E	3	0	3	
ICCS 730E	Cognition & Cognitive Systems	U/P	E	3	0	3	
IPAC 730E	Parallel Computing	U/P	E	3	0	3	
IHUR 730E	Humanoid Robotics	U/P	E	3	0	3	
IMSE 730E	Mobile Software Engineering	U/P	E	3	0	3	
IWSN 730E	Wireless Sensor Network	U/P	E	3	0	3	
IDBS 730 E	Database Security	U/P	E	3	0	3	
ICVI 730 E	Computer Vision	U/P	E	3	0	3	
IPRJ 820 P	Major Project	U	P	0	20	20	IPRJ505P, IPRJ605P, IPRJ708P
IPHS 720	Philosophy of Science	U	H	3	0	3	
ELT5 830-E	Elective-5	U	E	3	0	3	
TOTAL:				5	20	20	
New Added ELECTIVE							
SBNF730E	Bio Informatics	U	E	3	0	3	
IADA730E	Advance Data Analytics	U	E	3	0	3	
SEMB730E	Modelling Design & Analysis of Embedded System	U	E	3	0	3	
IIVR730E	Virtual Reality	U	E	3	0	3	
ITGT730E	Topics in Graph Theory	U	E	3	0	3	
* More Electives may be offered on availability of faculties to teach.							

B.Tech Electronics and Communication Engineering (ECE) 2016								
SEMESTER	1	2	3	4	5	6	7	8
B.Tech. (ECE)	1	SPHY 132 C [5]	SPAS 230 C [3] SPBS-230-C [5]	EACN 332 C [5]	ESAS 430C [3]	ICNE 532 C [5]	EDSP 632 C [5]	EESD 732 C [5] EPRJ 820 P [20]
	2	SMAT 130 C [3]	IDMA 230 C [3]	IOPS 332 C [5]	EEMI 432 C [5]	EDCN 532 C [5]	EOCN 632 C [5]	EWON 732 C [5]
	3	IITC 102 C [2]	ICOA 230 C [3]	EAES 332 C [5]	EMIP 432 C [5]	ECSY 532 C [5]	EDID 632 C [5]	ELT3 730 E [3]
	4	IITP 132 C [5]	IDST 232 C [5]	EEFW 330 C [5]	EICT 430 C [3]	EAWP 532 C [5]	ELT1 630 E [3]	ELT4 730 E [3]
	5	EEDC 132 C [5]	EDES 232 C [5]	EBEE 332 C [5]	EMWE 432 C [5]	MPOE 530 C [3]	ELT2 630 E [3]	ELT5 730 E [3]
	6	ECAS 130 C [3]	MPOM 230 C [3]		MMAM 430 C [3]	EPRJ 505 P [5]	EPRJ 605 P [5]	EPRJ 705 P [5]
	7	MLCS 102 C [2]						
Theory Credits:	15	18	15	18	15	15	15	0
Lab Credits:	10	4	8	6	13	11	9	20
Total Credits:	25	22	23	24	28	26	24	20

1 Common courses in Btech IT and ECE are Marked in Blue

	Subject Code	Subject Title	UG/PG	Type (C/E)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
1	SPHY 132 C	Physics-1	U	C	3	2	5	
2	SMAT 130 C	Mathematics-1	U	C	3	0	3	
3	IITC 102 C	Introduction to Computers	U	C	0	2	2	
4	IITP 132 C	Introduction to Programming	U	C	3	2	5	
5	EEDC 132 C	Electronic Devices & Circuits	U	C	3	2	5	
6	ECAS 130 C	Circuit Analysis and Synthesis	U	C	3	0	3	
7	MLCS 102 C	Language and Communication Skills	U	C	0	2	2	
TOTAL:					15	10	25	
8	SPAS 230 C	Probability & Statistics	U	C	3	0	3	SMAT 130 C
9	IDMA 230 C	Discrete Mathematics	U	C	3	0	3	
10	ICOA 230 C	Computer Organization and Architecture	U	C	3	0	3	IITC 102 C
11	IDST 232 C	Data Structures	U	C	3	2	5	IITP 102 C
12	EDES 232 C	Digital Electronics	U	C	3	2	5	
13	MPOM 230 C	Principles of Management	U	C	3	0	3	
TOTAL:					18	4	22	
14	EACN 332 C	Analog Communication	U	C	3	2	5	
15	EAES 332 C	Analog Electronics	U	C	3	2	5	EEDC132C
16	EEFW 330 C	Electromagnetic Field and Waves	U	C	3	0	3	
17	EBEE 332 C	Basic Electrical Engineering	U	C	3	2	5	
18	IOPS 332 C	Operating Systems	U	C	3	2	5	ICOA 230 C
TOTAL:					15	8	23	
19	ESAS 430 C	Discrete Time Signals and Systems	U	C	3	0	3	EACN332C
20	EEMI 432 C	Electronics Measurement and Instrumentation	U	C	3	2	5	
21	EMIP 432 C	Microprocessor Interface and Programming	U	C	3	2	5	EDEL232C
22	EMWE 432 C	Microwave Engineering	U	C	3	2	5	EEFW330C
23	EICT 430 C	Integrated Circuits Technology	U	C	3	0	3	EEDC132C
24	MMAM 430 C	Marketing Management	U	C	3	0	3	
TOTAL:					18	6	24	
25	EDCN 532 C	Digital Communication	U	C	3	2	5	ESAS430C
26	ECSY 532 C	Control Systems	U	C	3	2	5	
27	EAWP 532 C	Antenna and Wave Propagation	U	C	3	2	5	EEFW330C
28	ICNE 532 C	Computer Networks	U	C	3	2	5	
29	MPOE 530 C	Principles of Economics	U	C	3	0	3	
30	EPRJ 505 P	Mini Project 1	U	P	0	5	5	
TOTAL:					15	13	28	

31	EDSP 632 C	Digital Signal Processing	U	C	3	2	5	ESAS430C
32	EOCN 632 C	Optical Communication	U	C	3	2	5	EDCN532C
33	EDID 632 C	Digital IC Design	U	C	3	2	5	
34	ELT1 630 E	Elective 1	U	E	3	0	3	
35	ELT2 630 E	Elective 2	U	E	3	0	3	
36	EPRJ 805 P	Mini Project 2	U	P	0	5	5	

TOTAL:

15

11

26

37	IWNS630E	Wireless Networks	U	E	3	0	3	
38	EDET630E	Detection and Estimation Theory	U	E	3	0	3	
39	IBCC630E	Blockchain and Cryptocurrency	U	E	3	0	3	
40	INSE630E	Network Security	U	E	3	0	3	
41	IAGA630E	Advanced Graphics and Animation	U	E	3	0	3	
42	IOPT630E	Optimization Techniques	U	E	3	0	3	
43	ISCO630E	Soft Computing	U	E	3	0	3	
44	EHD630E	Hardware Design Methodology	U	E	3	0	3	
45	IDSS630E	Distributed Systems	U	E	3	0	3	
46	IMDM630E	Mobile Data Management	U	E	3	0	3	
47	IDBM630E	Database Management System	U	E	3	0	3	
48	IMWS630E	Mobile and Wireless Security	U	E	3	0	3	
49	ETNV630E	Testing & Verification	U	E	3	0	3	
50	IMCL630E	Machine Learning-Tools & Techniques	U	E	3	0	3	
51	SENB630E	Engineering Biology	U	E	3	0	3	
52	EMWC630E	Microwave Circuit	U	E	3	0	3	

53	EESD732 C	Embedded System Design	U	C	3	2	5	
54	EWCN732 C	Wireless Communication	U	C	3	2	5	
55	ELT3 730 E	Elective - 3	U	E	3	0	3	
56	ELT4 730 E	Elective - 4	U	E	3	0	3	
57	ELT5 730 E	Elective - 5	U	E	3	0	3	
58	EPRJ 705 P	Mini Project -3	U	P	0	5	5	
59	ICCS730E	Cognition and Cognitive Process Modeling	U	E	3	0	3	
60	IDCO730E	Data Compression	U	E	3	0	3	
61	IMOC730E	Mobile Computing	U	E	3	0	3	
TOTAL:					15	9	24	

62	EPRJ 820 P	Major Project	U	P	0	20	20	EPRJ505P, EPRJ605P, EPRJ708P
TOTAL:					0	20	20	

Electives (ELT - 1, 2, 3, 4 & 5) VII Semester *								
Subject Code	Subject Title	UG/PG	Type (C/E)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *	
IHUR 730 E	Humanoid Robotics	U/P	E	3	0	3		
IRI630E/830E	Robotics & Industrial Automation	U	E	3	0	3		
EITC 630 E	Information Theory and Coding	U/P	E	3	0	3	SPAS230C	
IDPM432C/830E	Database Programming and Management	U/P	E	3	0	3	IDST 232 C, IDMA 230 C	
EPES630E	Power Electronics	U/P	E	3	0	3	EEDC132C	
EDIP730E	Digital Image Processing	U/P	E	3	0	3	ESAS430C	
EADS730E	Advanced Digital Signal Processing	U/P	E	3	0	3	EDSP632C	
EAIC730E	Analog Integrated Circuit Design	U/P	E	3	0	3	EAES332C	
EMIC730E	Mixed Signal Integrated Circuit Design	U/P	E	3	0	3	EAES332C	
ERFC730E	Radio Frequency Circuit Design	U/P	E	3	0	3	EAES332C	
EMES 730E	Micro Electromechanical Systems	U/P	E	3	0	3	EICT430C	
EMCS730E	Modern Control Systems	U/P	E	3	0	3	ECSY532C	
ERSC730E	RADAR and Satellite Communication	U/P	E	3	0	3	(EDCN532C, EAWP532C) / EPCO 432 C	
EONW730E	Optical Networks	U/P	E	3	0	3	EOCN632C	
EODC730E	Optoelectronic Devices and Circuits	U/P	E	3	0	3	EOCN632C	
EMIM730E	MIMO Communication	U/P	E	3	0	3	EACN332C, EDCN532C	
ELPD730E	Low Power System Design	U/P	E	3	0	3		
EMSD730E	Modeling and Analysis of Semiconductor Devices	U/P	E	3	0	3	EEDC132C	

* More Electives may be offered on availability of faculties to teach.

