

**Electronics and Communication Engineering**  
**Course Book \_Jan\_June\_2019**

<b>SEMESTER II _ECE_A</b>					
<b>Cat</b>	<b>Code</b>	<b>Title</b>	<b>L T P</b>	<b>Cr</b>	<b>ES</b>
SCI	15MAT121	Vector Calculus and Ordinary Differential Equations	3 1 0	4	<b>B</b>
SCI	15CHY100	Chemistry	3 0 0	3	<b>C</b>
ENGG	15CSE102	Computer Programming	3 0 0	3	<b>D</b>
ENGG	15ECE111	Solid State Devices	3 0 0	3	<b>E</b>
ENGG	15ECE112	Fundamentals of Electrical Technology	3 1 0	4	<b>A</b>
SCI	15CHY181	Chemistry Lab	0 0 2	1	<b>L1</b>
ENGG	15EEE180	Workshop B	0 0 2	1	<b>L2</b>
ENGG	15CSE180	Computer Programming Lab.	0 0 2	1	<b>L3</b>
HUM	15CUL111	Cultural Education II	2 0 0	2	<b>F</b>
				<b>22</b>	
<b>SEMESTER II _ECE_B</b>					
<b>Cat</b>	<b>Code</b>	<b>Title</b>	<b>L T P</b>	<b>Cr</b>	<b>ES</b>
SCI	15MAT121	Vector Calculus and Ordinary Differential Equations	3 1 0	4	<b>B</b>
SCI	15CHY100	Chemistry	3 0 0	3	<b>C</b>
ENGG	15CSE102	Computer Programming	3 0 0	3	<b>D</b>
ENGG	15ECE111	Solid State Devices	3 0 0	3	<b>E</b>
ENGG	15ECE112	Fundamentals of Electrical Technology	3 1 0	4	<b>A</b>
SCI	15CHY181	Chemistry Lab	0 0 2	1	<b>L1</b>
ENGG	15EEE180	Workshop B	0 0 2	1	<b>L2</b>
ENGG	15CSE180	Computer Programming Lab.	0 0 2	1	<b>L3</b>
HUM	15CUL111	Cultural Education II	2 0 0	2	<b>F</b>
				<b>22</b>	
<b>SEMESTER IV _ECE_A</b>					
<b>Cat</b>	<b>Code</b>	<b>Title</b>	<b>L T P</b>	<b>Cr</b>	<b>ES</b>
ENGG	15ECE211	Electronics Circuits	3 1 0	4	<b>A</b>
ENGG	15ECE212	Signal Processing II	3 1 0	4	<b>C</b>
ENGG	15ECE213	Transmission Lines and Waveguides	3 0 0	3	<b>D</b>
SCI	15MAT213	Probability and Random Process	3 1 0	4	<b>B</b>
HUM		Humanities Elective II		2	<b>H</b>
	15HUM242	The Message of Bhagavad Gita		2	<b>H</b>
	15HUM243	The Message of the Upanishads		2	<b>H</b>
	15SAN111	Sanskrit II		2	<b>H</b>
	15MAL111	Malayalam II		2	<b>H</b>
	15CUL230	Achieving excellence in life- an Indian perspective		2	<b>H</b>

	15HUM231	Glimpses into the Indian mind - Growth of Modern India		2	H
	15CUL233	Yoga Psychology		2	H
	15JAP231	Proficiency in Japanese Language(Higher)		2	H
	15FRE231	Proficiency in French Language(Higher)		2	H
	15GER233	Proficiency in German Language(Higher)		2	H
	15ENG232	Insights into Life through English Literature		2	H
ENGG	15ECE285	Digital Signal Processing Lab Batch 1	0 0 2	1	L1
		Digital Signal Processing Lab Batch 2			
ENGG	15ECE286	Electronic Circuits Lab Batch 1	0 0 2	1	L2
		Electronic Circuits Lab Batch 2			
HUM	15SSK211	Soft Skills I	1 0 2	2	G
HUM	15AVP211	Amrita Values Program II	1 0 0	1	F
				22	
<b>SEMESTER IV_ECE_B</b>					
Cat	Code	Title	L T P	Cr	ES
ENGG	15ECE211	Electronics Circuits	3 1 0	4	A
ENGG	15ECE212	Signal Processing II	3 1 0	4	C
ENGG	15ECE213	Transmission Lines and Waveguides	3 0 0	3	D
SCI	15MAT213	Probability and Random Process	3 1 0	4	B
HUM		Humanities Elective II		2	H
	15HUM242	The Message of Bhagavad Gita		2	H
	15HUM243	The Message of the Upanishads		2	H
	15SAN111	Sanskrit II		2	H
	15MAL111	Malayalam II		2	H
	15CUL230	Achieving excellence in life- an Indian perspective		2	H
	15HUM231	Glimpses into the Indian mind - Growth of Modern India		2	H
	15CUL233	Yoga Psychology		2	H
	15JAP231	Proficiency in Japanese Language(Higher)	1 0 2	2	H
	15FRE231	Proficiency in French Language(Higher)	1 0 2	2	H
	15GER233	Proficiency in German Language(Higher)	1 0 2	2	H
	15ENG232	Insights into Life through English Literature	1 0 2	2	H
ENGG	15ECE285	Digital Signal Processing Lab Batch 1	0 0 2	1	L1
		Digital Signal Processing Lab Batch 2			
ENGG	15ECE286	Electronic Circuits Lab Batch 1	0 0 2	1	L2
		Electronic Circuits Lab Batch 2			
HUM	15SSK211	Soft Skills I	1 0 2	2	G
HUM	15AVP211	Amrita Values Program II	1 0 0	1	F
				22	
<b>SEMESTER VI_ECE_A</b>					
Cat	Code	Title	L T P	Cr	ES
ENGG	15ECE311	Data Communication and Networks	3 0 0	3	A
ENGG	15ECE312	Digital Communication	3 1 0	4	B

