

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	2	1	0	0	0	0	0	0	0	2	1	2
CO2	2	2	1	2	1	0	0	0	0	0	0	0	1	2	2
CO3	2	1	2	2	1	0	0	0	0	0	0	0	2	1	1
CO (AVG)	2.00	1.33	1.33	2.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	1.33	1.67

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	2	0	0	0	0	0	0	0	0	2	1	2
CO2	1	2	1	2	0	0	0	0	0	0	0	0	1	2	2
CO3	2	1	2	1	0	0	0	0	0	0	0	0	1	1	1
CO (AVG)	1.67	1.33	1.33	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.67

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	2	1	0	0	0	0	0	0	0	2	1	2
CO2	2	2	1	2	1	0	0	0	0	0	0	0	2	2	2
CO3	1	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO4	1	2	1	2	1	0	0	0	0	0	0	0	2	2	2
CO5	2	1	2	1	2	0	0	0	0	0	0	0	1	1	1
CO (AVG)	1.60	1.40	1.40	1.60	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.40	1.60

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO2	1	2	1	2	1	0	0	0	0	0	0	0	2	2	2
CO3	2	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO4	2	1	2	1	2	0	0	0	0	0	0	0	1	1	1
CO5	1	1	2	2	2	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.40	1.20	1.80	1.40	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.40	1.20

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	2	1	0	0	0	0	0	0	0	2	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	0	1	1	1
CO3	2	2	2	1	2	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.67	1.67	1.67	1.67	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	1.67	1.33

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	0	0	0	0	0	0	0	0	2	2	2
CO2	2	1	2	2	0	0	0	0	0	0	0	0	2	1	1
CO3	1	2	1	2	0	0	0	0	0	0	0	0	2	2	2
CO4	2	1	2	2	0	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.75	1.50	1.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.75	1.75	1.50

Technical Communication Year of study: 2019-20

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	0	0	0	0	0	0	0	0	2	2	2
CO2	2	1	2	2	0	0	0	0	0	0	0	0	2	1	1
CO3	1	2	1	2	0	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.67	1.67	1.33	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67

Electrical Circuit Design Lab Year of study: 2019-20

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	2	1	0	0	0	1	1	0	0	2	1	2
CO2	1	2	1	2	1	0	0	0	1	1	0	0	2	2	2
CO3	2	1	2	1	1	0	0	0	1	1	0	0	1	1	1
CO4	1	1	2	2	1	0	0	0	0	1	0	0	2	2	2
CO5	2	2	2	2	2	0	0	0	1	0	0	0	1	1	1
CO (AVG)	1.60	1.40	1.60	1.80	1.20	0.00	0.00	0.00	0.80	0.80	0.00	0.00	1.60	1.40	1.60

Electrical Machine Lab Year of study: 2019-20

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	2	1	0	0	0	1	1	0	0	2	2	2
CO2	2	1	2	1	1	0	0	0	1	1	0	0	1	1	1
CO3	2	1	2	1	2	0	0	0	1	1	0	0	2	1	2
CO (AVG)	1.67	1.33	1.67	1.33	1.33	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.67	1.33	1.67

Analog Electronics Lab Year of study: 2019-20

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	2	1	0	0	0	0	1	0	0	2	1	2
CO2	2	2	1	2	1	0	0	0	1	1	0	0	1	2	2
CO3	1	1	2	2	1	0	0	0	1	1	0	0	2	1	1
CO4	2	2	1	2	1	0	0	0	1	0	0	0	1	2	2
CO5	1	2	1	2	1	0	0	0	1	1	0	0	2	1	1
CO (AVG)	1.40	1.80	1.20	2.00	1.00	0.00	0.00	0.00	0.80	0.80	0.00	0.00	1.60	1.40	1.60

Biology Year of Study 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	0	0	0	0	0	0	0	0	2	1	2
CO2	2	2	1	2	0	0	0	0	0	0	0	0	1	2	2
CO3	1	1	2	2	0	0	0	0	0	0	0	0	2	1	1
CO4	2	2	1	1	0	0	0	0	0	0	0	0	1	2	2
CO5	1	2	1	2	0	0	0	0	0	0	0	0	2	1	1
CO (AVG)	1.40	1.60	1.20	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.40	1.60
Biology Year of Study 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	0	0	0	0	0	0	0	0	2	1	2
CO2	2	2	1	2	0	0	0	0	0	0	0	0	1	2	2
CO3	1	1	2	2	0	0	0	0	0	0	0	0	2	1	1
CO (AVG)	1.33	1.33	1.33	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	1.33	1.67
Technical Medicine Year of Study 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO2	2	1	1	2	1	0	0	0	0	0	0	0	1	2	1
CO3	1	2	2	1	2	0	0	0	0	0	0	0	2	1	2
CO4	2	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO5	1	1	2	2	2	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.40	1.20	1.80	1.40	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.40	1.20
Medical Microbiology Year of Study 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	0	0	0	0	0	0	0	0	2	1	2
CO2	2	2	1	2	0	0	0	0	0	0	0	0	1	2	1
CO3	1	2	1	2	0	0	0	0	0	0	0	0	1	2	2
CO4	2	1	2	1	0	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.50	1.50	1.25	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.75	1.75
Economics and Accounting Year of Study 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	0	1	1	1	0	1	1	1	2	2	2	2	1	0	1
CO2	0	1	1	1	0	1	1	1	2	1	2	2	0	0	1
CO3	0	1	2	1	0	1	1	1	2	2	2	1	1	0	0
CO4	0	1	1	1	0	1	1	1	2	2	1	2	0	0	1

CO5	0	1	1	2	0	1	1	2	1	2	2	2	1	0	0
CO6	0	1	1	1	0	1	1	1	2	2	2	2	2	1	0
CO (AVG)	0.00	1.00	1.17	1.17	0.00	1.00	1.00	1.17	1.83	1.83	1.83	1.83	0.67	0.00	0.67
Power Electronics Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	1	0	0	0	0	0	0	0	2	1	1
CO2	1	2	1	2	0	0	0	0	0	0	0	0	1	2	2
CO3	1	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO4	2	1	1	2	1	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.25	1.25	1.25	1.50	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.50	1.50
Signal System Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	2
CO2	1	2	1	2	1	0	0	0	0	0	0	0	1	1	2
CO3	1	1	2	2	1	0	0	0	0	0	0	0	2	1	1
CO4	2	2	1	2	1	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.25	1.50	1.25	1.75	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.75
Digital Electronics Lab Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	0	0	0	0	1	1	0	0	2	1	2
CO2	2	2	1	2	0	0	0	0	1	1	0	0	1	2	2
CO3	1	1	2	1	0	0	0	0	1	1	0	0	2	1	1
CO4	1	2	1	2	0	0	0	0	1	1	0	0	1	2	2
CO (AVG)	1.25	1.50	1.25	1.50	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.50	1.50	1.75
Measurement Lab Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	0	0	0	0	1	1	0	0	2	1	2
CO2	2	2	1	2	0	0	0	0	1	1	0	0	1	2	1
CO3	2	1	1	2	0	0	0	0	1	1	0	0	2	1	2
CO4	2	1	2	1	0	0	0	0	0	1	0	0	2	2	1
CO (AVG)	1.75	1.25	1.25	1.50	0.00	0.00	0.00	0.00	0.75	1.00	0.00	0.00	1.75	1.50	1.50
Electrical Machine-II Lab Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	2	1	1	0	0	0	1	1	0	0	2	1	1
CO2	2	1	1	2	1	0	0	0	1	1	0	0	1	2	1