5 Years Dual Degree B.Tech.(IT) - M.Tech. (IT) Program 2016												
SEMESTER	1	2	3	4	5	6	SUMMER BREAK	7	8	SUMMER SEMESTER	9	10
Software Engineering (SE)	ALL COURSES SAME AS B.TECH (IT) upto VI Semester						Summer Project / Intern [PRJ710P [10]	ISIM732C [5]	ISTQB840C [4]	Research Credits [RES910P [10]	ELT-3 840E [4]	ITHSX20P [20]
								MORB720C [2]	IASS840C [4]		ELT-4 840E [4]	
								ITGT730C [3]	ELT-1 840E [4]		ITHS912P [12]	
								ISOM740C [4]	ELT-2 840E [4]			
								ISRE740C [4]				
Theory Credits:							0	18	16	0	8	0
Lab Credits:							10	2	0	10	12	20
Total Credits:							10	18	16	10	20	20
	Subject Code		Subject Title					Type (C/E/P)	Theory Credits	Lab Credits	Total	
1	ISIM732C	System Modeling and Simulation					C	3	2	5		
2	MORB720C	Organizational Behaviour					C	2	0	2		
3	ITGT730C	Topics in Graph Theory					C	3	0	3		
4	ISOM740C	Software Metrics					C	4	0	4		
5	ISRE740C	Software Requirements and Estimation					C	4	0	4		
							TOTAL:		16	2	18	
6	ISTQB840C	Software Testing & Quality Management					C	4	0	4		
7	IASS840C	Architecture of Software Systems					C	4	0	4		
8	ELT-1 840E	Elective -1					E	4	0	4		
9	ELT-2 840E	Elective -2					E	4	0	4		
							TOTAL:		16	0	16	
10	ELT-3 840E	Elective -3					E	4	0	4		
11	ELT-4 840E	Elective -4					E	4	0	4		
12	ITHS912P	M. Tech. Thesis					P	0	12	12		
							TOTAL:		8	12	20	
13	ITHSX20P	M. Tech. Thesis					P	0	20	20		
							TOTAL:		0	20	20	
	Electives(ELT - 1 & 2) 8th Semester						Type (C/E/P)	Theory Credits	Lab Credits	Total		
	IERP 840 E	Enterprise Resource Planning					E	4	0	4		
	IDMW 840 E	Data Mining & Warehousing					E	4	0	4		
	IADM 840 E	Advanced Database Management System					E	4	0	4		
	ICVI 840 E	Computer Vision					E	4	0	4		
	IMCL 840 E	Machine Learning-Tools & Techniques					E	4	0	4		
	IMDM 840 E	Mobile Data Management					E	4	0	4		
	IWSN 840 E	Wireless Sensor Network					E	4	0	4		
	INSE 840 E	Network Security					E	4	0	4		
	IOPT 840 E	Optimization Techniques					E	4	0	4		
	Electives(ELT - 3 & 4) 9th Semester						Type (C/E/P)	Theory Credits	Lab Credits	Total		
	IOOD 940 E	Object Oriented Software Engineering and Design Patterns					E	4	0	4		
	IMSE 940 E	Mobile Software Engineering					E	4	0	4		
	IEMS 940 E	Embedded Systems					E	4	0	4		
	IABS 940 E	Agent Based Systems					E	4	0	4		
	ICIS 940 E	Cryptography and Information Security					E	4	0	4		
	IADA 940 E	Advanced Data Analytics					E	4	0	4		
	ICCP 940 E	Cognition and Cognitive Process Modeling					E	4	0	4		
	IIRS 940 E	Information Retrieval System					E	4	0	4		
	IMOC 940 E	Mobile Computing					E	4	0	4		
	IDCC940E	Data Compression					E	4	0	4		
	IVIR 940 E	Virtual Reality					E	4	0	4		
Additional Electives may be followed depending upon the availabilities of faculty members.												

5 Years Dual Degree B.Tech.(IT) - M.Tech. (IT) Program 2016												
SEMESTER	1	2	3	4	5	6	SUMMER BREAK	7	8	SUMMER SEMESTER	9	10
Wireless Communication Engineering (WCE)	ALL COURSES SAME AS B.TECH (IT) upto VI Semester						Summer Project / Intern IPRJ710P [10]	ISIM732C [5]	IWNS840C [4]	Research Credits IRE8910P [10]	ELT-3 940E [4]	ITHSX20P [20]
								MORB720C [2]	IWSN840C [4]		ELT-4 940E [4]	
								ITGT730C [3]	ELT-1 840E [4]		ITHS912P [12]	
								IINP740C [4]	ELT-2 840E [4]			
								EWCS740C [4]				
Theory Credits:							0	18	18	0	8	0
Lab Credits:							10	2	0	10	12	20
Total Credits:							10	18	16	10	20	20
	Subject Code		Subject Title					Type (C/E/P)	Theory Credits	Lab Credits	Total	
1	ISIM732C	System Modeling and Simulation					C	3	2	5		
2	MORB720C	Organizational Behaviour					C	2	0	2		
3	ITGT730C	Topics in Graph Theory					C	3	0	3		
4	IINP740C	Internet Protocols					C	4	0	4		
5	EWCS740C	Wireless Communications					C	4	0	4		
							TOTAL:		16	2	18	
6	IWNS840C	Wireless Networks					C	4	0	4		
7	IWSN840C	Wireless Sensor Networks					C	4	0	4		
8	ELT-1 840E	Elective -1					E	4	0	4		
9	ELT-2 840E	Elective -2					E	4	0	4		
							TOTAL:		16	0	16	
10	ELT-3 940E	Elective -3					E	4	0	4		
11	ELT-4 940E	Elective -4					E	4	0	4		
12	ITHS912P	M. Tech. Thesis					P	0	12	12		
							TOTAL:		8	12	20	
13	ITHSX20P	M. Tech. Thesis					P	0	20	20		
							TOTAL:		0	20	20	
	Electives(ELT - 1 & 2) 8th Semester							Type (C/E/P)	Theory Credits	Lab Credits	Total	
	IMWS 840 E	Mobile and Wireless Security					E	4	0	4		
	EOCN 840 E	Optical Communication					E	4	0	4		
	IDSS 840 E	Distributed Systems					E	4	0	4		
	EITC 840 E	Information Theory and Coding					E	4	0	4		
	ISCO 840 E	Soft Computing					E	4	0	4		
	EARD 840 E	Antenna and RF Design					E	4	0	4		
	INSE 840 E	Network Security					E	4	0	4		
	EDSP 840 E	Digital Signal Processing					E	4	0	4		
	IGRT 840 E	Graph Theory					E	4	0	4		
	IOPT 840 E	Optimization Techniques					E	4	0	4		
	Electives(ELT - 3 & 4) 9th Semester							Type (C/E/P)	Theory Credits	Lab Credits	Total	
	IMSE 940 E	Mobile Software Engineering					E	4	0	4		
	IMDM 940 E	Mobile Data Management					E	4	0	4		
	ICIS 940 E	Cryptography and Information Security					E	4	0	4		
	ECLN 940 E	Cellular Networks					E	4	0	4		
	ESAS 940 E	Smart Antennas					E	4	0	4		
	ERSE 940 E	Radar and Satellite Communication					E	4	0	4		
	IDCO 940 E	Data Compression					E	4	0	4		
	IMOC 940 E	Mobile Computing					E	4	0	4		
Additional Electives may be followed depending upon the availabilities of faculty members.												

5 Years Dual Degree B.Tech.(IT) - M.Tech. (IT) Program 2016												
SEMESTER	1	2	3	4	5	6	SUMMER BREAK	7	8	SUMMER SEMESTER	9	10
Cyber Law and Information Security (CLIS)	ALL COURSES SAME AS B.TECH (IT) upto VI Semester						Summer Project / Intern [PLU710P] [10]	ISIM732C [5]	ICLS840C [4]	Research Credits [RES910P] [10]	ELT-3 940E [4]	ITHSX20P [20]
								MORB720C [2]	INSE840C [4]		ELT-4 940E [4]	
								ITGT730C [3]	ELT-1 840E [4]			
								IINP740C [4]	ELT-2 840E [4]			
								ICIS730C [3]				
Theory Credits:							0	15	16	0	8	0
Lab Credits:							10	2	0	10	12	20
Total Credits:							10	17	16	10	20	20
		Subject Code	Subject Title						Type (C/E/P)	Theory Credits	Lab Credits	Total
1	ISIM732C	System Modeling and Simulation						C	3	2	5	
2	MORB720C	Organizational Behaviour						C	2	0	2	
3	ITGT730C	Topics in Graph Theory						C	3	0	3	
4	IINP740C	Internet Protocols						C	4	0	4	
5	ICIS730C	Cryptography and Information Security						C	3	0	3	
		TOTAL							15	2	17	
6	ICLS840C	Cyber Laws and Security Standards						C	4	0	4	
7	INSE840C	Network Security						C	4	0	4	
8	ELT-1 840E	Elective -1						E	4	0	4	
9	ELT-2 840E	Elective -2						E	4	0	4	
		TOTAL:							16	0	16	
10	ELT-3 940E	Elective -3						E	4	0	4	
11	ELT-4 940E	Elective -4						E	4	0	4	
12	ITHS912P	M. Tech. Thesis						P	0	12	12	
		TOTAL:							8	12	20	
13	ITHSX20P	M. Tech. Thesis						P	0	20	20	
		TOTAL:							0	20	20	
	Electives(ELT - 1 & 2) 8th Semester							Type (C/E/P)	Theory Credits	Lab Credits	Total	
	IADC 840 E	Advanced Cryptography						E	4	0	4	
	IMWS 840 E	Mobile and Wireless Security						E	4	0	4	
	ICFN 840 E	Computer Forensics						E	4	0	4	
	ISAC 840 E	Security Architecture						E	4	0	4	
	ITRA 840 E	Technical Risk Assessment						E	4	0	4	
	ISSE 840 E	Software Security						E	4	0	4	
	IISA 840 E	Information Security Audit						E	4	0	4	
	IIAM 840 E	Identity and Access Management						E	4	0	4	
	IWSN 840 E	Wireless Sensor Networks						E	4	0	4	
	IMCL840 E	Machine Learning - Tools and Techniques						E	4	0	4	
	ISCO840 E	Soft Computing						E	4	0	4	
	IWNS840 E	Wireless Networks						E	4	0	4	
	Electives(ELT - 3 & 4) 9th Semester							Type (C/E/P)	Theory Credits	Lab Credits	Total	
	IDBS 940 E	Database Security						E	4	0	4	
	IOSS 940 E	Operating System Security						E	4	0	4	
	IBDP 940 E	Business Continuity Planning and Disaster Recovery Planning						E	4	0	4	
	ISCA 940 E	Security Audit						E	4	0	4	
	ICVS 940 E	Cloud and Virtualization Security						E	4	0	4	
	IISP 940 E	Information and Information System Privacy						E	4	0	4	
	IMOC 940 E	Mobile Computing						E	4	0	4	
Additional Electives may be followed depending upon the availabilities of faculty members.												

5 Years Dual Degree B.Tech.(IT) - M.Tech. (IT) Program 2016												
SEMESTER	1	2	3	4	5	6	SUMMER BREAK	7	8	SUMMER SEMESTER	9	10
Robotics (RO)	ALL COURSES SAME AS B.TECH (IT) upto VI Semester						Summer Project / Intern IPR710P [10]	ISIM732C [5]	IALS840C [4]	Research Credits IRES910P [10]	ELT-3 940E [4]	ITHSX20P [20]
								MORB720C [2]	ISCO840C [4]		ELT-4 940E [4]	
								ITGT730C [3]	ELT-1 840E [4]		ITHS912P [12]	
								ECSE740C [4]	ELT-2 840E [4]			
								IMFR740C [4]				
Theory Credits:							0	16	16	0	8	0
Lab Credits:							10	2	0	10	12	20
Total Credits:							10	18	16	10	20	20
		Subject Code	Subject Title					Type (C/E/P)	Theory Credits	Lab Credits	Total	
	1	ISIM732C	System Modeling and Simulation					C	3	2	5	
	2	MORB720C	Organizational Behaviour					C	2	0	2	
	3	ITGT730C	Topics in Graph Theory					C	3	0	3	
	4	ECSE740C	Control System Engineering					C	4	0	4	
	5	IMFR 740 C	Mathematical Foundation of Robotics					C	4	0	4	
			TOTAL:						16	2	18	
	6	IALS840C	Artificial Life simulation					C	4	0	4	
	7	ISCO840 C	Soft Computing					C	4	0	4	
	8	ELT-1 840E	Elective -1					E	4	0	4	
	9	ELT-2 840E	Elective -2					E	4	0	4	
			TOTAL:						16	0	16	
	10	ELT-3 940E	Elective -3					E	4	0	4	
	11	ELT-4 940E	Elective -4					E	4	0	4	
	12	ITHS912P	M. Tech. Thesis					P	0	12	12	
			TOTAL:						8	12	20	
	13	ITHSX20P	M. Tech. Thesis					P	0	20	20	
			TOTAL:						0	20	20	
		Electives(ELT - 1 & 2) 8th Semester						Type (C/E/P)	Theory Credits	Lab Credits	Total	
		IIVP 840 E	Image and Video processing					E	4	0	4	
		IWSN 840 E	Wireless Sensor Networks					E	4	0	4	
		IDSS 840E	Distributed Systems					E	4	0	4	
		IOPT 840 E	Optimization Techniques					E	4	0	4	
		IAGA 840 E	Advanced Graphics and Animation					E	4	0	4	
		ICVI 840 E	Computer Vision					E	4	0	4	
		IWNS 840 E	Wireless Networks					E	4	0	4	
		IMCL840 E	Machine Learning - Tools and Techniques					E	4	0	4	
		Electives(ELT - 3 & 4) 9th Semester						Type (C/E/P)	Theory Credits	Lab Credits	Total	
		IHUR 940 E	Humanoid Robotics					E	4	0	4	
		INDS 940 E	Nonlinear Dynamics					E	4	0	4	
		IRMP 940 E	Robot Motion Planning					E	4	0	4	
		IVIR 940 E	Virtual Reality					E	4	0	4	
Additional Electives may be followed depending upon the availabilities of faculty members.												

