

#A candidate is considered to have successfully fulfilled the requirement of a semester, provided he/ she submits to the department a certified journal reporting the experiments conducted during the semester.

**FINAL YEAR: ELECTRONICS AND
COMMUNICATION ENGINEERING
SCHEME OF INSTRUCTION AND EXAMINATION
(RC 2016-17)**

SEMESTER – VII

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	ThDur (Hrs)	Marks					
						Th	S	TW	P	O	Total
ETC/ECE 7.1	Microwave Engineering	4	--	2	3	100	25	--	--	--	125
ETC/ECE 7.2	Introduction to Soft Computing	3	1	2	3	100	25	--	25	--	150
ETC/ECE 7.3	Mobile Communication	3	1	--	3	100	25	--	--	--	125
ETC/ECE 7.4	Elective – I	3	1	2	3	100	25	--	--	25	150
ETC/ECE 7.5	Elective – II	3	1	2	3	100	25	--	--	25	150
ETC/ECE 7.6	Project	--	--	4	--	--	--	--	--	25	25
	TOTAL	16	4	12		500	125	--	25	75	725

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SEMESTER – VIII

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	ThDur (Hrs)	Marks					
						Th	S	TW	P	O	Total
ECE 8.1	Introduction to Java	3	1	2	3	100	25	--	25	--	150
ETC/ECE 8.2	Advanced Communication	3	1	2	3	100	25	--	--	--	125
ETC/ECE 8.3	Elective – III	3	1	2	3	100	25	--	--	25	150
ETC/ECE 8.4	Elective – IV	3	1	2	3	100	25	--	--	25	150
ETC/ECE 8.5	Project *	--	--	8	--	--	--	75	--	75	150
	TOTAL	12	4	16		400	100	75	25	125	725

* Term Work in Project is a separate Head of Passing

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LIST OF ELECTIVES FOR SEMESTER - VII

ELECTIVE 1		ELECTIVE 2	
Subject Code	Name of the Subject	Subject Code	Name of the Subject
ETC/ECE 7.4.1	Digital VLSI	ETC/ECE 7.5.1	Analog VLSI
ETC/ECE 7.4.2	Image Processing	ETC/ECE 7.5.2	Adaptive Signal Processing
ETC/ECE 7.4.3	Technical Writing and Professional Ethics	ETC/ECE 7.5.3	Numerical Methods and Approximation
ETC/ECE 7.4.4	Introduction to Robotics	ETC/ECE 7.5.4	Advanced Control Systems
ETC/ECE 7.4.5	Introduction to Databases	ETC/ECE 7.5.5	Introduction to MEMS
ETC/ECE 7.4.6	Computer Networks	ETC/ECE 7.5.6	Process Control Instrumentation
ETC/ECE 7.4.7	Introduction to Device Drivers	ETC/ECE 7.5.7	Secure Communications
ETC/ECE 7.4.8	Virtual Instrumentation	ETC/ECE 7.5.8	Introduction to ARM architecture
ETC/ECE 7.4.9	Optical Computing	ETC/ECE 7.5.9	Electronic Circuits: Design, Simulation and Testing
ETC/ECE 7.4.10	Electronic Material Science	ETC/ECE 7.5.10	Artificial Neural Network
ETC/ECE 7.4.11	Microwave Networks and Applications	ETC/ECE 7.5.11	Introduction to RF Design
ETC/ECE 7.4.12	Distributed Operating Systems	ETC/ECE 7.5.12	Introduction to GPU Computing
		ETC/ECE 7.5.13	Power Electronics

LIST OF ELECTIVES FOR SEMESTER - VIII

ELECTIVE 3		ELECTIVE 4	
Subject Code	Name of the Subject	Subject Code	Name of the Subject
ETC/ECE 8.3.1	Testing and Fault Tolerance	ETC/ECE 8.4.1	System on Chip
ETC/ECE 8.3.2	E-Commerce	ETC/ECE 8.4.2	Mobile Phone Programming
ETC/ECE 8.3.3	Speech Processing	ETC/ECE 8.4.3	Wavelets and Multirate Digital Signal Processing
ETC/ECE 8.3.4	Entrepreneurship	ETC/ECE 8.4.4	Advanced Mobile Networks
ETC/ECE 8.3.5	Mobile Robotics	ETC/ECE 8.4.5	Underwater Robotics
ETC/ECE 8.3.6	Advanced Computer Networks	ETC/ECE 8.4.6	Radar System Engineering
ETC/ECE 8.3.7	Motors and Drives	ETC/ECE 8.4.7	Optical Networking
ETC/ECE 8.3.8	Wireless Communication	ETC/ECE 8.4.8	Wireless Sensor Networks
ETC/ECE 8.3.9	Audio and Video Engineering	ETC/ECE 8.4.9	Consumer Electronics
ETC/ECE 8.3.10	Mobile Computing	ETC/ECE 8.4.10	Electromagnetic Interference/Electromagnetic Compatibility
ETC/ECE 8.3.11	Nanoelectronics	ETC/ECE 8.4.11	Introduction to Deep Neural Networks
ETC/ECE 8.3.12	Introduction to Artificial Intelligence	ETC/ECE 8.4.12	Statistical Theory of Communication
ETC/ECE 8.3.13	Biomedical Electronics and Instrumentation	ETC/ECE 8.4.13	Medical Imaging
ECE 8.3.14	Information Theory and		