CO3	1	2	1	1	2	0	0	0	0	1	0	0	2	1	2
CO4	2	1	2	1	1	0	0	0	1	0	0	0	1	1	1
CO (AVG)	1.50	1.25	1.50	1.25	1.25	0.00	0.00	0.00	0.75	0.75	0.00	0.00	1.50	1.25	1.25
Power Electronics Lab Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	1	0	0	0	1	1	0	0	2	1	1
CO2	1	2	1	2	0	0	0	0	1	1	0	0	1	2	2
CO3	1	1	2	1	1	0	0	0	1	1	0	0	1	1	1
CO4	2	1	1	2	1	0	0	0	1	1	0	0	1	2	2
CO5	1	1	2	1	1	0	0	0	1	0	0	0	1	1	1
CO (AVG)	1.20	1.20	1.40	1.40	0.80	0.00	0.00	0.00	1.00	0.80	0.00	0.00	1.20	1.40	1.40
V SEM															
Control System Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	1	3	0	0	0	0	0	0	0	1	2	1
CO2	2	2	1	2	1	0	0	0	0	0	0	0	2	2	1
CO3	1	2	2	1	2	0	0	0	0	0	0	0	2	1	2
CO4	2	1	2	1	3	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.75	1.50	1.75	1.25	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.75	1.25
Power System Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	2	0	0	0	0	0	0	0	1	2	1
CO2	2	2	1	2	1	0	0	0	0	0	0	0	2	2	1
CO3	2	1	2	2	1	0	0	0	0	0	0	0	2	1	2
CO4	2	1	2	1	1	0	0	0	0	0	0	0	1	2	1
CO (AVG)	2.00	1.25	1.75	1.75	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.75	1.25
Power System Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	2	0	0	0	0	0	0	0	1	2	1
CO2	1	2	1	1	1	0	0	0	0	0	0	0	2	1	1
CO3	1	1	2	2	1	0	0	0	0	0	0	0	1	1	2
CO4	2	1	2	1	1	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.33	1.33	1.67	1.67	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.33
Microprocessor Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3

CO1	1	2	2	1	3	0	0	0	0	0	0	0	2	1	2
CO2	2	1	2	1	3	0	0	0	0	0	0	0	2	2	1
CO3	2	2	1	2	2	0	0	0	0	0	0	0	2	1	1
CO4	2	2	2	1	3	0	0	0	0	0	0	0	2	1	2
CO (AVG)	1.75	1.75	1.75	1.25	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	1.25	1.50
Analog Communication: Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1	3	0	0	0	0	0	0	0	2	1	2
CO2	2	1	2	1	2	0	0	0	0	0	0	0	1	2	1
CO3	2	2	1	2	2	0	0	0	0	0	0	0	2	1	1
CO (AVG)	1.67	1.67	1.67	1.33	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	1.33	1.33
Introduction to VLSI of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	1	3	0	0	0	0	0	0	0	2	1	2
CO2	2	1	2	1	3	0	0	0	0	0	0	0	1	2	1
CO3	1	1	2	1	3	0	0	0	0	0	0	0	1	2	1
CO4	1	2	2	1	3	0	0	0	0	0	0	0	2	1	2
CO (AVG)	1.50	1.50	2.00	1.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.50	1.50
Control System Lab of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	1	2	0	0	0	0	0	0	0	2	1	2
CO2	2	2	1	2	1	0	0	0	1	1	0	0	2	2	1
CO3	2	1	2	1	2	0	0	0	0	0	0	0	1	2	1
CO4	2	2	1	2	1	0	0	0	1	1	0	0	2	2	1
CO5	2	1	2	1	3	0	0	0	1	0	0	0	1	2	1
CO6	2	1	2	1	3	0	0	0	1	0	0	0	1	2	1
CO (AVG)	1.83	1.50	1.67	1.33	2.00	0.00	0.00	0.00	0.67	0.33	0.00	0.00	1.50	1.83	1.17
Microprocessor Lab of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	2	0	0	0	1	1	0	0	3	2	2
CO2	3	2	2	2	3	0	0	0	0	1	0	0	2	2	3
CO3	2	2	1	2	3	0	0	0	1	0	0	0	3	2	2
CO (AVG)	2.33	2.00	1.33	2.00	2.67	0.00	0.00	0.00	0.67	0.67	0.00	0.00	2.67	2.00	2.33
Power System-I Lab of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3

CO1	2	1	2	2	2	0	0	0	0	0	0	0	1	2	1
CO2	3	2	1	2	1	0	0	0	0	0	0	0	2	2	1
CO3	2	1	2	2	2	0	0	0	0	0	0	0	2	1	2
CO4	3	2	2	1	2	0	0	0	0	0	0	0	1	2	1
CO5	2	2	2	2	2	0	0	0	0	0	0	0	2	1	2
CO6	2	1	2	1	1	0	0	0	0	0	0	0	1	2	1
CO (AVG)	2.33	1.50	1.83	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.67	1.33

Communication Lab of study: 2019-20

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	2	0	0	0	1	1	0	0	3	2	2
CO2	3	2	2	2	3	0	0	0	0	1	0	0	2	2	3
CO3	2	2	1	2	3	0	0	0	1	0	0	0	3	2	2
CO4	3	2	2	2	3	0	0	0	0	1	0	0	2	2	3
CO5	2	2	1	2	3	0	0	0	1	0	0	0	3	2	2
CO (AVG)	2.40	2.00	1.40	2.00	2.80	0.00	0.00	0.00	0.60	0.60	0.00	0.00	2.60	2.00	2.40

VISEM

Computer Architecture: IIS Year of study: 2019-20

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	3	3	0	0	0	0	0	0	0	2	2	3
CO2	3	2	2	3	2	0	0	0	0	0	0	0	3	2	3
CO3	2	1	2	2	3	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.33	1.67	2.00	2.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	2.00	2.67

Database Management System Year of study: 2019-20

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	3	1	0	0	0	0	0	0	0	2	2	3
CO2	1	2	3	2	2	0	0	0	0	0	0	0	1	2	3
CO3	2	1	2	2	3	0	0	0	0	0	0	0	2	1	2
CO (AVG)	1.67	1.67	2.33	2.33	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	1.67	2.67

Electronics Theory Year of study: 2019-20

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	2	2	0	0	0	0	0	0	0	2	1	2
CO2	2	2	1	2	3	0	0	0	0	0	0	0	1	2	2
CO3	2	2	1	2	1	0	0	0	0	0	0	0	2	2	1
CO4	1	2	2	1	2	0	0	0	0	0	0	0	1	1	2
CO5	2	1	2	1	3	0	0	0	0	0	0	0	2	2	1

CO (AVG)	1.60	1.80	1.60	1.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60
Power System Protection Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	2	2	0	0	0	0	0	0	0	2	1	2
CO2	2	2	1	1	2	0	0	0	0	0	0	0	1	2	2
CO3	1	1	1	2	1	0	0	0	0	0	0	0	2	2	1
CO4	2	2	2	1	2	0	0	0	0	0	0	0	2	1	2
CO5	2	1	2	1	3	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.60	1.60	1.60	1.40	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60
Power System Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	2	1	0	0	0	0	0	0	0	1	2	2
CO2	3	2	2	1	1	0	0	0	0	0	0	0	2	1	2
CO3	2	1	2	2	0	0	0	0	0	0	0	0	1	2	2
CO4	2	3	2	2	1	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.00	2.00	1.75	1.75	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.75	2.00
Smart Grid Technology Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	2	1	0	0	0	0	0	0	0	2	2	1
CO2	2	2	2	1	2	0	0	0	0	0	0	0	2	1	2
CO3	2	1	2	2	0	0	0	0	0	0	0	0	1	2	2
CO4	2	3	2	2	1	0	0	0	0	0	0	0	2	2	2
CO (AVG)	1.75	1.75	1.75	1.75	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.75	1.75	1.75
Electric Drive Lab Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	2	1	0	0	0	1	1	0	0	2	2	1
CO2	2	2	2	1	2	0	0	0	1	0	0	0	2	1	2
CO3	2	1	2	2	0	0	0	0	1	1	0	0	1	2	2
CO4	2	3	2	2	1	0	0	0	0	1	0	0	2	2	2
CO5	2	2	2	1	2	0	0	0	1	0	0	0	2	1	2
CO (AVG)	1.80	1.80	1.80	1.60	1.20	0.00	0.00	0.00	0.80	0.60	0.00	0.00	1.80	1.60	1.80
Modelling and simulation lab Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	2	1	0	0	0	1	1	0	0	2	2	1
CO2	2	3	2	1	2	0	0	0	1	0	0	0	2	1	2