5 Years Dual Degree B.Tech.(IT) - M.Tech. (IT) Program 2016												
SEMESTER	1	2	3	4	5	6	SUMMER BREAK	7	8	SUMMER SEMESTER	9	10
Human Computer Interaction (HCI)	ALL COURSES SAME AS B.TECH (IT) upto VI Semester						Summer Project / Intern IPR4710P [10]	ISIM732C [5]	ICVI840C [4]	Research Credits IRE8810P [10]	ELT-3 940E [4]	ITHSX20P [20]
								MORB720C [2]	IAGA840C [4]		ELT-4 940E [4]	
								ITGT730C [3]	ELT-1 840E [4]		ITHS912P [12]	
								ICCP740C [4]	ELT-2 840E [4]			
								ICII740C [4]				
Theory Credits:							0	16	16	0	8	0
Lab Credits:							10	2	0	10	12	20
Total Credits:							10	18	16	10	20	20
		Subject Code	Subject Title						Type (C/E/P)	Theory Credits	Lab Credits	Total
1	ISIM732C	System Modeling and Simulation						C	3	2	5	
2	MORB720C	Organizational Behaviour						C	2	0	2	
3	ITGT730C	Topics in Graph Theory						C	3	0	3	
4	ICCP740C	Cognition and Cognitive Process Modelling						C	4	0	4	
5	ICII740C	Computational Intelligence						C	4	0	4	
TOTAL:									16	2	18	
6	ICVI840C	Computer Vision						C	4	0	4	
7	IAGA840C	Advanced Graphics and Animation						C	4	0	4	
8	ELT-1 840E	Elective -1						E	4	0	4	
9	ELT-2 840E	Elective -2						E	4	0	4	
TOTAL:									16	0	16	
10	ELT-3 940E	Elective -3						E	4	0	4	
11	ELT-4 940E	Elective -4						E	4	0	4	
12	ITHS912P	M. Tech. Thesis						P	0	12	12	
TOTAL:									8	12	20	
13	ITHSX20P	M Tech. Thesis						P	0	20	20	
TOTAL:									0	20	20	
	Electives(ELT - 1 & 2) 8th Semester							Type (C/E/P)	Theory Credits	Lab Credits	Total	
	IADM 840 E	Advanced Database Management System						E	4	0	4	
	IDMW 840 E	Data Mining and Warehousing						E	4	0	4	
	ISOC 840 E	Soft Computing						E	4	0	4	
	IDSS 840 E	Distributed Systems						E	4	0	4	
	INSE840 E	Network Security						E	4	0	4	
	IOPT 840 E	Optimization Techniques						E	4	0	4	
	IMDM 840 E	Mobile Data Management						E	4	0	4	
	IMCL840 E	Machine Learning - Tools and Techniques						E	4	0	4	
	IWNS840 E	Wireless Networks						E	4	0	4	
	Electives(ELT - 3 & 4) 9th Semester							Type (C/E/P)	Theory Credits	Lab Credits	Total	
	IPID 940 E	Principles of Interaction Design						E	4	0	4	
	IINR 940 E	Information Retrieval						E	4	0	4	
	IVIR 940 E	Virtual Reality						E	4	0	4	
	IMOC 940 E	Mobile Computing						E	4	0	4	
Additional Electives may be followed depending upon the availabilities of faculty members.												

5 Years Dual Degree B.Tech.(IT) - M.Tech. (IT) Program 2016												
SEMESTER	1	2	3	4	5	6	SUMMER BREAK	7	8	SUMMER SEMESTER	9	10
Intelligent Systems (IS)	ALL COURSES SAME AS B.TECH (IT) upto VI Semester						Summer Project / Intern IPR/710P [10]	ISIM732C [5]	IALS840C [4]	Research Credits JRE8910P [10]	ELT-3 840E [4]	ITHSX20P [20]
								MORB720C [2]	ICV1840C [4]		ELT-4 840E [4]	
								ITGT730C [3]	ELT-1 840E [4]			
								ICCP740C [4]	ELT-2 840E [4]			
								ICI1740C [4]				
Theory Credits:							0	16	16	0	8	0
Lab Credits:							10	2	0	10	12	20
Total Credits:							10	18	16	10	20	20
	Subject Code		Subject Title					Type (C/E/P)	Theory Credits	Lab Credits	Total	
1	ISIM732C		System Modeling and Simulation					C	3	2	5	
2	MORB720C		Organizational Behaviour					C	2	0	2	
3	ITGT730C		Topics in Graph Theory					C	3	0	3	
4	ICCP740C		Cognition and Cognitive Process Modelling					C	4	0	4	
5	ICI1740C		Computational Intelligence					C	4	0	4	
								TOTAL:	16	2	18	
6	IALS840C		Artificial Life Simulation					C	4	0	4	
7	ICV1840C		Computer Vision					C	4	0	4	
8	ELT-1 840E		Elective -1					E	4	0	4	
9	ELT-2 840E		Elective -2					E	4	0	4	
								TOTAL:	16	0	16	
10	ELT-3 840E		Elective -3					E	4	0	4	
11	ELT-4 840E		Elective -4					E	4	0	4	
12	ITHS912P		M. Tech. Thesis					P	0	12	12	
								TOTAL:	8	12	20	
13	ITHSX20P		M. Tech. Thesis					P	0	20	20	
								TOTAL:	0	20	20	
	Electives(ELT - 1 & 2) 8th Semester							Type (C/E/P)	Theory Credits	Lab Credits	Total	
	IOSD 840 E		Digital System Design					E	4	0	4	
	IDMW 840 E		Data Mining & Warehousing					E	4	0	4	
	IADM 840 E		Advance DataBase Management System					E	4	0	4	
	IWSN 840 E		Wireless Sensor Networks					E	4	0	4	
	INSE840 E		Network Security					E	4	0	4	
	IOPT 840 E		Optimization Techniques					E	4	0	4	
	IMDM 840 E		Mobile Data Management					E	4	0	4	
	Electives(ELT - 3 & 4) 9th Semester							Type (C/E/P)	Theory Credits	Lab Credits	Total	
	IVIR 940 E		Virtual Reality					E	4	0	4	
	IINR 940 E		Information Retrieval					E	4	0	4	
	IHUR 940 E		Humanoid Robotics					E	4	0	4	
	IMOC 940 E		Mobile Computing					E	4	0	4	
Additional Electives may be followed depending upon the availabilities of faculty members.												

5 Years Dual Degree B.Tech.(IT) - M.Tech. (IT) Program 2016												
SEMESTER	1	2	3	4	5	6	SUMMER BREAK	7	8	SUMMER SEMESTER	9	10
Bio- Informatics (BI)	ALL COURSES SAME AS B.TECH (IT) upto VI Semester						Summer Project / Intern SPRAJ710P [10]	SBI5731C [4]	SOI831C [4]	Research Credits SRES910P [10]	ELT-2 931E [4]	STHSX20P [20]
								SOMI731C [4]	SNGS831C [4]		ELT-3 931E [4]	
								SSCE731C [4]	SCIM831C [4]		STHS912P [12]	
								ELT-1 730E [3]	SMSP831C [4]			
Theory Credits:							0	12	12	0	8	0
Lab Credits:							10	3	4	10	14	20
Total Credits:							10	15	16	10	20	20
		Subject Code	Subject Title						Type (C/E/P)	Theory Credits	Lab Credits	Total
1		SBI5731C	Biological Information System and Management (Biomathematics and Biostatistics)						C	3	1	4
2		SOMI731C	Omics - I (Molecular biology, biochemistry, genomics & proteomics)						C	3	1	4
3		SSCE731C	Scripting and Computer Environments (PERL, PYTHON, R)						C	3	1	4
4		ELT-1 730E	Elective -1						C	3	0	3
			TOTAL:							12	3	15
6		SOI831C	Omics - II (Transcriptomics, Metabolonomics and systems biology)						C	3	1	4
7		SNGS831C	Next Generation Sequencing Tools and Algorithms						C	3	1	4
8		SCIM831C	Cheminformatics and Molecular Modeling						C	3	1	4
9		SMSP831C	Molecular Structure Prediction (Protein, DNA and RNA)						C	3	1	4
			TOTAL:							12	4	16
10		ELT-2 931E	Elective -2						E	3	1	4
11		ELT-3 931E	Elective -3						E	3	1	4
12		STHS912P	M. Tech. Thesis						P	0	12	12
			TOTAL:							6	14	20
13		STHSX20P	M. Tech. Thesis						P	0	20	20
			TOTAL:							0	20	20
		Electives(ELT - 2 & 3) 9th Semester							Type (C/E/P)	Theory Credits	Lab Credits	Total
		SMLB931E	Machine Learning in Biological System						E	3	1	4
		SMMD931E	Molecular Medicine						E	3	1	4
		SBIP931E	Biological Imaging and Processing (Medical and molecular imaging and processing)						E	3	1	4
		SCNS931E	Computational Neurosciences						E	3	1	4
		SBAN931E	Big-data Analytics						E	3	1	4
Additional Electives may be followed depending upon the availabilities of faculty members.												

5 Years Dual Degree B.Tech.(ECE) - M.Tech. (ECE) Program 2016												
SEMESTER	1	2	3	4	5	6	SUMER BREAK	7	8	SUMER SEMESTER	9	10
Microelectronics (MI)	ALL COURSES SAME AS B.TECH (ECE) upto VI Semester						Summer Project / Intern EPR710P (10)	EESD732C (5)	EVDT840C (4)	Research Credits ERE8910P (10)	ELT-2 940E (4)	ETHSX20P (20)
								EWCN732C (5)	EAIC840C (4)		ELT-3 940E (4)	
								EMSD740C (4)	EHDM840C (4)		ETHS912P (12)	
								EVL7740C (4)	EVT840C (4)			
								ELT-1 730E (3)				
Theory Credits:							0	17	16	0	8	0
Lab Credits:							10	4	0	10	12	20
Total Credits:							10	21	16	10	20	20
	Subject Code		Subject Title					Type (C/E/P)	Theory Credits	Lab Credits	Total	
1	EESD732C		Embedded System Design					C	3	2	5	
2	EWCN732C		Wireless Communication					C	3	2	5	
3	EMSD740C		Modeling of Semiconductor Devices					C	4	0	4	
4	EVL7740C		VLSI Technology					C	4	0	4	
5	ELT-1 730E		Elective -1					C	3	0	3	
								TOTAL:	17	4	21	
6	EVDT840C		Advance VLSI Devices and Technology					C	4	0	4	
7	EAIC840C		Analog Integrated Circuit Design					C	4	0	4	
8	EHDM840C		Hardware Design Methodology					C	4	0	4	
9	EVT840C		VLSI Testing and Verification					C	4	0	4	
								TOTAL:	16	0	16	
10	ELT-2 940E		Elective -2					E	4	0	4	
11	ELT-3 940E		Elective -3					E	4	0	4	
12	ETHS912P		M. Tech. Thesis					P	0	12	12	
								TOTAL:	8	12	20	
13	ETHSX20P		M. Tech. Thesis					P	0	20	20	
								TOTAL:	0	20	20	
	Electives(ELT - 1, 2 & 3) 7th & 9th Semester							Type (C/E/P)	Theory Credits	Lab Credits	Total	
	EDVD730E		Digital VLSI Design					E	3	0	3	
	ELPD730E		Low Power System Design					E	3	0	3	
	EODC730E		Optoelectronic Devices and Circuits					E	3	0	3	
	EMES 940 E		Micro Electromechanical Systems					E	4	0	4	
	EMIC 940 E		Mixed Signal Integrated Circuit Design					E	4	0	4	
Additional Electives may be followed depending upon the availabilities of faculty members.												