ENGG	15ECE313	VLSI Design	3 0 0	3	C
ENGG	15ECE314	Computer System Architecture	3 0 0	3	D
ENGG		<b>Elective I* (Cap 35)</b>	3 0 0	3	<b>E</b>
	15ECE366	Embedded Systems			
	15ECE373	VLSI System Design			
	15ECE337	Analog and Mixed Circuit Design			
	15ECE345	Cellular and Mobile Communication System			
	15PHY240	Electronic Material Sciences	3 0 0	3	E
ENGG	15ECE385	Digital Communication Lab. Batch 1	0 0 2	1	L1
		Digital Communication Lab. Batch 2			
ENGG	15ECE386	VLSI Design Lab. Batch 1	0 0 2	1	L2
		VLSI Design Lab. Batch 2			
ENGG	15ECE387	<b>Open Lab. (Cap 27)</b>	0 1 2	2	L3
	15ECE387\1	Electromagnetics			
	15ECE387\2	Programming with Python			
	15ECE387\3	Speech Processing with Matlab			
	15ECE387\4	Verilog Programming			
	15ECE387\5	Communication with LabVIEW			
<b>NEW →</b>	15ECE387\6	Practical Physical Computing			
HUM	15SSK311	Soft Skills III	1 0 2	2	<b>G</b>
				<b>22</b>	
<b>SEMESTER VI_ECE_B</b>					
<b>Cat</b>	<b>Code</b>	<b>Title</b>	<b>L T P</b>	<b>Cr</b>	<b>ES</b>
ENGG	15ECE311	Data Communication and Networks	3 0 0	3	A
ENGG	15ECE312	Digital Communication	3 1 0	4	B
ENGG	15ECE313	VLSI Design	3 0 0	3	C
ENGG	15ECE314	Computer System Architecture	3 0 0	3	D
ENGG		<b>Elective I* (Cap 35)</b>	3 0 0	3	<b>E</b>
	15ECE366	Embedded Systems			
	15ECE373	VLSI System Design			
	15ECE337	Analog and Mixed Circuit Design			
	15ECE345	Cellular and Mobile Communication System			
	15PHY240	Electronic Material Sciences			Cap 70
ENGG	15ECE385	Digital Communication Lab.	0 0 2	1	L1
ENGG	15ECE386	VLSI Design Lab.	0 0 2	1	L2
ENGG	15ECE387	<b>Open Lab.(Cap 27)</b>	0 1 2	2	L3
	15ECE387\1	Electromagnetics			
	15ECE387\2	Programming with Python			
	15ECE387\3	Speech Processing with Matlab			
	15ECE387\4	Verilog Programming			
	15ECE387\5	Communication with LabVIEW			
	15ECE387\6	Practical Physical Computing			
HUM	15SSK311	Soft Skills III	1 0 2	2	<b>G</b>
				<b>22</b>	

SEMESTER VIII_ECE_A					
Cat	Code	Title	L T P	Cr	ES
Cat		<b>Elective IV* (Cap 35)</b>	3 0 0	3	E
	<b>15ECE363</b>	<b>Data Security</b>			
	<b>15ECE368</b>	<b>Introduction to Soft Computing</b>			
	<b>15CSE379</b>	<b>Connected IOT Devices</b>			
		<b>Elective V * (Cap 35)</b>	3 0 0	3	D
	<b>15ECE367</b>	<b>Hardware Security and Trust</b>			
	<b>15ECE324</b>	<b>Biomedical Image Processing</b>			
	<b>15ECE348</b>	<b>Microstrip Devices and Circuits</b>			
PRJ	ECE499	Project Phase II		10	P
				<b>16</b>	
SEMESTER VIII_ECE_B					
Cat	Code	Title	L T P	Cr	ES
Cat		<b>Elective IV* (Cap 35)</b>	3 0 0	3	E
	<b>15ECE363</b>	<b>Data Security</b>			
	<b>15ECE368</b>	<b>Introduction to Soft Computing</b>			
	<b>15CSE379</b>	<b>Connected IOT Devices</b>			
		<b>Elective V * (Cap 35)</b>	3 0 0	3	D
	<b>15ECE367</b>	<b>Hardware Security and Trust</b>			
	<b>15ECE324</b>	<b>Biomedical Image Processing</b>			
	<b>15ECE348</b>	<b>Microstrip Devices and Circuits</b>			
PRJ	ECE499	Project Phase II		10	P
				<b>16</b>	