CO3	1	1	2	2	0	0	0	0	1	1	0	0	1	1	2
CO4	2	3	2	2	1	0	0	0	0	1	0	0	2	2	2
CO (AVG)	1.50	2.00	1.75	1.75	1.00	0.00	0.00	0.00	0.75	0.75	0.00	0.00	1.75	1.50	1.75
Power System - II Lab Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	2	1	0	0	0	1	1	0	0	2	2	1
CO2	1	2	3	1	2	0	0	0	1	0	0	0	1	1	2
CO3	1	1	2	2	0	0	0	0	1	1	0	0	2	2	2
CO4	2	3	2	2	1	0	0	0	0	1	0	0	2	1	2
CO (AVG)	1.50	1.75	2.00	1.75	1.00	0.00	0.00	0.00	0.75	0.75	0.00	0.00	1.75	1.50	1.75
Power System Protection Lab Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	2	1	2	0	0	0	1	0	0	0	2	1	2
CO2	1	1	2	2	0	0	0	0	1	1	0	0	1	1	2
CO3	1	1	2	2	0	0	0	0	1	1	0	0	2	2	2
CO4	2	3	2	2	1	0	0	0	0	1	0	0	2	1	2
CO (AVG)	1.50	2.00	2.00	1.75	0.75	0.00	0.00	0.00	0.75	0.75	0.00	0.00	1.75	1.25	2.00
VII SEM															
Artificial Intelligence Techniques Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	2	2	0	0	0	0	0	0	0	2	2	1
CO2	1	2	1	2	2	0	0	0	0	0	0	0	1	2	2
CO3	2	2	1	2	2	0	0	0	0	0	0	0	2	1	2
CO4	2	2	2	2	2	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.75	2.00	1.75	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.75	1.75
Operating Systems Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO2	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO3	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO5	2	2	2	1	2	0	0	0	0	0	0	2	2	1	2
CO (AVG)	2.20	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.80	1.80	1.60
Non Conventional Energy Sources Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3

CO1	2	2	2	1	2	0	1	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	1	0	0	0	0	1	2	1	1
CO3	3	1	2	2	1	0	0	0	0	0	0	1	1	2	1
CO4	2	2	2	1	2	0	1	0	0	0	0	2	2	1	2
CO (AVG)	2.25	1.50	2.00	1.50	1.50	0.00	0.75	0.00	0.00	0.00	0.00	1.50	1.50	1.50	1.50
Power System Analysis Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO3	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO5	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.40	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.60	2.00	1.60
Power System Engineering Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO3	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO5	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.40	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.60	2.00	1.60
Power System Planning Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO2	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO3	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO (AVG)	2.25	1.25	2.00	1.75	1.25	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.75	2.00	1.50
Industrial Economics & Management Lab Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	0	1	0	2	2	1	2	2	1	2	2	2	1
CO2	1	1	0	0	1	2	2	1	3	2	3	1	2	1	1
CO3	1	0	0	1	1	1	2	1	2	1	3	2	2	2	1
CO4	0	1	0	1	0	2	3	2	2	2	1	2	1	2	1
CO5	1	1	1	1	1	2	2	1	2	2	3	1	2	1	1
CO6	1	0	0	1	1	2	2	1	2	2	3	2	2	2	1

CO (AVG)	0.83	0.67	0.17	0.83	0.67	1.83	2.17	1.17	2.17	1.83	2.33	1.67	1.83	1.67	1.00
Power System Modelling & Simulation Lab Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	3	1	0	0	0	1	0	0	2	2	2	1
CO2	2	2	2	2	1	0	0	0	1	1	0	1	2	2	2
CO3	3	2	2	3	2	0	0	0	1	0	0	2	1	3	2
CO4	2	1	2	2	1	0	0	0	0	1	0	1	2	2	3
CO5	3	2	1	1	2	0	0	0	1	0	0	2	1	2	2
CO6	2	1	2	3	1	0	0	0	0	1	0	1	2	2	2
CO (AVG)	2.33	1.67	1.83	2.33	1.33	0.00	0.00	0.00	0.67	0.50	0.00	1.50	1.67	2.17	2.00
Power System Planning Lab Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	1	1	0	1	2	2	1
CO2	3	2	2	1	2	0	0	0	1	1	0	2	1	2	1
CO3	2	1	2	2	1	0	0	0	1	1	0	2	2	2	2
CO4	2	1	1	2	1	0	0	0	0	0	0	1	2	2	2
CO5	2	3	2	1	2	0	0	0	1	2	0	2	1	2	2
CO6	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO (AVG)	2.17	1.50	1.83	1.67	1.33	0.00	0.00	0.00	0.67	0.83	0.00	1.50	1.67	2.00	1.67
III SEM															
Electric Drives and Their Control Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	3	1	0	0	0	0	0	0	2	2	3	1
CO2	2	1	2	2	3	0	0	0	0	0	0	3	2	2	2
CO3	3	2	2	3	2	0	0	0	0	0	0	2	1	3	2
CO4	2	3	2	2	1	0	0	0	0	0	0	1	2	2	3
CO5	3	2	1	1	2	0	0	0	0	0	0	2	2	2	2
CO (AVG)	2.40	2.00	1.80	2.20	1.80	0.00	0.00	0.00	0.00	0.00	0.00	2.00	1.80	2.40	2.00
IV SEM															
BMV/DC Trans Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	3	1
CO3	3	1	2	3	2	0	0	0	0	0	0	2	2	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	3
CO5	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.60	1.40	2.00	1.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	2.20	2.00
Protection of Power System Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	1	2	0	0	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	3	1

CO3	3	2	2	3	2	0	0	0	0	0	0	2	1	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	3
CO5	3	2	2	3	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.60	1.60	2.20	2.20	1.60	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.40	2.20	2.00
Utilization of Electrical Power Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	3	2	2	3
CO2	2	1	2	2	1	0	0	0	0	0	0	1	1	2	1
CO3	3	3	2	3	2	0	0	0	0	0	0	2	2	3	2
CO4	3	2	3	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.50	1.75	2.25	2.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	2.00	1.50	2.25	2.00
Computer Based Power System Lab Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	2	0	0	0	1	1	0	2	1	2	1
CO2	2	1	2	2	1	0	0	0	1	0	0	2	2	2	2
CO3	2	1	1	2	1	0	0	0	0	1	0	1	2	2	2
CO (AVG)	2.33	1.33	1.67	1.67	1.33	0.00	0.00	0.00	0.67	0.67	0.00	1.67	1.67	2.00	1.67
Electrical Drives and Control Lab Year of study: 2019-20															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	3	0	0	0	1	1	0	3	2	2	2
CO2	3	2	2	3	2	0	0	0	0	2	0	2	1	3	2
CO3	2	3	2	2	1	0	0	0	2	1	0	1	2	2	3
CO4	3	2	1	1	2	0	0	0	1	1	0	2	2	2	2
CO (AVG)	2.50	2.00	1.75	2.00	2.00	0.00	0.00	0.00	1.00	1.25	0.00	2.00	1.75	2.25	2.25

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Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	2	1	0	0	0	0	0	0	0	2	1	2
CO2	2	2	1	2	1	0	0	0	0	0	0	0	1	2	2
CO3	2	1	2	2	1	0	0	0	0	0	0	0	2	1	1
CO (AVG)	2.00	1.33	1.33	2.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	1.33	1.67

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	2	0	0	0	0	0	0	0	0	2	1	2
CO2	1	2	1	2	0	0	0	0	0	0	0	0	1	2	2
CO3	2	1	2	1	0	0	0	0	0	0	0	0	1	1	1
CO (AVG)	1.67	1.33	1.33	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	1.33	1.67

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	2	1	0	0	0	0	0	0	0	2	1	2
CO2	2	2	1	2	1	0	0	0	0	0	0	0	2	2	2
CO3	1	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO4	1	2	1	2	1	0	0	0	0	0	0	0	2	2	2
CO5	2	1	2	1	2	0	0	0	0	0	0	0	1	1	1
CO (AVG)	1.60	1.40	1.40	1.60	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.40	1.60