5 Years Dual Degree B.Tech.(ECE) - M.Tech. in BME 2016												
SEMESTER	1	2	3	4	5	6	SUMMER BREAK	7	8	SUMMER SEMESTER	9	10
Biomedical Engineering (BME)	ALL COURSES SAME AS B.TECH (ECE) upto VI Semester						Summer Project / Intern SPR710P [10]	SNAP731C [4]	SMA831C [4]	Research Credits SRE8910P [10]	ELT-1 931E [4]	STHSX20P [20]
								SBCI731C [4]	SMIS831C [4]		ELT-2 931E [4]	
								SMSA731C [4]	SBMC831C [4]		STHS912P [12]	
								SRTS731C [4]	SBSM831C [4]			
	Theory Credits:							0	12	12	0	6
Lab Credits:							10	4	4	10	14	20
Total Credits:							10	16	16	10	20	20
	Subject Code		Subject Title					Type (C/E/P)	Theory Credits	Lab Credits	Total	
1	SNAP731C		Anatomy and Physiology					C	3	1	4	
2	SBCI731C		Biomedical Circuits and Instrumentation					C	3	1	4	
3	SMSA731C		Medical Sensors and Actuators					C	3	1	4	
4	SRTS731C		Real Time Signal Processing					C	3	1	4	
TOTAL:									12	4	16	
5	SMA831C		Medical Instrumentation Advanced (Concept of					C	4	0	4	
6	SMIS831C		Medical Imaging and signaling System (both static and dynamic)(Principles of X-Ray, CT-Scan, MRI,Ultrasonography, Molecular imaging etc.)					C	4	0	4	
7	SBMC831C		Biomechanics					C	4	0	4	
8	SBSM831C		Biological Systems and Models					C	4	0	4	
TOTAL:									16	0	16	
9	ELT-1 931E		Elective -1					E	3	1	4	
10	ELT-2 931E		Elective -2					E	3	1	4	
11	STHS912P		M. Tech. Thesis					P	0	12	12	
TOTAL:									6	14	20	
12	STHSX20P		M. Tech. Thesis					P	0	20	20	
TOTAL:									0	20	20	
Electives(ELT - 1 & 2) 9th Semester								Type (C/E/P)	Theory Credits	Lab Credits	Total	
		SDCS 931 E		Digital Communication System				E	3	1	4	
		SBSP 931 E		Biological Image and Signal Processing				E	3	1	4	
		SMPC 931 E		Medical Information Systems and PACS				E	3	1	4	
		SMLR 931 E		Machine Learning for Medical Systems				E	3	1	4	
		SMEM 931 E		MEMs and Biomedical Applications				E	3	1	4	
		SMEQ 931 E		Molecular Medicine				E	3	1	4	
		SBMT 931 E		Biomaterials and Tissue Engineering				E	3	1	4	
Additional Electives may be followed depending upon the availabilities of faculty members.												

5 Years Dual Degree B.Tech. (IT) - MBA (IT) Program 2016												
SEMESTER	1	2	3	4	5	6	SUMMER BREAK	7	8	SUMMER BREAK	9	10
Dual Degree B.Tech. (IT)-MBA-IT(ITM)	ALL COURSES SAME AS B.TECH (IT) upto VI Semester						Summer Project / Internship IPRJ710P [10]	ISIM732C [5]	MPMC820C [2]		MSTM920C [2]	IICCX20C [2]
								MORB720C [2]	MFNM820C [2]		IBOP920C [2]	IDMWX22C [4]
								MFACT720C [2]	MHRM820C [2]		MREM922C [4]	ICITX20C [2]
								MBUE720C [2]	MPOM820C [2]		IISM920C [2]	MIBMX20C [2]
								MBUL720C [2]	MMRM820C [2]		ISWA922C [4]	MELT-3 X20E [2]
								ELT-1 730E [3]			MEDI920C [2]	MELT-4 X20E [2]
											MELT-1 920E [2]	MELT-5 X20E [2]
Theory Credits:							0	14	10		16	16
Lab Credits:							10	2	0		6	8
Total Credits:							10	16	10		22	24

5 Years Dual Degree B.Tech.(ECE) - MBA (IT) Program 2016												
SEMESTER	1	2	3	4	5	6	SUMMER BREAK	7	8	SUMMER BREAK	9	10
Dual Degree B.Tech.(ECE)-MBA-IT(ECM)	ALL COURSES SAME AS B.TECH (ECE) upto VI Semester						Summer Project / Internship EPRJ710P [10]	EESD732C [5]	MPMC820C [2]		MSTM920C [2]	IICCX20C [2]
								EWCN732C [5]	MFNM820C [2]		IBOP920C [2]	IDMWX22C [4]
								MORB720C [2]	MHRM820C [2]		MREM922C [4]	ICITX20C [2]
								MFACT720C [2]	MPOM820C [2]		IISM920C [2]	MIBMX20C [2]
								MBUE720C [2]			ISWA922C [4]	MELT-3 X20E [2]
								MBUL720C [2]			MEDI920C [2]	MELT-4 X20E [2]
											MELT-1 920E [2]	MELT-5 X20E [2]
Theory Credits:							0	14	8		16	16
Lab Credits:							10	4	0		6	8
Total Credits:							10	18	8		22	24

Additional Electives may be followed depending upon the availabilities of faculty members.

M.B.A. Master of Business Administration 2016					
SEMESTER	1	2	SUMMER BREAK	3	4
M.B.A.	1	MFAC120 C [2]	MREM 222 C [4]	MSTM 320 C [2]	IICC 420C [2]
	2	SBSS 122 C [4]	MFNM 220 C [2]	IBOP 320C [2]	IDMW 422C [4]
	3	MPOM 120 C [2]	MOPM 220 C [2]	MORB 320 C [2]	ICIT 420 C [2]
	4	MMGE120 C [2]	SOPR 222 C [4]	IISM 320 C [2]	MIBM 420 C [2]
	5	MBUE120 C [2]	MHRM 220 C [2]	ISWA 322 C [4]	ELT-3 420 E [2]
	6	IMIS 120 C [2]	MMRM 220 C [2]	MEDI 320 C [2]	ELT-4 420 E [2]
	7	ICNW 122C [4]	IDMS 220 C [2]	ELT-1 320 E [2]	ELT-5 420 E [2]
	8	MBUL120 C [2]	MPMC 220 C [2]	ELT-2 320 E [2]	ELT-6 420 E [2]
	9			Summer Internship: MSTP 302 P [2]	Master Project: MSTP 406 P [6]
Theory Credits:	16	16		16	16
Lab Credits:	4	4		4	8
Total Credits:	20	20		20	24

* Please note: In the Prerequisite Subject Code, M.B.A. Code is provided. For Dual degree B.Tech-M.B.A. programme, the code will appropriately change to the Dual Degree programme code.

	Subject Code for MBA Programme	Subject Code for Dual degree B.Tech-M.Tech. Programme	Subject Title	Type (CE/EP)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
1	MFAC 120 C	MFAC 720 C	Financial Accounting	C	2	0	2	
2	SBSS 122 C		Business Statics	C	2	2	4	
3	MPOM 120 C		Principles of Management	C	2	0	2	
4	MMGE 120 C		Managerial Economics	C	2	0	2	
5	MBUE 120 C	MBUE 720 C	Business Environment	C	2	0	2	
6	IMIS 120C		Management Information Systems	C	2	0	2	
7	ICNW 122 C		Computer Networks	C	2	2	4	
8	MBUL 120 C	MBUL 720 C	Business Law	C	2	0	2	
TOTAL:					16	4	20	
9	MREM 222 C	MREM 922 C	Research Methodology	C	2	2	4	
10	MFNM 220 C	MFNM 820 C	Financial Management	C	2	0	2	
11	MOPM 220 C	MOPM 820 C	Operations and Production Management	C	2	0	2	
12	SOPR 222 C		Operation Research	C	2	2	4	
13	MHRM 220 C	MHRM 820 C	Human Resource Management	C	2	0	2	
14	MMRM 220 C	MMRM 820 C	Marketing Management	C	2	0	2	
15	IDMS 220 C		Database Management Systems	C	2	0	2	
16	MPMC 220 C	MPMC 820 C	Process Management and Consulting	C	2	0	2	
TOTAL:					16	4	20	
17	MSTM 320 C	MSTM 920 C	Strategic Management	C	2	0	2	
18	IBOP 320 C	IBOP 920 C	Business Continuity Plan and DRP	C	2	0	2	
19	MORB 320 C	MORB 720 C	Organizational Behaviour	C	2	0	2	
20	IISM 320 C	IISM 920 C	IT Infrastructure and Services Mgt.	C	2	0	2	
21	ISWA 322 C	ISWA 922 C	Social Media and Web Analytics	C	2	2	4	
22	MEDI 320 C	MEDI 920 C	Entrepreneurship Development and Innovation	C	2	0	2	
23	ELT-1 340 E	ELT-1 940 E	Elective I (from one specialization)	E	2	0	2	
24	ELT-2 340 E	ELT-2 940 E	Elective II (from Second specialization)	E	2	0	2	
25	MSTP 302 P	MSTP 902 P	Literature Review Problem Formulation and Synopsis Submission (R)/Summer Internship PG	P	0	2	2	
TOTAL:					16	4	20	
26	IICC 420C	IICC X20 C	IT Strategy and Cloud Computing	C	2	0	2	
27	IDMW 422 C	IDMW X22 C	Data Mining and Warehousing	C	2	2	4	
28	ICIT 420 C	ICIT X20 C	COBIT	C	2	0	2	
29	MIBM 420 C	MIBM X20 C	International Business Management	C	2	0	2	
30	ELT-3 440 E	ELT-3 X20 E	Elective IA (from one specialization)	C	2	0	2	
31	ELT-4 440 E	ELT-4 X20 E	Elective IB (from same as IA specialization)	C	2	0	2	
32	ELT-5 440 E	ELT-5 X20 E	Elective IIA (from second specialization)	C	2	0	2	
33	ELT-6 440 E	ELT-6 X20 E	Elective IB (from same as IIA specialization)	C	2	0	2	
34	MSTP 406 P	MSTP X06 P	Mini Project based on Ph.D. Topic (R)/ Master Project (PG)	P	0	6	6	
TOTAL:					16	6	24	

