

2 nd	II	6	4	1	-	17	4	1	-	22
	I	6	4	-	-	18	4	-	-	22
3 rd	II	5	4	1 (with industrial training)	-	14	4	2 (with industrial training)	-	20
4 th	I	5	4	-	1	15	4	-	2	21
	II	4	4	1	1	12	4	1	4	21
Total:		44	29	4	2	125	29	5	6	165

Term wise Credit Hour:

Year-1 Term-I

Course Code	Course Title	Class hours/week		Credit
		Theory	Lab	
ICE-1101	Information Technology Fundamentals	3	-	3.00
ICE-1103	Electrical Circuits	3	-	3.00
ICE-1105	Introduction to Programming Environment	2	-	2.00
PHY-1103	Physics	2	-	2.00
HUM-1105	Economics	2	-	2.00
ENG-1109	Technical & Communication English	2	-	2.00
MATH-1111	Differential and Integral Calculus	3	-	3.00
ICE-1102	Information Technology Fundamentals Lab	-	1	1.00
ICE-1104	Electrical Circuits Lab	-	1	1.00
ICE-1108	Engineering Drawing (Lab)	-	1	1.00
Total		17	3	20.00

Information and Communication Engineering
Year-1 Term-II

Course Code	Course Title	Class hours/week		Credit
		Theory	Lab	
ICE-1201	Electronics-I (Semiconductor, Semiconductor Diodes and Transistor)	3	-	3.00
ICE-1203	Discrete Mathematics	3	-	3.00
ICE-1205	Computer Programming with C	3	-	3.00
HUM-1207	Financial and Managerial Accounting	2	-	2.00
MATH-1211	Linear Algebra, Geometry and Trigonometry	3	-	3.00
ICE-1202	Electronics-I (Semiconductor, Semiconductor Diodes and Transistor) Lab	-	1	1.00
ICE-1206	Programming with C Lab	-	1	1.00
ICE-1200	Seminar/Viva-Voce	-	1	1.00
Total		14	3	17.00

Year-2 Term-I

Course Code	Course Title	Class hours/week		Credit
		Theory	Lab	
ICE-2101	Electronic-II (Electronic Devices and Circuits)	3	-	3.00
ICE-2103	Object Oriented Programming (C++)	3	-	3.00
ICE-2105	Data Structure	3	-	3.00
ICE-2107	Computer Organization and Architecture	3	-	3.00
ICE-2109	Digital Logic Design	3	-	3.00
MATH-2113	Vector, Matrix and Numerical Analysis	3	-	3.00
ICE-2102	Electronic-II (Electronic Devices and Circuits) Lab	-	1	1.00
ICE-2104	Object Oriented Programming (C++) Lab	-	1	1.00
ICE-2106	Data Structure Lab	-	1	1.00
ICE-2110	Digital Logic Design Lab	-	1	1.00
Total		18	4	22.00

Information and Communication Engineering

Year-2 Term-II

Course Code	Course Title	Class hours/week		Credit
		Theory	Lab	
ICE-2201	Programming with Java	3	-	3.00
ICE-2203	Data Communication	3	-	3.00
ICE-2205	Algorithm Design and Analysis	3	-	3.00
ICE-2207	Database Management Systems	3	-	3.00
ICE-2209	Electromagnetic Fields and Waves	2	-	2.00
MATH-2211	Laplace, Fourier Series and Complex Variables	3	-	3.00
ICE-2202	Programming with Java Lab	-	1	1.00
ICE-2204	Data Communication Lab	-	1	1.00
ICE-2206	Algorithm Design and Analysis Lab	-	1	1.00
ICE-2208	Database Management Systems Lab	-	1	1.00
ICE-2200	Seminar/Viva-Voce		1	1.00
Total		17	5	22.00

Year-3 Term-I

Course Code	Course Title	Class hours/week		Credit
		Theory	Lab	
ICE-3101	Microprocessor and Interfacing	3	-	3.00
ICE-3103	Microwave Engineering	3	-	3.00
ICE-3105	Operating System	3	-	3.00
ICE-3107	Signals and Systems	3	-	3.00
ICE-3109	Peripheral Interfacing and Embedded System	3	-	3.00
MATH-3113	Statistics	3	-	3.00
ICE-3102	Microprocessor and Interfacing Lab	-	1	1.00
ICE-3104	Microwave Engineering Lab	-	1	1.00
ICE-3106	Operating System Lab	-	1	1.00
ICE-3108	Signals and Systems Lab	-	1	1.00
Total		18	4	22.00