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO2	1	2	1	2	1	0	0	0	0	0	0	0	2	2	2
CO3	2	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO4	2	1	2	1	2	0	0	0	0	0	0	0	1	1	1
CO5	1	1	2	2	2	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.40	1.20	1.80	1.40	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.40	1.20

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	2	1	0	0	0	0	0	0	0	2	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	0	1	1	1
CO3	2	2	2	1	2	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.67	1.67	1.67	1.67	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	1.67	1.33

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	0	0	0	0	0	0	0	0	2	2	2
CO2	2	1	2	2	0	0	0	0	0	0	0	0	2	1	1
CO3	1	2	1	2	0	0	0	0	0	0	0	0	2	2	2
CO4	2	1	2	2	0	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.75	1.50	1.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.75	1.75	1.50
Electrical Communication Lab Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	0	0	0	0	0	0	0	0	2	2	2
CO2	2	1	2	2	0	0	0	0	0	0	0	0	2	1	1
CO3	1	2	1	2	0	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.67	1.67	1.33	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	1.67	1.67
Electrical Circuit Design Lab Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	1	2	1	0	0	0	1	1	0	0	2	1	2
CO2	1	2	1	2	1	0	0	0	1	1	0	0	2	2	2
CO3	2	1	2	1	1	0	0	0	1	1	0	0	1	1	1
CO4	1	1	2	2	1	0	0	0	0	1	0	0	2	2	2
CO5	2	2	2	2	2	0	0	0	1	0	0	0	1	1	1
CO (AVG)	1.60	1.40	1.60	1.80	1.20	0.00	0.00	0.00	0.80	0.80	0.00	0.00	1.60	1.40	1.60
Electrical Machine Lab Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	2	1	0	0	0	1	1	0	0	2	2	2
CO2	2	1	2	1	1	0	0	0	1	1	0	0	1	1	1
CO3	2	1	2	1	2	0	0	0	1	1	0	0	2	1	2
CO (AVG)	1.67	1.33	1.67	1.33	1.33	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.67	1.33	1.67
Analog Electronics Lab Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	2	1	0	0	0	0	1	0	0	2	1	2
CO2	2	2	1	2	1	0	0	0	1	1	0	0	1	2	2
CO3	1	1	2	2	1	0	0	0	1	1	0	0	2	1	1
CO4	2	2	1	2	1	0	0	0	1	0	0	0	1	2	2
CO5	1	2	1	2	1	0	0	0	1	1	0	0	2	1	1
CO (AVG)	1.40	1.80	1.20	2.00	1.00	0.00	0.00	0.00	0.80	0.80	0.00	0.00	1.60	1.40	1.60

Biology - Year of study 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	0	0	0	0	0	0	0	0	2	1	2
CO2	2	2	1	2	0	0	0	0	0	0	0	0	1	2	2
CO3	1	1	2	2	0	0	0	0	0	0	0	0	2	1	1
CO4	2	2	1	1	0	0	0	0	0	0	0	0	1	2	2
CO5	1	2	1	2	0	0	0	0	0	0	0	0	2	1	1
CO (AVG)	1.40	1.60	1.20	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.40	1.60
Biology - Year of study 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	0	0	0	0	0	0	0	0	2	1	2
CO2	2	2	1	2	0	0	0	0	0	0	0	0	1	2	2
CO3	1	1	2	2	0	0	0	0	0	0	0	0	2	1	1
CO (AVG)	1.33	1.33	1.33	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	1.33	1.67
Electrical Machines - I Year of study 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO2	2	1	1	2	1	0	0	0	0	0	0	0	1	2	1
CO3	1	2	2	1	2	0	0	0	0	0	0	0	2	1	2
CO4	2	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO5	1	1	2	2	2	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.40	1.20	1.80	1.40	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.40	1.20
Electrical Machines - I Year of study 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	0	0	0	0	0	0	0	0	2	1	2
CO2	2	2	1	2	0	0	0	0	0	0	0	0	1	2	1
CO3	1	2	1	2	0	0	0	0	0	0	0	0	1	2	2
CO4	2	1	2	1	0	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.50	1.50	1.25	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.75	1.75
Electrical Machines - I Year of study 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	0	1	1	1	0	1	1	1	2	2	2	2	1	0	1
CO2	0	1	1	1	0	1	1	1	2	1	2	2	0	0	1
CO3	0	1	2	1	0	1	1	1	2	2	2	1	1	0	0
CO4	0	1	1	1	0	1	1	1	2	2	1	2	0	0	1

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CO5	0	1	1	2	0	1	1	2	1	2	2	2	1	0	0	
CO6	0	1	1	1	0	1	1	1	2	2	2	2	2	1	0	1
CO (AVG)	0.00	1.00	1.17	1.17	0.00	1.00	1.00	1.17	1.83	1.83	1.83	1.83	1.83	0.67	0.00	0.67
Power Electronics Year of study: 2018-19																
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	1	1	1	1	1	0	0	0	0	0	0	0	2	1	1	
CO2	1	2	1	2	0	0	0	0	0	0	0	0	1	2	2	
CO3	1	1	2	1	1	0	0	0	0	0	0	0	1	1	1	
CO4	2	1	1	2	1	0	0	0	0	0	0	0	1	2	2	
CO (AVG)	1.25	1.25	1.25	1.50	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.50	1.50	
Signal System Year of study: 2018-19																
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	2	
CO2	1	2	1	2	1	0	0	0	0	0	0	0	1	1	2	
CO3	1	1	2	2	1	0	0	0	0	0	0	0	2	1	1	
CO4	2	2	1	2	1	0	0	0	0	0	0	0	1	2	2	
CO (AVG)	1.25	1.50	1.25	1.75	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.25	1.75	
Digital Electronics Lab Year of study: 2018-19																
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	1	1	1	1	0	0	0	0	1	1	0	0	2	1	2	
CO2	2	2	1	2	0	0	0	0	1	1	0	0	1	2	2	
CO3	1	1	2	1	0	0	0	0	1	1	0	0	2	1	1	
CO4	1	2	1	2	0	0	0	0	1	1	0	0	1	2	2	
CO (AVG)	1.25	1.50	1.25	1.50	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	1.50	1.50	1.75	
Measurement Lab Year of study: 2018-19																
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	1	1	1	1	0	0	0	0	1	1	0	0	2	1	2	
CO2	2	2	1	2	0	0	0	0	1	1	0	0	1	2	1	
CO3	2	1	1	2	0	0	0	0	1	1	0	0	2	1	2	
CO4	2	1	2	1	0	0	0	0	0	1	0	0	2	2	1	
CO (AVG)	1.75	1.25	1.25	1.50	0.00	0.00	0.00	0.00	0.75	1.00	0.00	0.00	1.75	1.50	1.50	
Electrical Machine-II Lab Year of study: 2018-19																
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	1	1	2	1	1	0	0	0	1	1	0	0	2	1	1	
CO2	2	1	1	2	1	0	0	0	1	1	0	0	1	2	1	

CO3	1	2	1	1	2	0	0	0	0	1	0	0	2	1	2
CO4	2	1	2	1	1	0	0	0	1	0	0	0	1	1	1
CO (AVG)	1.50	1.25	1.50	1.25	1.25	0.00	0.00	0.00	0.75	0.75	0.00	0.00	1.50	1.25	1.25
Power Electronics Lab Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	1	0	0	0	1	1	0	0	2	1	1
CO2	1	2	1	2	0	0	0	0	1	1	0	0	1	2	2
CO3	1	1	2	1	1	0	0	0	1	1	0	0	1	1	1
CO4	2	1	1	2	1	0	0	0	1	1	0	0	1	2	2
CO5	1	1	2	1	1	0	0	0	1	0	0	0	1	1	1
CO (AVG)	1.20	1.20	1.40	1.40	0.80	0.00	0.00	0.00	1.00	0.80	0.00	0.00	1.20	1.40	1.40
SEVEN															
Power Electronics Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	0	0	0	0	0	0	0	3	2	2
CO2	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO4	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO (AVG)	2.50	2.50	2.75	2.25	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50
Control System Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO4	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO (AVG)	2.50	2.50	2.75	2.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	2.50	2.75
Data Base Management System Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO (AVG)	2.33	2.67	2.67	2.33	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	2.67	2.67
ANALOG COMMUNICATION Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	0	0	0	0	0	0	0	2	3	2