Elective Baskets	Electives(ELT - 1 & 2) III Semester (IX Semester for Dual Degree B.Tech.-MBA.)			Type (CIE/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
Marketing	MASM 320 E	MASM 920 E	Advertising and Social Media Strategy	E	2	0	2	MMRM 320 C
	MMOS 320 E	MASM 920 E	Marketing of Services	E	2	0	2	MMRM 320 C
	MDGM 320 E	MASM 920 E	Digital Marketing	E	2	0	2	MMRM 320 C
Finance	MTPF 320	MASM 920 E	Tax Planning and Financial Reporting	E	2	0	2	No
	MSPM 320 E	MASM 920 E	Security Analysis and Portfolio Management	E	2	0	2	MFNM 320 C
	MFAR 320 E	MASM 920 E	Financial Auditing and Reporting	E	2	0	2	No
Operations	MPML 320 E	MASM 920 E	Procurement Management & E-Logistics	E	2	0	2	MOPM 320 C
	MOSM 320 E	MASM 920 E	Operation, Strategic Cost Management	E	2	0	2	MOPM 320 C
	MQAC 320 E	MASM 920 E	Quality Assurance and Control	E	2	0	2	MOPM 320 C
IT	ISEO 320 E	MASM 920 E	Search Engine Optimization	E	2	0	2	No
	IRVT 320 E	MASM 920 E	Risk Vulnerability and Physical Assessment	E	2	0	2	No
	IFIS 320 E	MASM 920 E	Fundamentals of Information Security	E	2	0	2	No
HR	MEIL 320 E	MASM 920 E	Emotional Intelligence and Leadership	E	2	0	2	MHRM 320 C
	MEBB 320 E	MASM 920 E	Employer Brand Building	E	2	0	2	MHRM 320 C
Elective Baskets	Electives(ELT - 3, 4, 5 & 6) IV Semester (X Semester for Dual Degree B.Tech.-MBA.)			Type (CIE/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
Marketing	MRTM 420 E	MRTM X20 E	Retail Management	E	2	0	2	Electives
	MITM 420 E	MITM X20 E	International Marketing	E	2	0	2	Electives
	MIDM 420 E	MIDM X20 E	Industrial Marketing	E	2	0	2	Electives
	MKAM 420 E	MKAM X20 E	Business Marketing & Key Account	E	2	0	2	Electives
	MTLM 420 E	MTLM X20 E	Telecommunication Marketing	E	2	0	2	Electives
	MCBC 420 E	MCBC X20 E	Consumer Behavior & CRM	E	2	0	2	Electives
Finance	MFIE 420 E	MFIE X20 E	Financial Engineering	E	2	0	2	Electives
	MEAA 420 E	MEAA X20 E	Environment Analysis Accounting	E	2	0	2	Electives
	MIFM 420 E	MIFM X20 E	International Financial Management	E	2	0	2	Electives
	MFIS 420 E	MFIS X20 E	Management of Financial Institutions and Services	E	2	0	2	Electives Opted in Finance Area
	MACM 420 E	MACM X20 E	Merger, Acquisition and Corporate Restructuring	E	2	0	2	Electives Opted in
	MRKM 420 E	MRKM X20 E	Risk Management	E	2	0	2	Electives
Operations	MPRM 420 E	MPRM X20 E	Project Management	E	2	0	2	Electives
	MKNM 420 E	MKNM X20 E	Knowledge Management	E	2	0	2	Electives
	MTQM 420 E	MTQM X20 E	Total Quality Management	E	2	0	2	Electives
	SMMD 420 E	SMMD X20 E	Mathematical Models for Management Decisions	E	2	0	2	Electives Opted in
	MMIC 420 E	MMIC X20 E	Material Management and Inventory Control	E	2	0	2	Electives Opted in
	IESD 420 E	IESD X20 E	Expert System Design and Applications	E	2	0	2	Electives
IT	ISSE 420 E	ISSE X20 E	System Analysis & Design and Software Engineering	E	2	0	2	Electives Opted in IT
	ISPM 420 E	ISPM X20 E	Software Project Management	E	2	0	2	Electives
	IBUI 420 E	IBUI X20 E	Business Intelligence	E	2	0	2	Electives
HR	MSRM 420 E	MSRM X20 E	Strategic HRM	E	2	0	2	Electives
	MCRI 420 E	MCRI X20 E	Creativity and Innovation	E	2	0	2	Electives
	MTRD 420 E	MTRD X20 E	Training and Development	E	2	0	2	Electives
Additional Electives may be followed depending upon the availabilities of faculty members.								

Dual Degree M.B.A. - Ph.D. 2016									
SEMESTER	1	2	3	4	SUMMER SEMESTER BREAK	5	6.....		
Dual Degree M.B.A. - Ph.D.	1	MFAC 120 C [2]	MREM 222 C [4]	MSTM 320 C [2]	IICC 420C [2]				
	2	SBSS 122 C [4]	MFNM 220 C [2]	IBDP 320C [2]	IDMW 422C [4]	Comprehensive / Ph.D. Candidacy Examination (2 Attempts to Clear)	Rules of Ph.D. program me shall apply		
	3	MPOM 120 C [2]	MOPM 220 C [2]	MORB 320 C [2]	ICIT 420 C [2]				
	4	MMGE120 C [2]	SOPR 222 C [4]	IISM 320 C [2]	MIBM 420 C [2]				
	5	MBUE120 C [2]	MHRM 220 C [2]	ISWA 322 C [4]	ELT-3 422 E [4]	Research Credits [16]	Research Credits [16]		
	6	IMIS 120 C [2]	MMRM 220 C [2]	MEDI 320 C [2]	ELT-4 422 E [4]				
	7	ICNW 122C [4]	IDMS 220 C [2]	ELT-1 322E [4]	ELT-5 422 E [4]				
	8	MBUL120 C [2]	MPMC 220 C [2]	ELT-2 322E [4]	ELT-6 422 E [4]				
				MSTP 302 P [2]	MSTP408 P [8]				
	9			Independent Study MINP 340C [4]					
Theory Credits:		16	16	20	16	0	0	0	
Lab Credits:		4	4	8	16	0	16	16	
Total Credits:		20	20	28	32	0	16	16	

M.Tech. in Information Technology with Different Specialization						
Semester	M.Tech. (IT) (HCI)	M.Tech. (IT) (IS)	M.Tech. (IT) - (RO)	M.Tech. (IT) - (SE)	M.Tech. (IT) - (WCE)	M.Tech. (IT) - (CLIS)
1	IAAP 113 C [4]	IAAP 113 C [4]	IAAP 113 C [4]	IAAP 113 C [4]	IAAP 113 C [4]	IAAP 113 C [4]
	IMIT 140 C [4]	IMIT 140 C [4]	IMIT 140 C [4]	IMIT 140 C [4]	IMIT 140 C [4]	IMIT 140 C [4]
	ICCP 140 C	ICCP 140 C [4]	ECSE 140C [4]	ISOM 140 C [4]	IINP140 C [4]	IINP 140C [4]
	ICII 140 C [4]	ICII 140 C [4]	IMFR 140 C [4]	ISRE 140 C [4]	EWCS140 C [4]	ICRP 140C [4]
	16	16	16	16	16	16
2	IAGA 240 C	IALS 240 C [4]	IALS 240 C [4]	ISTQ 240 C [4]	IWNS 240 C [4]	ICLS 240 C [4]
	IIVP 240 C [4]	IIVP 240 C [4]	ISCO 240 C [4]	IASS 240 C [4]	IGRT 240 C [4]	INSE 240 C [4]
	ELT-1 240 E	ELT-1 240 E [4]	ELT-1 240 E [4]	ELT-1 240 E [4]	ELT-1 240 E [4]	ELT-1 240 E IADG-240-E
	ELT-2 240 E	ELT-2 240 E [4]	ELT-2 240 E [4]	ELT-2 240 E [4]	ELT-2 240 E [4]	ELT-2 240 E [4]
	16	16	16	16	16	16
3	ELT-3 340 E IRIQ-340-C	ELT-3 340 E [4]	ELT-3 340 E [4]	ELT-3 340 E [4]	ELT-3 340 E [4]	ELT-3 340 E [4]
	ELT-4 340 E	ELT-4 340 E [4]	ELT-4 340 E [4]	ELT-4 340 E [4]	ELT-4 340 E [4]	ELT-4 340 E [4]
	ITHS 312 P [12]	ITHS 312 P [12]	ITHS 312 P [12]	ITHS 312 P [12]	ITHS 312 P [12]	ITHS 312 P [12]
	20	20	20	20	20	20
4	ITHS 420 P [20]	ITHS 420 P [20]	ITHS 420 P [20]	ITHS 420 P [20]	ITHS 420 P [20]	ITHS 420 P [20]
	20	20	20	20	20	20

Same course offered in more than one specialization is marked in the same colour.

	Subject Code for M.Tech. Programme	Subject Code for Dual degree B.Tech-M.Tech. Programme	Subject Title	Type (CIE)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
11	IAAP113C		Algorithmic Analysis and Programming Practices	C	1	3	4	
12	IMIT140C	IMIT 740 C	Mathematics for IT	C	4	0	4	

Above are the two common course offered for all specialization.

M.Tech. IT with Specialization in Cyber laws and Information Security (CLIS) 2016					* Please note: In the Prerequisite Subject Code, M.Tech. Code is provided. For Dual degree B.Tech-M.Tech programme, the code will appropriately change to the Dual Degree programme code.
SEMESTER	1	2	3	4	
M.Tech. (IT) (CLIS)	1	IAAP 113 C [4]	ICLS 240 C [4]	ELT-3 340 E [4]	
	2	IMIT 140 C [4]	INSE 240 C [4]	ELT-4 340 E [4]	
	3	IINP 140 C [4]	ELT-1 240 E [4]	ITHS 312 P [12]	
	4	ICRP 140 C [4]	ELT-2 240 E [4]		
Theory Credits:		13	16	8	0
Lab Credits:		3	0	12	20
Total Credits:		16	16	20	20

		Subject Code for M.Tech. Programme	Subject Code for Dual degree B.Tech-M.Tech. Programme	Subject Title	Type (C/E)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
	1	IAAP 113 C		Algorithmic Analysis and Programming Practices	C	1	3	4	
	2	IMIT 140 C	IMIT 740 C	Mathematics for IT	C	4	0	4	
	3	IINP 140 C	IINP 740 C	Internet Protocols	C	4	0	4	
	4	ICRP 140 C	ICRP 740 C	Introduction to Cryptography	C	4	0	4	
TOTAL:						13	3	16	
	5	ICLS 140 C	ICLS 740 C	Cyber Laws and Security Standards	C	4	0	4	
	6	INSE 240 C	INSE 840 C	Network Security	C	4	0	4	ICRP 140 C
	7	ELT-1 240 E	ELT-1 840 E	Elective -1	E	4	0	4	
	8	ELT-2 240 E	ELT-2 840 E	Elective -2	E	4	0	4	
TOTAL:						16	0	16	
	9	ELT-3 340 E	ELT-3 840 E	Elective -3	E	4	0	4	
	10	ELT-4 340 E	ELT-4 840 E	Elective -4	E	4	0	4	
	11	ITHS 312 P	ITHS 912 P	M. Tech. Thesis	P	0	12	12	
TOTAL:						8	12	20	
	12	ITHS 420 P	ITHS X20 P	M. Tech. Thesis	P	0	20	20	
TOTAL:						0	20	20	

		Electives(ELT - 1 & 2) II Semester			Type (C/E)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code
		IADC 240 E	IADC 840 E	Advanced Cryptography	E	4	0	4	ICRP 140 C
		IMWS 240 E	IMWS 840 E	Mobile & Wireless Security	E	4	0	4	
		ICFN 240 E	ICFN 840 E	Computer Forensics	E	4	0	4	
		ISAC 240 E	ISAC 840 E	Security Architecture	E	4	0	4	
		ITRA 240 E	ITRA 840 E	Technical Risk Assessment	E	4	0	4	
		ISSE 240 E	ISSE 840 E	Software Security	E	4	0	4	
		IISA 240 E	IISA 840 E	Information Security Audit	E	4	0	4	
		IIAM 240 E	IIAM 840 E	Identity and Access Management	E	4	0	4	
		IWSN 240 E	IWSN 840 E	Wireless Sensor Networks	E	4	0	4	
		IMCL 240 E		Machine Learning Tools & Techniques	E	4	0	4	
		ISCO 240 E		Soft Computing	E	4	0	4	

Electives(ELT - 3 & 4) III Semester					Type (C/E)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code
		IDBS 340 E	IDBS 940 E	Database Security	E	4	0	4	
		IOSS 340 E	IOSS 940 E	Operating System Security	E	4	0	4	
		IBCP 340 E	IBCP 940 E	Business Continuity Planning and Disaster	E	4	0	4	
		ISCA 340 E	ISCA 940 E	Security Audit	E	4	0	4	
		ICVS 340 E	ICVS 940 E	Cloud and Virtualization Security	E	4	0	4	
		IISP 340 E	IISP 940 E	Information and Information System Privacy	E	4	0	4	
		IMQC340E		Mobile Computing	E	4	0	4	

Additional Electives may be followed depending upon the availabilities of faculty members.

