

**First Academic Year
1st Year, 1st Semester**

Course no	Course Title	Marks	Credit
ICE101	: <i>Fundamentals of Information & Communication Engineering</i>	50	2
ICE102	: <i>Electricity & Electromagnetism</i>	100	3
ICE103	: <i>Electronic Devices & Circuits</i>	100	3
ICE104	: <i>Digital Electronics</i>	100	3
ICE105	: <i>Computer Architecture & Organisation</i>	50	2
ICE110P	: <i>Practical I (Unit-I: Electricity; Unit-II: Electronics)</i>	100	4
First Semester Total		500	17

1st Year, 2nd Semester

Course no	Course Title	Marks	Credit
ICE 106	: <i>Programming language concepts</i>	100	3
ICE107	: <i>Discrete Mathematics and Numerical Methods</i>	50	2
ICE108	: <i>Algebra & Trigonometry</i>	50	2
ICE109	: <i>Calculus & Differential Equations</i>	50	2
ICE111P	: <i>Practical II : (Unit-I: Programming in C; Unit-II: Numerical Analysis)</i>	100	4
ICE112	: <i>Viva-Voce</i>	25	1
Second Semester Total		375	14

**Second Academic Year
2nd Year, 1st Semester**

Course no.	Course Title	Marks	Credit
<i>ICE201</i>	: <i>Operating Systems</i>	100	4
<i>ICE202</i>	: <i>Data Structure & Algorithm</i>	100	3
<i>ICE203</i>	: <i>Introduction to LTE</i>	50	2
<i>ICE204</i>	: <i>Object Oriented Programming with C++</i>	100	3
<i>ICE205</i>	: <i>Electromagnetic Theory and Antenna</i>	100	4
<i>ICE210P</i>	: <i>Practical I: (Unit-I: OOP with C++; Unit-II: Data Structure)</i>	100	4
Second Year First Semester Total		550	20

2nd Year, 2nd Semester

Course no	Course Title	Marks	Credit
ICE206	: <i>Communication Systems</i>	100	3
ICE207	: <i>Electronic Communications & Microwave Engineering</i>	100	4
ICE208	: <i>Statistics for Communication Engineering</i>	100	4
ICE209	: <i>Geometry & Vector Analysis</i>	50	2
ICE211P	: <i>Practical II: (Unit-I: Logic Circuits; Unit-II: Communication Signals & Systems)</i>	100	4
ICE212	: <i>Viva-voce</i>	25	1
Second Year Second Semester Total		475	18

Third Academic Year
3rd Year, 1st Semester

Course no.	Course Title	Marks	Credit
ICE301	: <i>Database Management Systems</i>	100	3
ICE302	: <i>Data Communications and Computer Networking</i>	100	3
ICE303	: <i>Telecommunication System Engineering</i>	100	4
ICE304	: <i>Programming in Java</i>	100	4
ICE310P	: <i>Practical I (Unit-I: Database; Unit-II: Programming in Java)</i>	100	4
ICE311P	: <i>Practical II :(Unit-I: Mathematical Models; Unit-II:Data Comm and Comp Net)</i>	100	4
Third Year First Semester Total		600	22

3rd Year, 2nd Semester

Course no	Course Title	Marks	Credit
ICE305	: <i>Microprocessors and Interfacing Devices</i>	100	3
ICE306	: <i>Optical Communications</i>	100	3
ICE307	: <i>Mathematics for Communication Engineering</i>	100	3
ICE308	: <i>Computer Graphics</i>	100	3
ICE309	: <i>Introduction to OFDM and 4G/5G systems</i>	50	2
ICE312P	: <i>Practical III: (unit-I: Tele Communication; Unit-II:Optical Communications)</i>	100	4
ICE313P	: <i>Practical IV: (Unit-I: Computer Graphics;Unit-II: Microprocessor programming)</i>	100	4
ICE314	: <i>Viva-voce</i>	25	1
Third Year Second Semester Total		675	23

Fourth Academic Year
4th Year, 1st Semester

Course no.	Course Title	Marks	Credit
<i>ICE401</i>	<i>Information Coding and Transmission</i>	100	3
<i>ICE402</i>	<i>Mobile and Cellular Communications</i>	100	4
<i>ICE403</i>	<i>System Analysis & Software Engineering</i>	100	3
<i>ICE404</i>	<i>MIS & Strategic Planning</i>	100	3
<i>ICE405</i>	<i>Data Warehouse and Data Mining</i>	100	3
<i>ICE410P</i>	<i>Practical I: (Unit-I; Mobile & Cellular Communication; Unit-II: Digital Signal Processing)</i>	100	4
Fourth Year First Semester Total		600	20

4thYear, 2nd Semester

Course no	Course Title	Marks	Credit
<i>ICE406</i>	<i>Multimedia Communications</i>	100	3
<i>ICE407</i>	<i>Artificial Intelligence and Expert Systems</i>	100	4
<i>ICE408</i>	<i>Digital Signal Processing</i>	100	3
<i>ICE409</i>	<i>Digital Image Processing</i>	100	3

<i>ICE411P</i>	<i>: Practical II: (Unit-I: Multimedia and Digital Image Processing; Unit-II: Artificial Intelligence)</i>	100	4
<i>ICE412P</i>	<i>: Practical III/Field work (Unit-I: Information Preprocessing and Presentation; Unit-II: Field works/ Industrial internship)</i>	100	4
<i>ICE413P</i>	<i>: Project (continue up to 4th year 2nd semester)</i>	100	4
<i>ICE414</i>	<i>: Viva- Voce</i>	25	1
Fourth Year Second Semester Total		725	26