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CO2	3	2	3	2	2	0	0	0	0	0	0	0	2	1	2
CO3	2	2	2	2	1	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.67	2.00	2.33	2.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	2.00
Transmission & Distribution of Electrical Power Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO2	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO4	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO5	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO (AVG)	2.60	2.40	2.80	2.60	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	2.40	2.80
Introduction to VLSI of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	3	0	0	0	0	1	0	0	2	2	3
CO2	3	2	3	3	2	0	0	0	1	0	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	1	1	0	0	3	3	2
CO4	3	2	3	3	3	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.75	2.25	2.75	2.75	2.75	0.00	0.00	0.00	0.50	0.50	0.00	0.00	2.25	2.25	2.75
DBMS Lab of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	2	3	0	0	0	1	0	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	0	1	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO4	3	2	3	3	2	0	0	0	1	1	0	0	2	2	3
CO (AVG)	2.50	2.50	2.75	2.50	2.50	0.00	0.00	0.00	0.50	0.50	0.00	0.00	2.25	2.50	2.75
Communication Lab of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	3	0	0	0	0	1	0	0	2	2	3
CO2	3	2	3	3	2	0	0	0	1	0	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	1	1	0	0	3	3	2
CO4	3	2	3	3	2	0	0	0	1	1	0	0	2	2	3
CO5	2	3	2	2	3	0	0	0	0	1	0	0	3	3	2
CO (AVG)	2.67	2.33	2.67	2.67	2.67	0.00	0.00	0.00	0.67	0.67	0.00	0.00	2.33	2.33	2.67
Power Electronics Lab of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3

CO1	2	3	3	2	3	0	0	0	0	1	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	1	1	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	0	1	0	0	3	3	2
CO4	3	2	3	3	2	0	0	0	1	0	0	0	2	2	3
CO (AVG)	2.50	2.50	2.75	2.50	2.50	0.00	0.00	0.00	0.50	0.75	0.00	0.00	2.25	2.50	2.75

System programing Lab of study: 2018-19

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	1	1	1	0	0	1	2	1
CO2	2	3	2	2	3	0	0	1	1	0	0	0	2	1	2
CO3	3	1	2	3	3	0	0	0	0	1	0	0	2	3	1
CO (AVG)	2.67	2.00	2.33	2.67	2.67	0.00	0.00	0.67	0.67	0.67	0.00	0.00	1.67	2.00	1.33

PROFESSIONAL ETHICS AND DISASTERS MANAGEMENT Lab of study: 2018-19

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	0	1	1	0	0	3	2	3
CO2	2	3	2	2	3	0	0	0	1	0	0	0	3	3	2
CO (AVG)	2.50	2.50	2.50	2.50	2.50	0.00	0.00	0.00	1.00	0.50	0.00	0.00	3.00	2.50	2.50

VLSI

MicroProcessor & Microcontroller Year of study: 2018-19

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	2	0	0	0	0	0	0	0	3	2	2
CO2	3	2	2	2	3	0	0	0	0	0	0	0	2	2	3
CO3	2	2	1	2	3	0	0	0	0	0	0	0	3	2	2
CO4	3	2	2	2	3	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.50	2.00	1.50	2.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	2.00	2.50

Advance Power Electronic Year of study: 2018-19

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO2	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.67	2.33	2.67	2.67	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	2.33	2.67

Neural Network Year of study: 2018-19

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	1	2	2
CO3	1	1	2	1	1	0	0	0	0	0	0	0	1	1	1

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CO4	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO (AVG)	1.50	1.75	1.75	1.75	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.25	1.75
Modern Control Theory Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	2	0	0	0	0	0	0	0	1	2	2
CO2	1	2	2	1	2	0	0	0	0	0	0	0	2	2	1
CO3	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO4	2	2	3	1	2	0	0	0	0	0	0	0	1	2	1
CO5	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO (AVG)	1.80	2.00	1.80	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60
Switchgear & Protection Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO2	2	2	2	2	2	0	0	0	0	0	0	0	1	2	2
CO3	1	2	2	1	2	0	0	0	0	0	0	0	2	2	1
CO4	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO5	2	2	3	1	2	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.80	2.00	1.80	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60
Small Grid Technology Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	2	2	0	0	0	0	0	0	0	1	2	1
CO2	2	2	1	2	2	0	0	0	0	0	0	0	2	2	2
CO3	2	2	3	2	2	0	0	0	0	0	0	0	1	2	1
CO4	2	2	1	2	2	0	0	0	0	0	0	0	2	2	2
CO (AVG)	1.75	2.00	1.75	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	2.00	1.50
Advanced Power Electronics Lab Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	1	2	0	0	0	0	0	0	0	2	2	2
CO2	2	2	2	2	3	0	0	0	1	1	0	0	2	3	2
CO3	2	2	3	1	2	0	0	0	0	1	0	0	2	2	3
CO4	2	3	2	2	1	0	0	0	1	1	0	0	2	3	2
CO5	2	2	1	3	2	0	0	0	1	1	0	0	2	2	3
CO6	2	1	2	2	3	0	0	0	0	1	0	0	3	2	2
CO7	3	2	3	2	2	0	0	0	1	0	0	0	2	2	3
CO (AVG)	2.29	2.00	2.29	1.86	2.14	0.00	0.00	0.00	0.57	0.71	0.00	0.00	2.14	2.29	2.43

Entrepreneurship Development Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	0	2	2	2	3	2	2	1	1	0	0
CO2	2	2	2	1	0	2	2	2	3	2	2	3	1	0	0
CO3	1	2	2	2	0	2	1	2	2	2	3	2	1	0	0
CO4	2	1	2	2	0	1	2	2	1	2	2	2	1	0	0
CO (AVG)	1.75	1.75	2.00	1.75	0.00	1.75	1.75	2.00	2.25	2.00	2.25	2.00	1.00	0.00	0.00

Power System Lab Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	3	0	0	0	1	1	0	0	2	3	2
CO2	2	2	3	1	2	0	0	0	0	1	0	0	2	2	3
CO3	2	3	2	2	1	0	0	0	1	1	0	0	2	3	2
CO4	2	2	1	3	2	0	0	0	1	1	0	0	2	2	3
CO (AVG)	2.00	2.25	2.00	2.00	2.00	0.00	0.00	0.00	0.75	1.00	0.00	0.00	2.00	2.50	2.50

Control System Lab Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	2	0	0	0	1	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	1	0	0	1	2	1
CO3	2	2	1	2	2	0	0	0	1	0	0	0	2	2	2
CO4	1	2	2	2	2	0	0	0	1	1	0	0	1	2	1
CO (AVG)	1.75	2.00	1.75	2.00	2.00	0.00	0.00	0.00	0.75	0.50	0.00	0.00	1.50	2.00	1.50

MicroProcessor & Microcontroller Lab Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	3	2	0	0	0	1	1	0	0	2	2	3
CO2	2	2	3	1	2	0	0	0	0	1	0	0	2	2	3
CO3	2	3	2	2	1	0	0	0	1	1	0	0	2	3	2
CO (AVG)	2.00	2.33	2.00	2.00	1.67	0.00	0.00	0.00	0.67	1.00	0.00	0.00	2.00	2.33	2.67

Artificial Intelligence Techniques Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	2	2	0	0	0	0	0	0	0	2	2	1
CO2	1	2	1	2	2	0	0	0	0	0	0	0	1	2	2
CO3	2	2	1	2	2	0	0	0	0	0	0	0	2	1	2
CO4	2	2	2	2	2	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.75	2.00	1.75	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.75	1.75

Operating Systems Year of study: 2018-19															
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 HOD, Department of Computer Science and Engineering
 Anna University, Chennai