M.Tech. IT with Specialization in Human Computer Interaction (HCI) 2016					
SEMESTER	1	2	3	4	
M.Tech. (IT) (HCI)	1	IAAP 113 C [4]	IIVP 240 C [4]	ELT-3 340 E [4]	ITHS 420 P [4]
	2	IMIT 140 C [4]	IAGA 240 C [4]	ELT-4 340 E [4]	
	3	ICCP 140 C [4]	ELT-1 240 E [4]	ITHS 312 P [12]	
	4	ICII 140 C [4]	ELT-2 240 E [4]		
Theory Credits:		13	16	8	0
Lab Credits:		3	0	12	20
Total Credits:		16	16	20	20

		Subject Code for M.Tech. Programme	Subject Code for Dual degree B.Tech-M.Tech. Programme	Subject Title	Type (C/E)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
	1	IAAP 113		Algorithmic Analysis and Programming Practices	C	1	3	4	
	2	IMIT 140 C	IMIT 740 C	Mathematics for IT	C	4	0	4	
	3	ICCP 140 C	ICCP 740 C	Cognition and Cognitive Process Modelling	C	4	0	4	
	4	ICII 140 C	ICII 740 C	Computational Intelligence	C	4	0	4	
				TOTAL:		13	3	16	
	5	IIVP 240 C	IIVP 840 C	Image and Video Processing	C	4	0	4	This course needs to be
	6	IAGA 240 C	IAGA 840 C	Advanced Graphics and Animation	C	4	0	4	
	7	ELT-1 240 E	ELT-1 840 E	Elective -1	E	4	0	4	
	8	ELT-2 240 E	ELT-2 840 E	Elective -2	E	4	0	4	
				TOTAL:		16	0	16	
	9	ELT-3 340 E	ELT-3 840 E	Elective -3	E	4	0	4	
	10	ELT-4 340 E	ELT-4 840 E	Elective -4	E	4	0	4	
	11	ITHS 312	ITHS 912 P	M. Tech. Thesis	P	0	12	12	
				TOTAL:		8	12	20	
	12	ITHS 420	ITHS X20 P	M. Tech. Thesis	P	0	20	20	
				TOTAL:		0	20	20	

		Electives(ELT - 1 & 2) II Semester			Type (C/E)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
		IADM 240 E	IADM 840 E	Advanced Database Management System	E	4	0	4	
		IDMW 240 E	IDMW 840 E	Data Mining and Warehousing	E	4	0	4	
		ISOC 240 E	ISOC 840 E	Soft Computing	E	4	0	4	
		IDSS 240 E	IDSS 840 E	Distributed Systems	E	4	0	4	
		INSE240E		Network Security	E	4	0	4	
		IQPT240E		Optimization Techniques	E	4	0	4	
		IMDM240E		Mobile Data Management	E	4	0	4	

		Electives(ELT - 3 & 4) III Semester			Type (C/E)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
		IPID340E	IPID 940 E	Principles of Interaction Design	E	4	0	4	
		IINR 340 E	IINR 940 E	Information Retrieval	E	4	0	4	
		IMOC340E		Mobile Computing	E	4	0	4	
		IVIR340E		Virtual Reality	E	4	0	4	

Additional Electives may be followed depending upon the availabilities of faculty members.

M.Tech. IT with Specialization in Intelligent Systems (IS) 2016									
M.Tech. (IT) (IS)	SEMESTER	1	2	3	4				
	1	IAAP 113 C [4]	ISOC 240 C [4]	ELT-3 340 E [4]	ITHS 420 P [4]				
	2	IMIT 140 C [4]	IIVP 240 C [4]	ELT-4 340 E [4]					
	3	ICCP 140 C [4]	ELT-1 240 E [4]	ITHS 312 P [12]					
	4	ICII 140 C [4]	ELT-2 240 E [4]						
Theory Credits:		13	16	8	0				
Lab Credits:		3	0	12	20				
Total Credits:		16	16	20	20				

		Subject Code for M.Tech. Programme	Subject Code for Dual degree B.Tech-M.Tech. Programme	Subject Title	Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
	1	IAAP 113 C		Algorithmic Analysis and Programming Practices	C	1	3	4	
	2	IMIT 140 C	IMIT 740 C	Mathematics for IT	C	4	0	4	
	3	ICCP 140 C	ICCP 740 C	Cognition and Cognitive Process Modelling	C	4	0	4	
	4	ICII 140 C	ICII 740 C	Computational Intelligence	C	4	0	4	
TOTAL:						13	3	16	
	5	IALS 240 C	IALS 840 C	Artificial Life simulation	C	4	0	4	
	6	IIVP 240 C	IIVP 840 C	Image and Video Processing	C	4	0	4	
	7	ELT-1 240 E	ELT-1 840 E	Elective -1	E	4	0	4	
	8	ELT-2 240 E	ELT-2 840 E	Elective -2	E	4	0	4	
TOTAL:						16	0	16	
	9	ELT-3 340 E	ELT-3 840 E	Elective -3	E	4	0	4	
	10	ELT-4 340 E	ELT-4 840 E	Elective -4	E	4	0	4	
	11	ITHS 312 P	ITHS 912 P	M. Tech. Thesis	P	0	12	12	
TOTAL:						8	12	20	
	12	ITHS 420 P	ITHS X20	M. Tech. Thesis	P	0	20	20	
TOTAL:						0	20	20	

		Electives(ELT - 1 & 2) II Semester		Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
		IDSD 240 E	IDSD 840 E	Digital System Design	E	4	0	4
		IDMW 240 E	IDMW 840 E	Data Mining & Warehousing	E	4	0	4
		IADM 240 E	IADM 840 E	Advance DataBase Management System	E	4	0	4
		IWSN 240 E	IWSN 840 E	Wireless Sensor Networks	E	4	0	4
		IALS240E		Artificial Life Simulation	E	4	0	4
		IMDM240E		Mobile Data Management	E	4	0	4
		INSE240E		Network Security	E	4	0	4
		IOPT240E		Optimization Techniques	E	4	0	4
		ICVI240E		Computer Vision	E	4	0	4

		Electives(ELT - 3 & 4) III Semester		Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
		IVIR 340 E	IVIR 940 E	Virtual Reality	E	4	0	4
		IINR 340 E	IINR 940 E	Information Retrieval	E	4	0	4
		IHR 340 E	IHR 940 E	Humanoid Robotics	E	4	0	4
		IIRS340E		Information Retrieval	E	4	0	4
		IMOC340E		Mobile Computing	E	4	0	4

Additional Electives may be followed depending upon the availabilities of faculty members.

M.Tech. IT with Specialization in Robotics (RO) 2016					
SEMESTER	1	2	3	4	
M.Tech. (IT) - (RO)	1	IAAP 113 C [4]	IALS 240 C [4]	ELT-3 340 E [4]	ITHS 420 P [4]
	2	IMIT 140 C [4]	ISCO 240 C [4]	ELT-4 340 E [4]	
	3	ECSE 140 C [4]	ELT-1 240 E [4]	ITHS 312 P [12]	
	4	IMFR 140 C [4]	ELT-2 240 E [4]		
Theory Credits:		13	16	8	0
Lab Credits:		3	0	12	20
Total Credits:		16	16	20	20

		Subject Code for M.Tech. Programme	Subject Code for Dual degree B.Tech-M.Tech. Programme	Subject Title	Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
	1	IAAP 113 C		Algorithmic Analysis and Programming Practices	C	1	3	4	
	2	IMIT 140 C	IMIT 740 C	Mathematics for IT	C	4	0	4	
	3	IMFR 140 C	IMFR 740 C	Mathematical Foundation of Robotics	C	4	0	4	
	4	ECSE 140 C	ECSE 740 C	Control System Engineering	C	4	0	4	
				TOTAL:		13	3	16	
	5	IALS 240 C	IALS 840 C	Artificial Life simulation	C	4	0	4	
	6	ISCO 240 C	ISCO 240 C	Soft Computing	C	4	0	4	
	7	ELT-1 240 E	ELT-1 840 E	Elective -1	E	4	0	4	
	8	ELT-2 240 E	ELT-2 840 E	Elective -2	E	4	0	4	
				TOTAL:		16	0	16	
	9	ELT-3 340 E	ELT-3 840 E	Elective -3	E	4	0	4	
	10	ELT-4 340 E	ELT-4 840 E	Elective -4	E	4	0	4	
	11	ITHS 312 P	ITHS 912 P	M. Tech. Thesis	P	0	12	12	
				TOTAL:		8	12	20	
	12	ITHS 420 P	ITHS X20	M. Tech. Thesis	P	0	20	20	
				TOTAL:		0	20	20	

		Electives(ELT - 1 & 2) II Semester			Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
		IIVP 240 E	IIVP 840 E	Image and Video processing	E	4	0	4	
		IWSN 240 E	IWSN 840 E	Wireless Sensor Networks	E	4	0	4	
		IDSS 240 E	IDSS 840 E	Distributed Systems	E	4	0	4	
		IOPT240E		Optimization Techniques	E	4	0	4	
		IAGA240E		Advanced Graphics and Animation	E	4	0	4	
		ICVI240E		Computer Vision	E	4	0	4	
		Electives(ELT - 3 & 4) III Semester			Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
		IHUR 340 E	IHUR 840 E	Humanoid Robotics	E	4	0	4	
		INDS 340 E	INDS 840 E	Nonlinear Dynamics	E	4	0	4	
		IRMP 340 E	IRMP 840 E	Robot Motion Planning	E	4	0	4	
		IVIR340E		Virtual Reality	E	4	0	4	

Additional Electives may be followed depending upon the availabilities of faculty members.

