

Annex-3

B. Tech. (ECE) 2015 Batch

1st Sem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	ECAS130C	Circuit analysis and Synthesis		NIL
2	EEDC132C	Electronic Devices and circuits		NIL
3	SCDE130C	Calculus and Differential equation		NIL
4	SEGP132C	Engineering Physics		NIL
5	IIPG123C	Introduction to programming		NIL
6	MPCN102F	Professional Communication		NIL
7	EWIC102C	Introduction to Computers		NIL

2nd Sem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	EDES232C	Digital Electronics		NIL
2	ICOA230C	Computer Organization		According to the Dept. of IT
3	IDST232C	Data Structures		According to the Dept. of IT
4	MPOM220F	Principles of Management		NIL
5	IDMS230C	Discrete Mathematics		According to the Dept. of IT
6	EEWS203C	Electronic Workshop		NIL
7	SPAS230C	Probability and Statistics		NIL

3rdSem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	EACN332C	Analog Communication		NIL
2	EAES332C	Analog Electronics	1 st	EEDC132C: Electronic Devices and circuits
3	EEFW330C	Electromagnetic Field and Waves		NIL
4	EBEE332C	Basic Electrical Engineering		NIL
5	IOSY332C	Operating Systems		According to the Dept. of IT

4thSem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	ESAS430C	Signals and Systems	3 rd	EACN332C: Analog Communication
2	EEMI432C	Electronics Measurement and Instrumentation		NIL
3	EMIP432C	Microprocessor Interface and Programming	2 nd	EDES232C: Digital Electronics
4	EICT430C	Integrated Circuits Technology	1 st	EEDC132C: Electronic Devices and circuits
5	EMWE432C	Microwave Engineering	3 rd	EEFW330C: Electromagnetic Field and

				Waves
6	MMAM420F	Marketing Management		NIL

5thSem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	EDCN532C	Digital Communication	4 th	ESAS430C: Signals and Systems
2	ECSYS32C	Control Systems		NIL
3	ECNW532C	Computer Networks		NIL
4	EAWP532C	Antenna and Wave Propagation	3 rd	EEFW330C: Electromagnetic Field and Waves
5	MMEC520F	Managerial Economics		NIL
6	EPOP503P	Project-1		NIL

6thSem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	EVSD632C	VLSI System Design	2 nd	EDES232C: Digital Electronics
2	EDSP632C	Digital Signal Processing	4 th	ESAS430C: Signals and Systems
3	EOCN632C	Optical communication	5 th	EDCN532C: Digital Communication
4	EGPJ604P	Project-2		NIL

Electives (Any Two)

5	EPES630E	Power Electronics	1 st	EEDC132C: Electronic Devices and circuits
6	EITC630E	Information Theory and Coding	2 nd	SPAS230C: Probability and Statistics
			4 th	ESAS430C: Signals and Systems
7	IDPM632E	Database programming and Management		According to the Dept. of IT
8				
9				

7thSem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	EESD732C	Embedded System Design	4 th	EMIP432C: Microprocessor Interface and Programming
2	EWCE732C	Wireless Communication Engineering	5 th	EDCN532C: Digital Communication
3		Project-3		NIL
4		Elective -1		
5		Elective -2		
6		Elective -3		
List of Electives				
1	EDIP730E	Digital Image Processing	4 th	ESAS430C: Signals and Systems
2	EADS730E	Advanced Digital Signal Processing	6 th	EDSP632C: Digital Signal Processing
3	EAIC730E	Analog Integrated Circuit Design	3 rd	EAES332C: Analog Electronics
4	EMIC730E	Mixed Signal Integrated Circuit Design	3 rd	EAES332C: Analog Electronics

			6 th	EVSD632C: VLSI System Design
5	ERFC730E	Radio Frequency Circuit Design	3 rd	EAES332C: Analog Electronics
			4 th	EMWE432C: Microwave Engineering
6	EMSD730E	Modeling and Analysis of Semiconductor Devices	1 st	EEDC132C: Electronic Devices and circuits
7	EMES 730E	Micro Electromechanical Systems	4 th	EICT430C: integrated Circuits Technology
8	EMCS730E	Modern Control Systems	5 th	ECSY532C: Control Systems
9	ERSC730E	RADAR and Satellite Communication	5 th	EDCN532C: Digital Communication
			5 th	EAWP532C: Antenna and Wave Propagation
10	EONW730E	Optical Networks	6 th	EOCN632C: Optical communication
11	ICIS730E	Cryptography & Information Security		According to the Dept. of IT
12	IHUR730E	Humanoid Robotics		According to the Dept. of IT
13	ICPM730E	Cognition & Cognitive Process Modeling		According to the Dept. of IT
14	IABC730E	Mobile Data Management		According to the Dept. of IT
15	IDCN730E	Data Compression		According to the Dept. of IT