Information and Communication Engineering

Year-3 Term-II

Course Code	Course Title	Class hours/week		Credit
		Theory	Lab	
ICE-3201	Digital Signal Processing	3	-	3.00
ICE-3203	Internet and Web Programming	2	-	2.00
ICE-3205	Computer Networks	3	-	3.00
ICE-3207	System Analysis and Design	3	-	3.00
ICE-3202	Digital Signal Processing Lab	-	1	1.00
ICE-3204	Internet and Web Programming Lab	-	1	1.00
ICE-3206	Networking Planning and Design Lab	-	1	1.00
ICE-3200	Industrial Training and Seminar/Viva - Voce	-	2	2.00
ICE-3209/11/13	Option-I (Select any one course)	3	-	3.00
ICE-3210/12/14	Option-I Lab (Select any one course)	-	1	1.00
Total		14	6	20.00

Option-I (Select any one course with related Lab)

Course Code	Course Title	Class hours/week		Credit
		Theory	Lab	
ICE-3209	Computer Graphics	3	-	3.00
ICE-3210	Computer Graphics Lab	-	1	1.00
ICE-3211	VLSI Design	3	-	3.00
ICE-3212	VLSI Design Lab	-	1	1.00
ICE-3213	Bio-Informatics	3	-	3.00
ICE-3214	Bio-Informatics Lab	-	1	1.00

Information and Communication Engineering

Year-4 Term-I

Course Code	Course Title	Class hours/week		Credit
		Theory	Lab	
ICE-4101	Artificial Intelligence and Neural Networks	3	-	3.00
ICE-4103	Software Engineering	3	-	3.00
ICE-4105	Antenna and Satellite Communication	3	-	3.00
ICE-4107	Wireless and Mobile communication	3	-	3.00
ICE-4109	Simulation and Modeling	3	-	3.00
ICE-4102	Artificial Intelligence and Neural Networks Lab	-	1	1.00
ICE-4104	Software Engineering Lab	-	1	1.00
ICE-4106	Antenna and Satellite Communication Lab	-	1	1.00
ICE-4108	Wireless and Mobile Communication Lab	-	1	1.00
ICE-4110	Project and Thesis	-	2	2.00
Total		15	6.00	21.00

Year-4 Term-II

Course Code	Course Title	Class hours/week		Credit
		Theory	Lab	
ICE-4201	Optical Communication	3	-	3.00
ICE-4203	Cryptography and Information Security	3	-	3.00
ICE-4205	Multimedia Communication	3	-	3.00
ICE-4202	Optical Communication Lab	-	1	1.00
ICE-4204	Cryptography and Information Security Lab	-	1	1.00
ICE-4206	Multimedia Communication Lab	-	1	1.00
ICE-4218	Project and Thesis	-	4	4.00
ICE-4200	Seminar/Viva – Voce	-	1	1.00
ICE-4207 /09/ 11/13/15	Option-II (Select any one course)	3	-	3.00
ICE-4208 /10/ 12/14/16	Option-II Lab (Select any one course)	-	1	1.00
Total		12.00	9.00	21.00

→ **Industrial Attachment**

Information and Communication Engineering

Optional-II (Select any one course with related Lab)

Course Code	Course Title	Class hours/week		Credit
		Theory	Lab	
ICE-4207	Digital Image Processing	3	-	3.00
ICE-4208	Digital Image Processing Lab	-	1	1.00
ICE-4209	Geographical Information System	3	-	3.00
ICE-4210	Geographical Information System Lab	-	1	1.00
ICE-4211	E-commerce and E-governance	3	-	3.00
ICE-4212	E-commerce and E-governance Lab	-	1	1.00
ICE-4213	Distributed and Parallel Computing	3	-	3.00
ICE-4214	Distributed and Parallel Computing Lab	-	1	1.00
ICE-4215	Nanoscience and Nanotechnology	3	-	3.00
ICE-4216	Nanoscience and Nanotechnology Lab	-	1	1.00