M.Tech. IT with Specialization in Software Engineering (SE) 2016					
SEMESTER	1	2	3	4	
M.Tech. (IT) - (SE)	1	IAAP 113 C [4]	ISTQ 240 C [4]	ELT-3 340 E [4]	ITHS 420 P [4]
	2	IMIT 140 C [4]	IASS 240 C [4]	ELT-4 340 E [4]	
	3	ISOM 140 C [4]	ELT-1 240 E [4]	ITHS 312 P [12]	
	4	ISRE 140 C [4]	ELT-2 240 E [4]		
Theory Credits:		13	16	8	0
Lab Credits:		3	0	12	20
Total Credits:		16	16	20	20

	Subject Code for M.Tech. Programme	Subject Code for Dual degree B.Tech-M.Tech. Programme	Subject Title	Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
1	IAAP 113 C		Algorithmic Analysis and Programming Practices	C	1	3	4	
2	IMIT 140 C	IMIT 740 C	Mathematics for IT	C	4	0	4	
3	ISOM 140 C	ISOM 740C	Software Metrics	C	4	0	4	
4	ISRE 140 C	ISRE 740C	Software Requirements and Estimation	C	4	0	4	
TOTAL:					13	3	16	
5	ISTQ 240 C	ISTQ 840 C	Software Testing & Quality Management	C	4	0	4	
6	IASS 240 C	IASS 840 C	Architecture of Software Systems	C	4	0	4	
7	ELT-1 240 E	ELT-1 840 E	Elective -1	E	4	0	4	
8	ELT-2 240 E	ELT-2 840 E	Elective -2	E	4	0	4	
TOTAL:					16	0	16	
9	ELT-3 340 E	ELT-3 840 E	Elective -3	E	4	0	4	
10	ELT-4 340 E	ELT-4 840 E	Elective -4	E	4	0	4	
11	ITHS 312 P	ITHS 912 P	M. Tech. Thesis	P	0	12	12	
TOTAL:					8	12	20	
12	ITHS 420 P	ITHS X20	M. Tech. Thesis	P	0	20	20	
TOTAL:					0	20	20	

Electives(ELT - 1 & 2) II Semester				Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
	IERP 240 E	IERP 840 E	Enterprise Resource Planning	E	4	0	4	
	IDMW 240 E	IDMW 840 E	Data Mining & Warehousing	E	4	0	4	
	IADM 240 E	IADM 840 E	Advanced Database Management System	E	4	0	4	
	IMCL240E		Machine Learning Tools and Techniques	E	4	0	4	
	IWSN240E		Wireless Sensor Networks	E	4	0	4	
	INSE240E		Network Security	E	4	0	4	
	IOPT240E		Optimization Techniques	E	4	0	4	
Electives(ELT - 3 & 4) III Semester				Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
	IOOS 340 E	IOOD 840E	Object Oriented Software	E	4	0	4	
	IMSE 340 E	IMSE 940 E	Mobile Software Engineering	E	4	0	4	
	IEMS 340 E	IEMS 940 E	Embedded Systems	E	4	0	4	
	IABS 340 E	IABS 940 E	Agent Based Systems	E	4	0	4	
	ICIS 340 E	ICIS 940 E	Cryptography & Information Security	E	4	0	4	
	ICCP340E		Cognition and Cognitive Process Modeling	E	4	0	4	
	IDCO340E		Data Compression	E	4	0	4	
	IVIR340E		Virtual Reality	E	4	0	4	
	IMOC340E		Mobile Computing	E	4	0	4	

Additional Electives may be followed depending upon the availabilities of faculty members.

M.Tech. IT with Specialization in Wireless Communication Engineering (WCE) 2016					
SEMESTER	1	2	3	4	
M.Tech. (IT) - (WCE)	1	IAAP 113 C [4]	EWNS 240 C [4]	ELT-3 340 E [4]	ITHS 420 P [20]
	2	IMIT 140 C [4]	IGRT 240 C [4]	ELT-4 340 E [4]	
	3	IINP140 C [4]	ELT-1 240 E [4]	ITHS 312 P [12]	
	4	EWCS140 C [4]	ELT-2 240 E [4]		
Theory Credits:	13	16	8	0	
Lab Credits:	3	0	12	20	
Total Credits:	16	16	20	20	

* Please note: In the Prerequisite Subject Code, M.Tech. Code is provided. For Dual degree B.Tech-M.Tech programme, the code will appropriately change to the Dual Degree programme code.

	Subject Code for M.Tech. Programme	Subject Code for Dual degree B.Tech-M.Tech. Programme	Subject Title	Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
1	IAAP 113 C		Algorithmic Analysis and Programming Practices	C	1	3	4	
2	IMIT 140 C	IMIT 740 C	Mathematics for IT	C	4	0	4	
3	IINP 140 C	IINP 740 C	Internet Protocols	C	4	0	4	
4	EWCS 140 C	EWCS 740 C	Wireless Communications	C	4	0	4	
TOTAL:					13	3	16	
5	IWNS 240 C	IWNS 840 C	Wireless Networks	C	4	0	4	EWCS 140 C
6	IGRT 240 C	IGRT 840 C	Graph Theory	C	4	0	4	
7	ELT-1 240 E	ELT-1 840 E	Elective -1	E	4	0	4	
8	ELT-2 240 E	ELT-2 840 E	Elective -2	E	4	0	4	
TOTAL:					16	0	16	
9	ELT-3 340 E	ELT-3 840 E	Elective -3	E	4	0	4	
10	ELT-4 340 E	ELT-4 840 E	Elective -4	E	4	0	4	
11	ITHS 312 P	ITHS 912 P	M. Tech. Thesis	P	0	12	12	
TOTAL:					8	12	20	
12	ITHS 420 P	ITHS X20 P	M. Tech. Thesis	P	0	20	20	
TOTAL:					0	20	20	

Electives(ELT - 1 & 2) II Semester				Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
IMWS 240 E	IMWS 840 E	Mobile & Wireless Security		E	4	0	4	
EOCN 240 E	EOCN 840 E	Optical Communication		E	4	0	4	
IDSS 240 E	IDSS 840 E	Distributed Systems		E	4	0	4	
EITC 240 E	EITC 840 E	Information Theory and Coding		E	4	0	4	
ISCO 240 E	ISCO 840 E	Soft Computing		E	4	0	4	
EARD 240 E	EARD 840 E	Antenna and RF Design		E	4	0	4	
IWSN 240 E	IWSN 840 E	Wireless Sensor Networks		E	4	0	4	
EDSP 240 E	EDSP 840 E	Digital Signal Processing		E	4	0	4	
INSE240E		Network Security		E	4	0	4	
IGRT240E		Graph Theory		E	4	0	4	
IOPT240E		Optimization Techniques		E	4	0	4	
Electives(ELT - 3 & 4) III Semester				Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
IMSE 340 E	IMSE 940 E	Mobile Software Engineering		E	4	0	4	
IMDM 340 E	IMDM 940 E	Mobile Data Management		E	4	0	4	
ICIS 340 E	ICIS 940 E	Cryptography and Information Security		E	4	0	4	
ECLN 340 E	ECLN 940 E	Cellular Networks		E	4	0	4	
ESAS 340 E	ESAS 940 E	Smart Antennas		E	4	0	4	
ERSC340E		Radar and Satellite Communication		E	4	0	4	
IDCO340E		Data Compression		E	4	0	4	
IMOC340E		Mobile Computing		E	4	0	4	

Additional Electives may be followed depending upon the availabilities of faculty members.

M.Tech. In Electronic and Communication Engineering with Specialization in Microelectronics (MI) (Upto 2018 batch)					
M.Tech. ECE-(MI) Microelectronics 2016					
SEMESTER		1	2	3	4
M.Tech. (ECE) (MI)	1	EESD 140 C [4]	EVDT 240 C [4]	EMES 340 E [4]	ETHS420P [20]
	2	EMSD 140 C [4]	EAIC 240 C [4]	EMIC 340 E [4]	
	3	EVL 140 C [4]	EHDM 240 C [4]	ETHS 312 P [12]	
	4	EDVD140C ELT-1 140 E	EVTV 240 C [4]		
Theory Credits:		16	16	8	0
Lab Credits:		0	0	12	20
Total Credits:		16	16	20	20

	Subject Code for M.Tech. Programme	Subject Code for Dual degree B.Tech-M.Tech. Programme	Subject Title	Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
1	EESD140C		Embedded System Design	C	4	0	4	
2	EDVD140C		Digital VLSI Design	C	4	0	4	
3	EMSD140C		Modeling of Semiconductor Devices	C	4	0	4	
4	EVL140C		VLSI Technology	C	4	0	4	
			TOTAL:		16	0	16	
5	EVDT240C		Advanced VLSI Devices and Technology	C	4	0	4	
6	EAIC240C		Analog Integrated Circuit Design	C	4	0	4	
7	EHDM240C		Hardware Design Methodology	C	4	0	4	
8	EVTV240C		VLSI Testing and Verification	C	4	0	4	
			TOTAL:		16	0	16	
9	EMES 340E		Micro Electromechanical Systems	C	4	0	4	
10	EMIC340E		Mixed Signal Integrated Circuit Design	C	4	0	4	
11	ETHS312P		M.Tech Thesis	P	0	12	12	
			TOTAL:		8	12	20	
12	ETHS420P		M.Tech Thesis	P	0	20	20	
			TOTAL:		0	20	20	
13	EESD 140 C	EESD 740C	Embedded System Design	C	4	0	4	
14	EMSD 140 C	EMSD 740 C	Modeling of Semiconductor Devices	C	4	0	4	
15	EVL 140 C	EVL 740 C	VLSI Technology	C	4	0	4	
16	ELT-1 140 E	ELT-1 740 E	Elective 1	C	4	0	4	
			TOTAL:		16	0	16	
17	EVDT 240 C	EVDT 840 C	Advanced VLSI Devices and Technology	C	4	0	4	
18	EAIC 240 C	EAIC 840 C	Analog Integrated Circuit Design	C	4	0	4	
19	EHDM 240 C	EHDM 840 C	Hardware Design Methodology	C	4	0	4	
20	EVTV 240 C	EVTV 840 C	VLSI Testing and Verification	E	4	0	4	
			TOTAL:		16	0	16	
21	EMES 340 E	EMES 940 E	Micro Electromechanical Systems	E	4	0	4	
22	EODC340E		Optoelectronic Devices and Circuits	E	4	0	4	
23	EMIC 340 E	EMIC 940 E	Mixed Signal Integrated Circuit Design	E	4	0	4	
24	ETHS 312 P	ETHS 912 P	M. Tech. Thesis	P	0	12	12	
			TOTAL:		12	12	24	
25	ETHS 420 P	ETHS X20 P	M. Tech. Thesis	P	0	20	20	
			TOTAL:		0	20	20	

Electives(ELT - 1 340 E) III Semester				Type (C/E/P)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code *
	EDVD340E	EDVD740E	Digital VLSI Design	E	4	0	4	
	ELPD340E	ELPD740E	Low Power System Design	E	4	0	4	
	EODC340E	EODC740E	Optoelectronic Devices and Circuits	E	4	0	4	

Additional Electives may be followed depending upon the availabilities of faculty members.

M.Tech. in Bioinformatics (BI) 2016					
SEMESTER	1	2	3	4	
M.Tech. (IT) (BI)	1	IAAP-113-C [4]	SOII 231 C [4]	ELT-1 331 E [4]	ITHS 420 P [20]
	2	SOMI 131 C [4]	SNGS 231 C [4]	ELT-2 331 E [4]	
	3	SBDA 131 C [4]	SCIM 231 C [4]	ITHS 312 P [12]	
	4	SBIS 131 C [4]	SMSP 231 C [4]		
	5	SSCE 131 C [4]			
Theory Credits:	12	12	8	0	
Lab Credits:	4	4	14	20	
Total Credits:	16	16	20	20	

		Subject Code for M.Tech. Programme	Subject Code for Dual degree B.Tech-M.Tech. Programme	Subject Title	Type (C/E)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code
	1	IAAP-113-C		Algorithmic Analysis and Programming Practices	C	4	3	4	
	2	SOMI 131 C	SOMI 731 C	Omics I (Molecular biology, biochemistry, genomics & proteomics)	C	3	1	4	
	3	SBDA 131 C	SBDA 731 C	Biological data analytics (Biomathematics and Biostatistics)	C	3	1	4	
	4	SBIS 131 C	SBIS 731 C	Biological Information system and management (Biomathematics and Biostatistics)	C	3	1	4	
	5	SSCE 131 C	SSCE 731 C	Scripting and Computer Environments (PERL, PYTHON, R)	C	3	1	4	
				TOTAL:		12	4	16	
	6	SOII 231 C	SOII 831 C	OMIC-II (Transcriptomics, Metabolonomics and systems biology)	C	3	1	4	
	7	SNGS 231 C	SNGS 831 C	Next Generation Sequencing Tools and Algorithms	C	3	1	4	
	8	SCIM 231 C	SCIM 831 C	Cheminformatics and Molecular modeling	C	3	1	4	
	9	SMSP 231 C	SMSP 831 C	Molecular Structure Prediction (Protein, DNA and RNA)	C	3	1	4	
				TOTAL:		12	4	16	
	10	ELT-1 331 E	ELT-1 931 E	Any two of the following common pool of electives jointly offered	E	3	1	4	
	11	ELT-2 331 E	ELT-2 931 E		E	3	1	4	
	12	SMLB 331 E	SMLB 931 E	Machine Learning in Biological System	E	3	1	4	
	13	SMMD 331 E	SMMD 931 E	Molecular Medicine	E	3	1	4	
	14	SBIP 331 E	SBIP 931 E	Biological imaging and Processing (Medical and molecular imaging and processing)	E	3	1	4	
	15	SCNS 331 E	SCNS 931 E	Computational Neurosciences	E	3	1	4	
	16	SBAN 331 E	SBAN 931 E	Big-data Analytics	E	3	1	4	
	17	SPRJ 312 P	SPRJ 912 P	M. Tech. Thesis	P	0	12	12	
				TOTAL:		6	14	20	
	18	STHS 420 P	STHS X20 P	M. Tech. Thesis	P	0	20	20	
				TOTAL:		0	20	20	

Additional Electives may be followed depending upon the availabilities of faculty members.