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO2	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO3	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO5	2	2	2	1	2	0	0	0	0	0	0	2	2	1	2
CO (AVG)	2.20	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.80	1.80	1.60
Non-Conventional Energy Sources Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	1	2	0	1	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	1	0	0	0	0	1	2	1	1
CO3	3	1	2	2	1	0	0	0	0	0	0	1	1	2	1
CO4	2	2	2	1	2	0	1	0	0	0	0	2	2	1	2
CO (AVG)	2.25	1.50	2.00	1.50	1.50	0.00	0.75	0.00	0.00	0.00	0.00	1.50	1.50	1.50	1.50
Power System Analysis Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO3	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO5	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.40	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.60	2.00	1.60
Power System Planning Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO3	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO5	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.40	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.60	2.00	1.60
Power System Protection Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO2	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO3	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2

CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO (AVG)	2.25	1.25	2.00	1.75	1.25	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.75	2.00	1.50
Industrial Economics & Management Lab Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	0	1	0	2	2	1	2	2	1	2	2	2	1
CO2	1	1	0	0	1	2	2	1	3	2	3	1	2	1	1
CO3	1	0	0	1	1	1	2	1	2	1	3	2	2	2	1
CO4	0	1	0	1	0	2	3	2	2	2	1	2	1	2	1
CO5	1	1	1	1	1	2	2	1	2	2	3	1	2	1	1
CO6	1	0	0	1	1	2	2	1	2	2	3	2	2	2	1
CO (AVG)	0.83	0.67	0.17	0.83	0.67	1.83	2.17	1.17	2.17	1.83	2.33	1.67	1.83	1.67	1.00
Power System Modelling & Simulation Lab Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	3	1	0	0	0	1	0	0	2	2	2	1
CO2	2	2	2	2	1	0	0	0	1	1	0	1	2	2	2
CO3	3	2	2	3	2	0	0	0	1	0	0	2	1	3	2
CO4	2	1	2	2	1	0	0	0	0	1	0	1	2	2	3
CO5	3	2	1	1	2	0	0	0	1	0	0	2	1	2	2
CO6	2	1	2	3	1	0	0	0	0	1	0	1	2	2	2
CO (AVG)	2.33	1.67	1.83	2.33	1.33	0.00	0.00	0.00	0.67	0.50	0.00	1.50	1.67	2.17	2.00
Power System Planning Lab Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	1	1	0	1	2	2	1
CO2	3	2	2	1	2	0	0	0	1	1	0	2	1	2	1
CO3	2	1	2	2	1	0	0	0	1	1	0	2	2	2	2
CO4	2	1	1	2	1	0	0	0	0	0	0	1	2	2	2
CO5	2	3	2	1	2	0	0	0	1	2	0	2	1	2	2
CO6	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO (AVG)	2.17	1.50	1.83	1.67	1.33	0.00	0.00	0.00	0.67	0.83	0.00	1.50	1.67	2.00	1.67
Electric Drives and Their Control Year of study: 2018-19															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	3	1	0	0	0	0	0	0	2	2	3	1
CO2	2	1	2	2	3	0	0	0	0	0	0	3	2	2	2
CO3	3	2	2	3	2	0	0	0	0	0	0	2	1	3	2
CO4	2	3	2	2	1	0	0	0	0	0	0	1	2	2	3
CO5	3	2	1	1	2	0	0	0	0	0	0	2	2	2	2
CO (AVG)	2.40	2.00	1.80	2.20	1.80	0.00	0.00	0.00	0.00	0.00	0.00	2.00	1.80	2.40	2.00
PLM / AG / IC / Energy / Soft Year of study: 2018-19															

Signature of the Head of Department
Date: _____

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	3	1
CO3	3	1	2	3	2	0	0	0	0	0	0	2	2	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	3
CO5	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.60	1.40	2.00	1.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	2.20	2.00
Distribution of Power System (Year of study: 2018-19)															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	1	2	0	0	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	3	1
CO3	3	2	2	3	2	0	0	0	0	0	0	2	1	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	3
CO5	3	2	2	3	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.60	1.60	2.20	2.20	1.60	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.40	2.20	2.00
Utilization of Electrical Power (Year of study: 2018-19)															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	3	2	2	3
CO2	2	1	2	2	1	0	0	0	0	0	0	1	1	2	1
CO3	3	3	2	3	2	0	0	0	0	0	0	2	2	3	2
CO4	3	2	3	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.50	1.75	2.25	2.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	2.00	1.50	2.25	2.00
Computer Based Power System Lab (Year of study: 2018-19)															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	2	0	0	0	1	1	0	2	1	2	1
CO2	2	1	2	2	1	0	0	0	1	0	0	2	2	2	2
CO3	2	1	1	2	1	0	0	0	0	1	0	1	2	2	2
CO (AVG)	2.33	1.33	1.67	1.67	1.33	0.00	0.00	0.00	0.67	0.67	0.00	1.67	1.67	2.00	1.67
Electrical Drives and Control Lab (Year of study: 2018-19)															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	3	0	0	0	1	1	0	3	2	2	2
CO2	3	2	2	3	2	0	0	0	0	2	0	2	1	3	2
CO3	2	3	2	2	1	0	0	0	2	1	0	1	2	2	3
CO4	3	2	1	1	2	0	0	0	1	1	0	2	2	2	2
CO (AVG)	2.50	2.00	1.75	2.00	2.00	0.00	0.00	0.00	1.00	1.25	0.00	2.00	1.75	2.25	2.25

Mathematics - Year of Study 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2
CO2	2	2	2	2	2	2	2	2	2	0	0	0	2	2	2
CO3	2	2	2	3	2	0	0	0	0	0	0	0	1	2	1
CO4	2	1	1	2	1	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.50	1.25	1.25	1.75	1.25	0.50	0.50	0.50	0.50	0.00	0.00	0.00	1.50	1.75	1.75
Circuit Analysis - Year of Study 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	3	2	2	0	0	0	0	0	0	0	2	2	2
CO2	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO3	2	2	3	3	2	0	0	0	0	0	0	0	1	2	3
CO4	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO5	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO (AVG)	2.40	2.20	2.40	1.80	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.20	2.40
Digital Electronics - Year of Study 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	1	2	2	0	0	0	0	0	0	0	3	2	2
CO (AVG)	0.00	2.33	2.00	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	2.00	2.33
Agronomy, Drones & GIS Year of Study 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO4	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO5	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO6	3	2	1	2	2	0	0	0	0	0	0	0	3	2	2
CO (AVG)	2.40	2.40	2.40	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.60
Electrical Machines - Year of Study 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3

CO3	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO4	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO5	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.40	2.40	2.40	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.60
Object Oriented Programmings Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO2	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO3	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO4	3	2	1	2	2	0	0	0	0	0	0	0	3	2	2
CO (AVG)	2.50	2.25	2.25	1.75	1.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	2.00	2.50
C++ Programming Lab Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	3	2	2	0	0	0	0	0	0	0	3	1	2
CO2	3	3	2	1	3	0	0	0	1	0	0	0	1	1	2
CO3	2	2	3	3	3	0	0	0	0	0	0	0	2	1	3
CO4	3	2	1	2	3	0	0	0	1	0	0	0	2	0	2
CO (AVG)	2.50	2.00	2.25	2.00	2.75	0.00	0.00	0.00	0.50	0.00	0.00	0.00	2.00	0.75	2.25
Digital Electronics Lab Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	3	0	0	0	1	0	0	0	2	2	2
CO2	2	2	3	3	2	0	0	0	0	1	0	0	3	2	3
CO (AVG)	2.50	2.50	2.50	2.00	2.50	0.00	0.00	0.00	0.50	0.50	0.00	0.00	2.50	2.00	2.50
Electronic Devices Lab Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	3	2	0	0	0	0	0	0	0	3	2	3
CO2	3	2	1	2	3	0	0	0	1	1	0	0	3	2	3
CO3	3	3	2	1	1	0	0	0	1	1	0	0	2	2	2
CO4	2	2	3	2	2	0	0	0	1	1	0	0	2	2	3
CO5	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO (AVG)	2.60	2.20	2.00	2.00	1.80	0.00	0.00	0.00	0.60	0.60	0.00	0.00	2.60	2.00	2.60
Humanities & Social Sciences Lab Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1.00	0.00	0.00	1.00	0.00	2.00	2.00	1.00	2.00	2.00	2.00	1.00	1.00	2.00	0.00
CO (AVG)	1.00	0.00	0.00	1.00	0.00	2.00	2.00	1.00	2.00	2.00	2.00	1.00	1.00	2.00	0.00

