SECOND YEAR: ELECTRICAL & ELECTRONICS ENGINEERING

SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

SEMESTER - III

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	Th Duration (Hrs)	Marks					
						Th	S	TW	P	O	Total
EE 3.1	Applied Mathematics-III	3	1	--	3	100	25	--	--	--	**125**
EE 3.2	Electronic Devices and Circuit	3	1	2	3	100	25	--	25	--	**150**
EE 3.3	Electrical Machines-I	3	1	2	3	100	25	--	25	--	**150**
EE 3.4	Electrical Measurements and Measuring Instruments	3	1	2	3	100	25	25	--	--	**150**
EE 3.5	Economics and Management	3	--	--	3	100	25	--	--	--	**125**
EE 3.6	Analog and Digital Communications	3	--	2	3	100	25	--	--	25	**150**
TOTAL		**18**	**4**	**8**	**--**	**600**	**150**	**25**	**50**	**25**	**850**

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.

SECOND YEAR: ELECTRICAL & ELECTRONICS ENGINEERING

SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

SEMESTER - IV

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	Th Duration (Hrs)	Marks					
						Th	S	TW	P	O	Total
EE 4.1	Numerical Techniques and Probability	3	1	2	3	100	25	--	--	--	**125**
EE 4.2	Electrical Machines-II	3	1	2	3	100	25	--	25	--	**150**
EE 4.3	Linear Integrated Circuits	3	1	2	3	100	25	--	25	--	**150**
EE 4.4	Digital Integrated Circuits	4	--	2	3	100	25	25	--	--	**150**
EE 4.5	Electrical Circuit Analysis and Synthesis	3	1	--	3	100	25	--	--	--	**125**
EE 4.6	Electrical Power	4	--	--	3	100	25	--	--	25	**150**
TOTAL		**20**	**4**	**8**	**--**	**600**	**150**	**25**	**50**	**25**	**850**

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THIRD YEAR: ELECTRICAL & ELECTRONICS ENGINEERING

SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

SEMESTER - V

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	Th Duration (Hrs)	Marks					
						Th	S	TW	P	O	Total
EE 5.1	Electromagnetic Theory	3	--	--	3	100	25	--	--	--	**125**
EE 5.2	Microprocessor and Interfacing	3	1	2	3	100	25	--	25	--	**150**
EE 5.3	Power Electronics	3	1	2	3	100	25	--	25	--	**150**
EE 5.4	Control Engineering	3	1	2	3	100	25	25	--	--	**150**
EE 5.5	Renewable Energy	4	--	--	3	100	25	--	--	--	**125**
EE 5.6	Electrical Machines-III	3	1	2	3	100	25	--	--	25	**150**
TOTAL		**19**	**4**	**8**	**--**	**600**	**150**	**25**	**50**	**25**	**850**

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THIRD YEAR: ELECTRICAL & ELECTRONICS ENGINEERING

SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

SEMESTER - VI

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
					Th Duration (Hrs)	Marks					
		L	T	P#		Th	S	TW	P	O	Total
EE 6.1	Power System Analysis	3	1	--	3	100	25	--	--	--	**125**
EE 6.2	Embedded Systems	3	1	2	3	100	25	--	25	--	**150**
EE 6.3	Electrical Drives and Control	4	--	2	3	100	25	--	25	--	**150**
EE 6.4	Electrical Machine Design	3	1	2	3	100	25	25	--	--	**150**
EE 6.5	Electronic Measurements and Virtual Instrumentation	3	1	--	3	100	25	--	--	--	**125**
EE 6.6	Digital Signal Processing	3	--	2	3	100	25	--	--	25	**150**
TOTAL		**19**	**4**	**8**	--	**600**	**150**	**25**	**50**	**25**	**850**

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FINAL YEAR: ELECTRICAL & ELECTRONICS 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#	Th Duration (Hrs)	Marks					
						Th	S	TW	P	O	Total
EE 7.1	Switchgear and Protection	3	1	--	3	100	25	--	--	--	**125**
EE 7.2	Advanced Drives and Control	4	--	2	3	100	25	--	--	--	**125**
EE 7.3	VLSI Circuit Design	3	1	2	3	100	25	--	25	--	**150**
EE 7.4	Elective - I	3	1	2	3	100	25	--	--	25	**150**
EE 7.5	Elective - II	3	1	2	3	100	25	--	--	25	**150**
EE 7.6	Project	--	--	4	3	--	--	--	--	25	**25**
TOTAL		**16**	**4**	**12**	**--**	**500**	**125**	**--**	**25**	**75**	**725**

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List of Electives

Elective I		Elective II	
EE 7.4.1	Power System Planning and Reliability	EE 7.5.1	Fuzzy Logic and Neural Networks
EE 7.4.2	HVDC Transmission	EE 7.5.2	Data Communication & Networking
EE 7.4.3	Smart Grid	EE 7.5.3	Image Processing
EE 7.4.4	Operations Research	EE 7.5.4	Statistics and Probability
EE 7.4.5	Electrical Design Estimation and Costing	EE 7.5.5	Advanced Controllers

FINAL YEAR: ELECTRICAL & ELECTRONICS ENGINEERING

SCHEME OF INSTRUCTION AND EXAMINATION

(RC 2016-17)

SEMESTER - VIII

Subject Code	Name of the Subject	Scheme of Instruction Hrs/Week			Scheme of Examination						
		L	T	P#	Th Duration (Hrs)	Marks					
						Th	S	TW	P	O	Total
EE 8.1	Flexible AC Transmission System	3	1	--	3	100	25	--	--	--	**125**
EE 8.2	PLC and its Applications	3	1	2	3	100	25	--	25	--	**150**
EE 8.3	Elective - III	3	1	2	3	100	25	--	--	25	**150**
EE 8.4	Elective - IV	3	1	2	3	100	25	--	--	25	**150**
EE 8.5	Project	--	--	8	3	--	--	75*	--	75	**150**
TOTAL		**12**	**4**	**14**	**--**	**400**	**100**	**75***	**25**	**125**	**725**

* **Term work in Project is separate Head of Passing**

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.

List of Electives

Elective III		Elective IV	
EE 8.3.1	Illumination Engineering	EE 8.4.1	Digital System Design using HDL
EE 8.3.2	Energy Auditing	EE 8.4.2	Biomedical Instrumentation
EE 8.3.3	Micro Grid and Distributed Generation	EE 8.4.3	Wireless Sensor Network
EE 8.3.4	Power System Operation and Control	EE 8.4.4	Advanced Control Systems
EE 8.3.5	Power Quality	EE 8.4.5	Switch Mode Power Converters
EE 8.3.6	High Voltage Engineering	EE 8.4.6	Entrepreneurship Development