8th Sem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	EPRJ820P	Project-4		NIL

B. Tech. (ECE) 2014 Batch

1st Sem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	130	Circuit Analysis and Synthesis		NIL
2	132	Electronic Devices & Circuits		NIL
3	132	Physics – I		NIL
4	130	Mathematics - I		NIL
5	132	Introduction to Programming		NIL
6	102	Communication Skills Lab		NIL

2nd Sem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	232	Digital Electronics		NIL
2	230	Electromagnetic Field & Waves		NIL
3	232	Data Structure & Algorithm		According to Dept. of IT
4	232	Computer Organization & Architecture		According to Dept. of IT
5	230	Maths – II		NIL
6	230	Principal of Management of Economics		NIL

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	EACN332C	Analog Communication		NIL
2	EAES332C	Analog Electronics	1 st	EEDC132C: Electronic Devices and Circuits
3	SPSP330C	Probability and Statistics		NIL
4	EBEE332C	Basic Electrical Engineering		NIL
5	IOSY332C	Operating Systems		According to Dept. of IT

NOTE: From 4th semester onwards the 2015 curriculum structure is followed.

B. Tech. (ECE) 2013 Batch

1st Sem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	132	Introduction to Programming		NIL
2	132	Electronics Devices & Circuits		NIL
3	132	Physics – I		NIL
4	130	Mathematics – I		NIL
5	130	Electrical Engineering – I		NIL
6	130	Introduction to Computers		NIL
*	102	Communication Skills		NIL
*	102	Electronics Workshop		NIL

2nd Sem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	232	Data Structures		According to Dept. of IT
2	232	Digital Electronics		NIL
3	230	Mathematics – II		NIL
4	230	Physics - II		NIL
5	230	Principles of Management & Economics		NIL
	202	Communication Skill & Technical Writing		NIL
	202	Electronics Workshop		NIL

3rdSem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	332	Analog Communication		NIL
2	330	Mathematics – III		NIL
3	330	Computer Organization		According to Dept. of IT
4	332	Linear Integrated Circuits	1 st	Electronic Devices and Circuits
5	332	Electrical Engineering – 2		NIL
6	330	Signals & Systems		NIL

4thSem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	432	Microprocessor Programming & Infrastructure	2 nd	Digital Electronics
2	432	Microwave Engineering	2 nd	Electromagnetics Field and Waves
3	432	Electronic Measurement & Instrumentation		NIL
4	432	Digital Communication Engineering	3 rd	Signals & Systems
5	430	Microelectronics Technology	1 st	Electronic Devices and Circuits
6	430	Probability & Statistics Theory		NIL

5thSem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	IDBM532C	Database Management Systems		According to Dept. of IT
2	ECSY532C	Control Systems		NIL
3	ICNW532C	Computer Networks		According to Dept. of IT
4	EAWP532C	Antenna and Wave Propagation	3 rd	Electromagnetics Field and Waves
5	MMEC520F	Managerial Economics		NIL
6	EPRJ502P	Project-I		NIL

NOTE: From 6th semester onwards the 2015 curriculum structure is followed.

Database programming and Management cannot be offered as elective for 2013 batch in sixth semester

B. Tech. (ECE) 2012 Batch

1st Sem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	133	Introduction to Programming		NIL
2	132	Electronics Devices and Circuits		NIL
3	132	Physics –I		NIL
4	132	Mathematics –I		NIL
5	133	Electrical Engineering - I		NIL
6	102	Communication Skills		NIL
7	102	Electronics Workshop		NIL

2nd Sem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	232	Data Structures and Algorithms		According to Dept. of IT
2	232	Digital Electronics		NIL
3	230	Mathematics – II		NIL
4	232	Physics – II		NIL
5	230	Principles of Management and Economics		NIL

3rdSem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	332	Analog Communication		NIL
2	330	Mathematics – III		NIL
3	330	Computer Organization		According to Dept. of IT
4	332	Linear Integrated Circuits	1 st	Electronic Devices and Circuits
5	332	Electrical Engineering – 2		NIL
6	330	Signals & Systems		NIL

4thSem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	432	Database Management System		According to Dept. of IT
2	430	Principle of Programming Languages		According to Dept. of IT
3	432	Digital Communication		Signals and Systems
4	432	Design & Analysis of Algorithms		According to Dept. of IT
5	432	Probability and Statistics		NIL