Circuit Analysis Lab Lab Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	3	2	2	0	0	0	1	0	0	0	3	2	3
CO2	3	3	2	1	3	0	0	0	1	1	0	0	2	2	2
CO3	2	2	3	3	2	0	0	0	0	1	0	0	3	2	3
CO4	3	2	1	2	3	0	0	0	1	0	0	0	3	2	3
CO5	2	3	3	1	1	0	0	0	0	1	0	0	2	3	3
CO (AVG)	2.00	3.00	3.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.00	3.00	3.00

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Analog Electronics Lab Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO2	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO3	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO4	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO5	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.40	2.40	2.40	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.60

Advanced Engineering Mathematics - II Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	2	3	2	0	0	0	0	0	0	0	1	2	1
CO3	2	1	1	2	1	0	0	0	0	0	0	0	1	2	2
CO4	2	1	2	2	2	0	0	0	0	0	0	0	2	1	2
CO (AVG)	2.00	1.75	1.75	2.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.75	1.75

Electrical Engineering Materials Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	3	2	0	0	0	0	0	0	0	1	2	3
CO3	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO4	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO5	2	1	3	2	2	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.40	2.20	2.40	1.80	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.20	2.40

Electrical Machines - I Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
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CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO4	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO5	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO (AVG)	2.60	2.40	2.00	1.60	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	2.20	2.40

Electrical Measurements Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO2	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO3	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO4	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.75	2.75	2.00	1.25	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25

Linear Integrated Circuit Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	3	2	0	0	0	0	0	0	0	1	2	3
CO2	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO3	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO4	2	1	3	2	2	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.25	2.00	2.50	2.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.25	2.50

Analog Electronics Lab Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	2	1	0	0	0	1	0	0	0	3	2	2
CO2	2	3	3	1	1	0	0	0	1	0	0	0	2	3	3
CO3	3	3	2	1	1	0	0	0	1	0	0	0	2	2	2
CO (AVG)	2.67	2.67	2.00	1.33	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	2.33	2.33	2.33

Electrical Machine Lab Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	2	2	0	0	0	1	1	0	0	2	2	3
CO2	3	2	1	2	1	0	0	0	1	0	0	0	3	2	2
CO3	3	2	1	2	1	0	0	0	1	1	0	0	3	2	2
CO4	2	3	3	1	1	0	0	0	0	1	0	0	2	3	3
CO (AVG)	2.50	2.25	2.00	1.75	1.25	0.00	0.00	0.00	0.75	0.75	0.00	0.00	2.50	2.25	2.50

Electrical Machine Design Lab Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
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CO1	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO2	3	2	1	2	1	0	0	0	1	0	0	0	3	2	2
CO3	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO4	3	2	1	2	1	0	0	0	1	0	0	0	3	2	2
CO (AVG)	2.75	2.00	1.50	2.00	1.25	0.00	0.00	0.00	0.50	0.00	0.00	0.00	2.75	2.00	2.25

Electrical Measurement Lab Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO2	2	2	2	2	2	0	0	0	1	1	0	0	2	2	3
CO3	2	2	1	2	1	0	0	0	1	1	0	0	3	2	2
CO4	3	2	1	2	1	0	0	0	1	1	0	0	3	2	2
CO5	2	3	2	1	1	0	0	0	0	0	0	0	2	3	3
CO (AVG)	2.20	2.20	1.40	1.80	1.20	0.00	0.00	0.00	0.60	0.60	0.00	0.00	2.60	2.20	2.40

Linear Integrated Circuit Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	3	2	0	0	0	1	1	0	0	1	2	3
CO2	3	2	1	2	1	0	0	0	0	1	0	0	3	2	2
CO3	2	3	3	1	1	0	0	0	1	0	0	0	2	3	3
CO4	2	1	3	2	2	0	0	0	1	1	0	0	2	2	2
CO (AVG)	2.25	2.00	2.50	2.00	1.50	0.00	0.00	0.00	0.75	0.75	0.00	0.00	2.00	2.25	2.50

VSEM

Power Electronics Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	0	0	0	0	0	0	0	3	2	2
CO2	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO4	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO (AVG)	2.50	2.50	2.75	2.25	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50

Control System Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO4	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2

CO (AVG)	2.50	2.50	2.75	2.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	2.50	2.75
Data Base Management System Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO (AVG)	2.33	2.67	2.67	2.33	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	2.67	2.67
Analogy communication of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	0	0	0	0	0	0	0	2	3	2
CO2	3	2	3	2	2	0	0	0	0	0	0	0	2	1	2
CO3	2	2	2	2	1	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.67	2.00	2.33	2.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	2.00
transmission & Distribution of Electrical Power Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO2	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO4	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO5	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO (AVG)	2.60	2.40	2.80	2.60	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	2.40	2.80
Introduction to VLSI of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	3	0	0	0	0	1	0	0	2	2	3
CO2	3	2	3	3	2	0	0	0	1	0	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	1	1	0	0	3	3	2
CO4	3	2	3	3	3	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.75	2.25	2.75	2.75	2.75	0.00	0.00	0.00	0.50	0.50	0.00	0.00	2.25	2.25	2.75
DBMS Lab of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	2	3	0	0	0	1	0	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	0	1	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO4	3	2	3	3	2	0	0	0	1	1	0	0	2	2	3
CO (AVG)	2.50	2.50	2.75	2.50	2.50	0.00	0.00	0.00	0.50	0.50	0.00	0.00	2.25	2.50	2.75
Communication Lab of study: 2017-18															

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	3	0	0	0	0	1	0	0	2	2	3
CO2	3	2	3	3	2	0	0	0	1	0	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	1	1	0	0	3	3	2
CO4	3	2	3	3	2	0	0	0	1	1	0	0	2	2	3
CO5	2	3	2	2	3	0	0	0	0	1	0	0	3	3	2
CO (AVG)	2.67	2.33	2.67	2.67	2.67	0.00	0.00	0.00	0.67	0.67	0.00	0.00	2.33	2.33	2.67

Power Electronics Lab of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	2	3	0	0	0	0	1	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	1	1	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	0	1	0	0	3	3	2
CO4	3	2	3	3	2	0	0	0	1	0	0	0	2	2	3
CO (AVG)	2.50	2.50	2.75	2.50	2.50	0.00	0.00	0.00	0.50	0.75	0.00	0.00	2.25	2.50	2.75

System programming Lab of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	1	1	1	0	0	1	2	1
CO2	2	3	2	2	3	0	0	1	1	0	0	0	2	1	2
CO3	3	1	2	3	3	0	0	0	0	1	0	0	2	3	1
CO (AVG)	2.67	2.00	2.33	2.67	2.67	0.00	0.00	0.67	0.67	0.67	0.00	0.00	1.67	2.00	1.33

PROFESSIONAL ETHICS AND DISASTERS MANAGEMENT Lab of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	0	1	1	0	0	3	2	3
CO2	2	3	2	2	3	0	0	0	1	0	0	0	3	3	2
CO (AVG)	2.50	2.50	2.50	2.50	2.50	0.00	0.00	0.00	1.00	0.50	0.00	0.00	3.00	2.50	2.50

Microprocessor & Microcontroller Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	2	0	0	0	0	0	0	0	3	2	2
CO2	3	2	2	2	3	0	0	0	0	0	0	0	2	2	3
CO3	2	2	1	2	3	0	0	0	0	0	0	0	3	2	2
CO4	3	2	2	2	3	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.50	2.00	1.50	2.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	2.00	2.50