M.Tech. Courses + Dual Degree M.Tech. & PhD Courses 2016						
SEMESTER	1	2	SUMMER SEMESTER BREAK	3	4	5.....
Dual Degree M.Tech. - Ph.D.	1	All Courses same as Respective M.Tech. upto II Semester	Project [10] IRES 310 P	Research Methodology IREM340C [4]	Comp reh ensiv e / Ph. D. Res ear ch Credits [16]	Rules of Ph.D. programme shall apply
	2			Independent Study [4] IINP340C [4]		
	3			ELT-3 340 E [4]		
	4			ELT-4 340 E [4]		
UNITS	16	16	10	16	16	16
M.Tech. (IT) - (BI)	1	IAAP 113 C [4]	SOIL 231 C [4]	Project [10] IRES 310 P	ELT-3 340 E [4]	TH S-420 P [20]
	2	SOMI 131 C [4]	SNGS 231 C [4]		ELT-4 340 E [4]	
	3	SBDA 131 C [4]	SCIM 231 C [4]		THS 312 P [42]	
	4	SBIS 131 C [4]	SMSP 231 C [4]		IREM 340 C [4]	
	5	SSCE 131 C [4]			SINP340C [4]	
UNITS	16	16	10	16	16	16
M.Tech. (IT) (CLIS)	1	IAAP 113 C [4]	ICLS 240 C [4]	Project [10] IRES 310 P	ELT-3 340 E [4]	TH S-420 P [20]
	2	IMIT 140 C [4]	INSE 240 C [4]		ELT-4 340 E [4]	
	3	IINP 140C [4]	ELT-1 240 E IADC 240 E		THS 312 P [42]	
	4	ICRP 140C [4]	ELT-2 240 E [4]		IREM 340 C [4]	
	5				IINP340C [4]	
UNITS	16	16	10	16	16	16
M.Tech. (IT) (HCI)	1	IAAP 113 C [4]	IIVP 240 C [4]	Project [10] IRES 310 P	ELT-3 340 E IPID-340-C	TH S-420 P [20]
	2	IMIT 140 C [4]	IAGA 240 C [4]		ELT-4 340 E [4]	
	3	ICCP 140 C [4]	ELT-1 240 E [4]		THS 312 P [42]	
	4	ICII 140 C [4]	ELT-2 240 E [4]		IREM 340 C [4]	
	5				IINP340C [4]	
UNITS	16	16	10	16	16	16
M.Tech. (IT) (IS)	1	IAAP 113 C [4]	IALS 240 C [4]	Project [10] IRES 310 P	ELT-3 340 E [4]	TH S-420 P [20]
	2	IMIT 140 C [4]	IIVP 240 C [4]		ELT-4 340 E [4]	
	3	ICCP 140 C [4]	ELT-1 240 E [4]		THS 312 P [42]	
	4	ICII 140 C [4]	ELT-2 240 E [4]		IREM 340 C [4]	
	5				IINP340C [4]	
UNITS	16	16	10	16	16	16
M.Tech. (IT) - (RO)	1	IAAP 113 C [4]	IALS 240 C [4]	Project [10] IRES 310 P	ELT-3 340 E [4]	TH S-420 P [20]
	2	IMIT 140 C [4]	ISCO 240 C [4]		ELT-4 340 E [4]	
	3	ICSE 140C [4]	ELT-1 240 E [4]		THS 312 P [42]	
	4	IMFR 140 C [4]	ELT-2 240 E [4]		IREM 340 C [4]	
	5				IINP340C [4]	
UNITS	16	16	10	16	16	16

M.Tech. (IT) (SE)	1	IAAP 113 C [4]	ISTQ 240 C [4]	Project [10] IRES 310 P	ELT-3 340 E [4]	ETH S-420 P-120	
	2	IMIT 140 C [4]	IASS 240 C [4]		ELT-4 340 E [4]		
	3	ISOM 140 C [4]	ELT-1 240 E [4]		ETHS-312 P [42]		
	4	ISRE 140 C [4]	ELT-2 240 E [4]		IREM 340 C [4]		
	5				IINP340C [4]		
UNITS		16	16	10	16	16	16
M.Tech. (IT) (WCE)	1	IAAP 113 C [4]	IWNS 240 C [4]	Project [10] IRES 310 P	ELT-3 340 E [4]	ETH S-420 P-120	
	2	IMIT 140 C [4]	IGRT 240 C [4]		ELT-4 340 E [4]		
	3	IINP140 C [4]	ELT-1 240 E [4]		ETHS-312 P [42]		
	4	EWCS140 C [4]	ELT-2 240 E [4]		IREM 340 C [4]		
	5				IINP340C [4]		
UNITS		16	16	10	16	16	16
M.Tech. (ECE) (MI) upto 2016 Batch	1	EESD 140 C [4]	EVDT 240 C [4]	Project [10] ERES 310 P	EMES 340 E [4]	ETH S42 OP-120	Please Note: For Dual Degree M.Tech-Ph.D. EMES 340 E and EMIC 340 E will be taken instead of ELT-3 and ELT-4
	2	EMSD 140 C [4]	EAIC 240 C [4]		EMIC 340 E [4]		
	3	EVL T 140 C [4]	EHD M 240 C [4]		ETHS-312 P [42]		
	4	ELT-1 140 E [4]	EVT V 240 C [4]		IREM 340 C [4]		
	5				IINP340C [4]		
UNITS		16	16	10	16	16	16
M.Tech. (ECE) from 2017 Batch	1	EEMS 140 C [4]	ELT2 240 E [4]	Project [10] ERES 310 P	ELT6 340 E [4]	ETH S42 OP-120	Please Note: For Dual Degree M.Tech-Ph.D. EMWC 340 E and ELT-2 340 E will be taken instead of ELT-3 and ELT-4
	2	EADS 140 C [4]	ELT3 240 E [4]		ELT7 340 E [4]		
	3	EWCE 140 C [4]	ELT4 240 E [4]		ETHS-312 P [42]		
	4	EADA 140 C [4]	ELT5 240 E [4]		IREM 340 C [4]		
	5				IINP340C [4]		
UNITS		16	16	10	16	16	16
M.Tech. (BME) from 2017 Batch	1	SANP 131 C [4]	SMIA 231 C [4]	Project [10] SRES 310 P	ELT-1 331 E [4]	ETH S-420 P-120	Please Note: For Dual Degree M.Tech-Ph.D. ELT-1 331 E and ELT-2 331 E will be taken instead of ELT-3 and ELT-4
	2	SBCI 131 C [4]	SMIS 231 C [4]		ELT-2 331 E [4]		
	3	SMSA 131 C [4]	SBMC 231 C [4]		ETHS-312 P [42]		
	4	SRTS 131 C [4]	SBSM 231 C [4]		IREM 340 C [4]		
	5				IINP340C [4]		
UNITS		16	16	10	16	16	16

The struck off courses are the M.Tech course which are dropped by the M.Tech.- Ph.D. students.

(IES)THS-312-P-120	ETH S-420 P-120	COURSE Dropped
--------------------	-----------------------	----------------

If and only if the student fails in the Comprehensive / Ph.D. Candidacy Examination (2 Attempts), then the Student takes an Exit Policy and the registers for the dropped courses in the 5th and 6th Semester.

	Subject Code for Ph.D. Programme	Subject Code for Dual degree M.Tech.-Ph.D Programme	Subject Title	Type (C/E)	Theory Credits	Lab Credits	Total	Prerequisite Subjects Code
1	IREM 140 C	IREM 340 C	Research Methodology	C	4	0	4	
2	(IES)_INP 140 C	(IES)_INP 330 C	Independent Study	C	3	0	3	

For other Courses see the respective M. Tech program pages....

ACADEMIC REQUIREMENT

Minimum Residence, Maximum Duration and Academic Requirements.

The following table lists the minimum residence and maximum duration allowed in the programmes, and credits requirements for graduation in the various programmes: "Course Work" includes only postgraduate course credits unless otherwise stated. To satisfy the "Minimum Residence" requirements, registration must be over consecutive semesters; exception will be made only if the student is on authorized leave. "Maximum Duration" is counted from the student's first registration date. SGPI/CGPI will be calculated on the basis of all postgraduate courses taken by the student.

Table 1

Programme	Minimum Total Credit	Credits Through Course Work (Theory/ Lab) (Minimum)		Credits Through Project/ Research (Minimum)		Number of Courses				Minimum Residence	Maximum Duration
		Theory	Lab	Pro.	Res.	P	C	E	T		
B. Tech. (IT)	184	104	42	38	0	4	33	4	41	8 Sem	8 Years
B. Tech. (ECE)	192	111	46	35	0	4	34	5	43	8 Sem	8 Years
Dual degree B. Tech-(IT) M.B.A.	225	149	48	28	0	5	51	9	65	12 Sem(5 Yrs)	10 Years
Dual degree B. Tech-(ECE) M.B.A.	230	150	52	28	0	5	52	8	65	12 Sem(5 Yrs)	10 Years
Dual degree B. Tech-(IT) M.Tech.(SE,WCE,RO,HCI,IS)	237	133	42	52	10	6	38	6	50	12 Sem(5 Yrs)	10 Years
Dual degree B. Tech-(IT) M. Tech.(CLIS)	236	132	42	52	10	6	38	6	50	12 Sem(5 Yrs)	10 Years
Dual degree B. Tech-(IT) M. Tech.(BI)	234	123	49	52	10	6	38	5	49	12 Sem(5 Yrs)	10 Years
Dual degree B. Tech-(ECE)- M. Tech.(MI)	245	137	46	52	10	6	40	5	51	12 Sem(5 Yrs)	10 Years
Dual degree B. Tech-(ECE)- M. Tech.(BME)	240	126	52	52	10	6	40	4	50	12 Sem(5 Yrs)	10 Years
M. Tech. (IT)	72	40		32	0	2	6	4	12	4 Sem	4 Years
M. Tech. (ECE & BI)	72	40		32	0	2	8	2	12	4 Sem	4 Years
M.B.A.	84	64	12	8	0	2	26	6	34	4 Sem	4 Years

Pro: Project Credits, **Res:** Research Credits, **P:** Project, **C:** Core Courses, **E:** Elective Courses, **T:** Total

Department may specify minimum Credits through Courses over and above given in table 1

A department may prescribe, with prior approval of the SPGC, additional Credits of courses / Thesis over and above the minimum specified in the above table.