5thSem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	532	Instrumentation and Control		NIL
2	532	Electronics System Design	1 st	Electronic Devices and Circuits
3	532	Power Electronics	1 st	Electronic Devices and Circuits
4	532	Antenna and Wave	3 rd	Electromagnetic Field and Waves
5	532	Computer Network		According to Dept. of IT
6	504	Mini Project		NIL

6thSem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	632	VLSI Design	2 nd	Digital Electronics
2	632	Digital Signal Processing	4 th	Signals and Systems
3	632	Optical Communication	5 th	Digital communication
4	602	Project		NIL
Electives (Any Two)				
5	630	Embedded System		NIL
6	630	Operation Research & Optimization		NIL
7	630	Image & Vision Processing	4 th	Signals and Systems

8	630	Soft Computing		According to Dept. of IT
9	630	Robotics & Industrial Automation		According to Dept. of IT

7thSem:

Sl.No.	Subject Code	Subject Title	Prerequisite subjects	
			Semester	code with title
1	ERSC730C	RADAR and Satellite Communication	5 th	Digital communication
2	EWCE732C	Wireless Communication Engineering	5 th	Digital communication
3		Elective -1		
4		Elective -2		
5		Elective -3		
6		Project-3		

NOTE: From 8th semester onwards the 2015 curriculum structure is followed.

SEMESTER	1	2	3	4	5	6	7	8
1	SPHY 132 C [5]	SPBS 432 C [5]	SMAT 230 C [5]	SMAT 330 C [3]	ICNE 532 C [5]	ICOD532 [5]	ISIM 732 [5]	IPRJ20 P [20]
2	SMAT 130 C [3]	IDMA 230 C [3]	ICPS 332 C [5]	IDAA 432 C [5]	ISOE 532 C [5]	IWBT523 [5]	IPHS 720 [2]	
3	ITC 102 C [2]	ICOA 230 C [3]	ITOC 330 [3]	IPPL 430 [3]	IAIN 532 C [5]	IDRW632 [5]	MORS 720 [2]	
4	IITP 132 C [5]	IDST 232 C [5]	IOMM 332 [5]	IDBM 432 [5]	ICVC 532 C [5]	ELT1 630 E [3]	ELT3 730 E [3]	
5	EEDC 132 C [5]	EDEL 232 C [5]	IIMP 332 [5]	EDCO 432 [5]	MPOE 530 C [3]	ELT2 630 E [3]	ELT4 730 E [3]	
6	ECAS 130 C [3]	MPOM 230 C [3]			IPRJ 505 P [5]	IPRJ 605 P [5]	IPRJ 705 [5]	
7	MLCS 102 C [2]							
UNITS	25	24	21	23	28	26	20	20

B.Tech. (IT)

SEM	Subject Code	Subject Title	Prerequisite Subjects Code	Prerequisite Subjects	SEM
20	SPHY 132 C	Physics-1			
21	SMAT 130 C	Mathematics-1			
22	ITC 102 C	Introduction to Computers			
23	IITP 132 C	Introduction to Programming			
24	EEDC 132 C	Electronic Devices & Circuits			
25	ECAS 130 C	Circuit Analysis and Synthesis			
26	MLCS 102 C	Language and Communication Skills			
27	ICPS 332 C	Maths-1	SMAT 130 C	Maths-1	
28	IDMA 230 C	Discrete Mathematics			
29	ICOA 230 C	Computer Organization and Architecture	ITC 102 C	Introduction to Computers	1
30	IDST 232 C	Data Structures	IITP 102 C	Introduction to Programming	1
31	EDEL 232 C	Digital Electronics			
32	MPOM 230 C	Principles of Management			
33	SMAT 330 C	Mathematics-2	SMAT 130 C	Maths-1	
34	ICPS 332 C	Operating System	ICOA 230 C	Computer Organization and Architecture, Data Structure	2
35	ITOC 330	Theory of Computation	IDMA 230 C	Discrete Mathematics	2
36	IOMM 332	Object Oriented Methodologies	IITP 102 C, IDST 232 C	Introduction to Programming, Data Structure	1,2
37	IIMP 332	Microprocessors	EDEL 232 C	Digital Electronics, Computer Organization & Architecture	2
38	SPHY 432 C	Mathematics-3	SMAT 330 C	Maths-2	
39	IDAA 432	Design and Analysis of Algorithms	IDMA 230 C	Discrete Mathematics, Data Structure	2
40	IDST 232 C	Data Structures	IDST 232 C	Data Structures	2
41	IPPL 430	Principles of Programming Languages	IDST 232 C	Data Structures, Theory of Computation	2
42	IDBM 432	Data Base Management System	IDMA 230 C	Discrete Mathematics	2
43	EEDC 432	Digital Communication	IDST 232 C	Data Structures	2

SEMESTER	1	2	3	4	5	6	7	8
1	SPHY 132 C (5)	SPBS 452 C (5)	SMAT 230 C (5)	SMAT 330 C (3)	ICNE 532 C (5)	ICOD632 (5)	ISIM 732 (5)	IPR182C P (30)
2	SMAT 130 C (3)	IDMA 230 C (3)	IDPS 332 C (5)	IDAA 432 C (5)	ISOE 532 C (5)	IWBT632 (5)	IPHS 736 (2)	
3	ITC 152 C (2)	ICOA 230 C (5)	TOC 330 (5)	IPPL 430 (3)	IAIN 532 C (5)	IDMW632 (5)	MCRB 720 (2)	
4	ICNE 532	IDST 232 C (5)	IDOM 332 (5)	IDBM 432 (5)	IGVC 532 C (5)	ELT1 630 E (3)	ELT3 730 E (3)	
5	EBDD 132 C (5)	EDAL 230 C (3)	IRIP 332 (5)	EDDD 432 (5)	MPOE 530 C (3)	ELT2 630 E (5)	ELT4 730 E (3)	
6	EOAG 130 C (3)	MPOM 230 C (5)			IPRJ 505 P (5)	IPRJ 605 P (5)	IPPU 705 (5)	
7	MICS 102 C (2)							
UNITS	25	24	21	23	28	25	20	20

B.Tech. (IT)

Sl. No.	Subject Code	Subject Title	Prerequisite Subjects Code	Prerequisite Subjects	SEM
51	ICNE 532	Computer Networks		Introduction to Programming, Digital Communication	1,3
52	ISOE 532	Software Engineering	ICDM 332	Object Oriented Methodologies	3
53	IRAW 332	Artificial Intelligence	IDAA 432	Design and Analysis of Algorithms	4
54	IGVC 532	Graphics and Visual Computing	IDST 232 C; SMAT 300 C	Data Structures, Maths-II (Linear Algebra)	2,3
55	MPOE 530	Principles of Economics			
56	IPRJ 505 P	Mini Project			
57	ICOD 632	Compiler Design	ITOC 330	Theory of Computation, Data Structure	3,2
58	WBT 623	Web Technologies	IITP 102 C; IDST 232 C	Computer Network, Data Structures	1,2
59	IDMW 532	Data Mining and Warehousing	IITP 102 C; IDST 232 C	Computer Network, Data Structure	1,2
60	ELT1 630 E	Elective -1	IDBM 432	Data Base Management System, Artificial Intelligence	4,5
61	ELT2 630 E	Elective -2			
62	IPRJ 605 P	Mini Project			

Sl. No.	Subject Code	Subject Title	Prerequisite Subjects Code	Prerequisite Subjects	SEM
63	SMAT 130 C	Optimization Techniques	SMAT 130 C	Mathematics-2 (Linear Algebra)	1
64	SMAT 330 C	Control System Engineering	SMAT 330 C	Mathematics-2 (Linear Algebra)	3
65	SMAT 430 C	Natural Language Processing	SMAT 430 C	Mathematics-3	4
66	IDAA 432	Design and Analysis of Algorithms	IDAA 432	Design and Analysis of Algorithms	4
67	SPBS 232 C; IDST 232 C	Probability & Statistics; Data Structure	SPBS 232 C; IDST 232 C	Probability & Statistics; Data Structure	2,2
68	SMA 330 C	(Mathematics-2) Linear Algebra	SMA 330 C	(Mathematics-2) Linear Algebra	3
69	SMA 330 C	(Mathematics-3) Linear Algebra	SMA 330 C	(Mathematics-3) Linear Algebra	3

Sl. No.	Subject Code	Subject Title	Prerequisite Subjects Code	Prerequisite Subjects	SEM
70	IPRJ 402	Introduction to Programming	IPRJ 402	Introduction to Programming	1
71	SMAT 330 C	Mathematics-2 (Linear Algebra)	SMAT 330 C	Mathematics-2 (Linear Algebra)	3
72	SPBS 330 C	Probability & Statistics	SPBS 330 C	Probability & Statistics	2
73	IPHS 720	Philosophy of Science			
74	MCRB 730	Organizational Behaviour			
75	ELT3 930 E	Elective -3			

Prerequisite for
IT Courses

Pre requisite (IT)

	Subject Code	Subject Title	Prerequisite Subjects Code	Prerequisite Subjects	SEM
11	SPHY 132 C	Physics-1			
12	SMAT 130 C	Mathematics-1			
13	IITC 102 C	Introduction to Computers			
14	IITP 102 C	Introduction to Programming			
15	EEDC 132 C	Electronic Devices & Circuits			
16	ECAS 130 C	Circuit Analysis and Synthesis			
17	MLCS 102 C	Language and Communication Skills			
21	SPBS 232 C	Probability & Statistics		Mathematics -1	
22	IDMA 230 C	Discrete Mathematics			
23	ICOA 230 C	Computer Organization and Architecture	IITC 102 C	Introduction to Computers	1
24	IDST 232 C	Data Structures	IITP 102 C	Introduction to Programming	1
25	EDEL 232 C	Digital Electronics			
26	MPOM 230 C	Principles of Management			
31	SMAT 330 C	Mathematics-2		Mathematics -1	
32	IOPS 332 C	Operating System	ICOA 230 C	Computer Organization and Architecture	2
33	ITOC 330	Theory of Computation	IDMA 230 C	Discrete Mathematics	2
34	IOOM 332	Object Oriented Methodologies	IITP 102 C	Data Structures	2
35	IMIP 332	Microprocessors	EDEL 232 C	Digital Electronics	2
41	SMAT 430 C	Mathematics-3		Mathematics-1	1
42	IDAA 432	Design and Analysis of Algorithms	IDMA 230 C	Discrete Mathematics	2
			IDST 232 C	Data Structures	2
43	IPPL 430	Principles of Programming Languages	IDST 232 C	Data Structures	2
44	IDBM 432	Data Base Management System	IDMA 230 C	Discrete Mathematics	2
			IDST 232 C	Data Structures	2
45	EDCO 432	Digital Communication			

	Subject Code	Subject Title	Prerequisite Subjects Code	Prerequisite Subjects	SEM
51	ICNE 532	Computer Networks		Digital Communication	
52	ISOE 532	Software Engineering	I00M 332	Object Oriented Methodologies	3
53	IAIN 532	Artificial Intelligence	IDAA 432	Design and Analysis of Algorithms	4
54	IGVC 532	Graphics and Visual Computing	IDST 232 C	Data Structures	2
55	MPOE 530	Principles of Economics			
56	IPRJ 505 P	Mini Project			

61	ICOD 632	Compiler Design	ITOC 330	Theory of Computation	3
			IITP 102 C	Introduction to Programming	1
62	IIVP 632C	Image and Vision Processing			
63	IDMW 632	Data Mining and Warehousing	IDBM 432	Data Base Management System	4
64	ELT1 630 E	Elective -1			
65	ELT2 630 E	Elective -2			
66	IPRJ 605 P	Mini Project			

Electives (ELT - 1 & 2) VI Semester **					
	SOOT 630E	Optimization Techniques	SMAT 130 C	Mathematics-1	1
			SMAT 330 C	Mathematics-2	3
	ECSE 630E	Control System Engineering	SMAT 430 C	Mathematics-3	4
	INLP 630E	Natural Language Processing			
	ISCO 630E	Soft Computing			
	IRIA 630E	Robotics & Industrial Automation			
	IISA630E	Information Security Audit			

71	SSIM 732	Simulation & Modelling	SMAT 130 C	Mathematics-1	1
			IITP 102 C	Introduction to programming	
			SPBS 232 C	Probability & Statistics	2
72	IPHS 720	Philosophy of Science			
73	MORB 720	Organizational Behaviour			
74	ELT3 630 E	Elective - 3			
75	ELT4 630 E	Elective - 4			
76	IPRJ 705 P	Mini Project			

Electives (ELT -3 & 4) VII Semester *					
	ICIS 730E	Cryptography & Information Security			
	IRMP 730E	Robot Motion Planning			
	IIRS 730E	Information Retrieval System		Data mining and warehousing	6
	ISLT 730E	Speech and Language Technologies			
	IMDM 730E	Mobile Data Management		Database Management Systems	4
	IDCO730E	Data Compression			
	IRSC 730E	Radar & Satellite Communication			
	IIVP 730E	Internet & Web Security Protocols			
	IMOC 730E	Mobile Computing			
	ICCS 730E	Cognition & Cognitive Systems			
	IPAC 730E	Parallel Computing			
	IHUR 730E	Humanoid Robotics			
	IMSE 730E	Mobile Software Engineering			
	IWSN 730E	Wireless Sensor Network			

81	IPRJ 720 P	Major Project	IPRJ 720 P [20]		
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* More Electives may be offered on availability of faculties to teach.