Advanced Power Electronics Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3

CO2	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.67	2.33	2.67	2.67	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	2.33	2.67
Neural Network (Year of study: 2017-18)															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	1	2	2
CO3	1	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO4	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO (AVG)	1.50	1.75	1.75	1.75	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.25	1.75
Modern Control Theory (Year of study: 2017-18)															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	2	0	0	0	0	0	0	0	1	2	2
CO2	1	2	2	1	2	0	0	0	0	0	0	0	2	2	1
CO3	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO4	2	2	3	1	2	0	0	0	0	0	0	0	1	2	1
CO5	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO (AVG)	1.80	2.00	1.80	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60
Switchgear & Protection (Year of study: 2017-18)															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO2	2	2	2	2	2	0	0	0	0	0	0	0	1	2	2
CO3	1	2	2	1	2	0	0	0	0	0	0	0	2	2	1
CO4	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO5	2	2	3	1	2	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.80	2.00	1.80	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60
Smart Grid Technology (Year of study: 2017-18)															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	2	2	0	0	0	0	0	0	0	1	2	1
CO2	2	2	1	2	2	0	0	0	0	0	0	0	2	2	2
CO3	2	2	3	2	2	0	0	0	0	0	0	0	1	2	1
CO4	2	2	1	2	2	0	0	0	0	0	0	0	2	2	2
CO (AVG)	1.75	2.00	1.75	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	2.00	1.50
Advanced Power Electronics Lab (Year of study: 2017-18)															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3

CO1	3	2	3	1	2	0	0	0	0	0	0	0	2	2	2
CO2	2	2	2	2	3	0	0	0	1	1	0	0	2	3	2
CO3	2	2	3	1	2	0	0	0	0	1	0	0	2	2	3
CO4	2	3	2	2	1	0	0	0	1	1	0	0	2	3	2
CO5	2	2	1	3	2	0	0	0	1	1	0	0	2	2	3
CO6	2	1	2	2	3	0	0	0	0	1	0	0	3	2	2
CO7	3	2	3	2	2	0	0	0	1	0	0	0	2	2	3
CO (AVG)	2.29	2.00	2.29	1.86	2.14	0.00	0.00	0.00	0.57	0.71	0.00	0.00	2.14	2.29	2.43
Entrepreneurship Development Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	0	2	2	2	3	2	2	1	1	0	0
CO2	2	2	2	1	0	2	2	2	3	2	2	3	1	0	0
CO3	1	2	2	2	0	2	1	2	2	2	3	2	1	0	0
CO4	2	1	2	2	0	1	2	2	1	2	2	2	1	0	0
CO (AVG)	1.75	1.75	2.00	1.75	0.00	1.75	1.75	2.00	2.25	2.00	2.25	2.00	1.00	0.00	0.00
Power System Lab Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	3	0	0	0	1	1	0	0	2	3	2
CO2	2	2	3	1	2	0	0	0	0	1	0	0	2	2	3
CO3	2	3	2	2	1	0	0	0	1	1	0	0	2	3	2
CO4	2	2	1	3	2	0	0	0	1	1	0	0	2	2	3
CO (AVG)	2.00	2.25	2.00	2.00	2.00	0.00	0.00	0.00	0.75	1.00	0.00	0.00	2.00	2.50	2.50
Control System Lab Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	2	0	0	0	1	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	1	0	0	1	2	1
CO3	2	2	1	2	2	0	0	0	1	0	0	0	2	2	2
CO4	1	2	2	2	2	0	0	0	1	1	0	0	1	2	1
CO (AVG)	1.75	2.00	1.75	2.00	2.00	0.00	0.00	0.00	0.75	0.50	0.00	0.00	1.50	2.00	1.50
MicroProcessor & Microcontroller Lab Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	3	2	0	0	0	1	1	0	0	2	2	3
CO2	2	2	3	1	2	0	0	0	0	1	0	0	2	2	3
CO3	2	3	2	2	1	0	0	0	1	1	0	0	2	3	2
CO (AVG)	2.00	2.33	2.00	2.00	1.67	0.00	0.00	0.00	0.67	1.00	0.00	0.00	2.00	2.33	2.67

VII SEM

Artificial Intelligence Techniques Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C01	2	2	3	2	2	0	0	0	0	0	0	0	2	2	1
C02	1	2	1	2	2	0	0	0	0	0	0	0	1	2	2
C03	2	2	1	2	2	0	0	0	0	0	0	0	2	1	2
C04	2	2	2	2	2	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.75	2.00	1.75	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.75	1.75

Operating Systems Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C01	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
C02	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
C03	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
C04	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
C05	2	2	2	1	2	0	0	0	0	0	0	2	2	1	2
CO (AVG)	2.20	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.80	1.80	1.60

Non Conventional Energy Sources Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C01	2	2	2	1	2	0	1	0	0	0	0	2	1	2	2
C02	2	1	2	2	1	0	1	0	0	0	0	1	2	1	1
C03	3	1	2	2	1	0	0	0	0	0	0	1	1	2	1
C04	2	2	2	1	2	0	1	0	0	0	0	2	2	1	2
CO (AVG)	2.25	1.50	2.00	1.50	1.50	0.00	0.75	0.00	0.00	0.00	0.00	1.50	1.50	1.50	1.50

Power System Analysis Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C01	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
C02	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
C03	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
C04	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
C05	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.40	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.60	2.00	1.60

Power System Engineering Year of study: 2017-18

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C01	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
C02	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
C03	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2

CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO5	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.40	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.60	2.00	1.60
Power System Planning Lab Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO2	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO3	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO (AVG)	2.25	1.25	2.00	1.75	1.25	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.75	2.00	1.50
Industrial Economics & Management Lab Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	0	1	0	2	2	1	2	2	1	2	2	2	1
CO2	1	1	0	0	1	2	2	1	3	2	3	1	2	1	1
CO3	1	0	0	1	1	1	2	1	2	1	3	2	2	2	1
CO4	0	1	0	1	0	2	3	2	2	2	1	2	1	2	1
CO5	1	1	1	1	1	2	2	1	2	2	3	1	2	1	1
CO6	1	0	0	1	1	2	2	1	2	2	3	2	2	2	1
CO (AVG)	0.83	0.67	0.17	0.83	0.67	1.83	2.17	1.17	2.17	1.83	2.33	1.67	1.83	1.67	1.00
Power System Modelling & Simulation Lab Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	3	1	0	0	0	1	0	0	2	2	2	1
CO2	2	2	2	2	1	0	0	0	1	1	0	1	2	2	2
CO3	3	2	2	3	2	0	0	0	1	0	0	2	1	3	2
CO4	2	1	2	2	1	0	0	0	0	1	0	1	2	2	3
CO5	3	2	1	1	2	0	0	0	1	0	0	2	1	2	2
CO6	2	1	2	3	1	0	0	0	0	1	0	1	2	2	2
CO (AVG)	2.33	1.67	1.83	2.33	1.33	0.00	0.00	0.00	0.67	0.50	0.00	1.50	1.67	2.17	2.00
Power System Planning Lab Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	1	1	0	1	2	2	1
CO2	3	2	2	1	2	0	0	0	1	1	0	2	1	2	1
CO3	2	1	2	2	1	0	0	0	1	1	0	2	2	2	2
CO4	2	1	1	2	1	0	0	0	0	0	0	1	2	2	2
CO5	2	3	2	1	2	0	0	0	1	2	0	2	1	2	2

CO6	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO (AVG)	2.17	1.50	1.83	1.67	1.33	0.00	0.00	0.00	0.67	0.83	0.00	1.50	1.67	2.00	1.67
VII SEM															
Electric Drives and their control Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	3	1	0	0	0	0	0	0	2	2	3	1
CO2	2	1	2	2	3	0	0	0	0	0	0	3	2	2	2
CO3	3	2	2	3	2	0	0	0	0	0	0	2	1	3	2
CO4	2	3	2	2	1	0	0	0	0	0	0	1	2	2	3
CO5	3	2	1	1	2	0	0	0	0	0	0	2	2	2	2
CO (AVG)	2.40	2.00	1.80	2.20	1.80	0.00	0.00	0.00	0.00	0.00	0.00	2.00	1.80	2.40	2.00
EHV AC/DC Transmission Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	3	1
CO3	3	1	2	3	2	0	0	0	0	0	0	2	2	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	3
CO5	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.60	1.40	2.00	1.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	2.20	2.00
Protection of Power System Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	1	2	0	0	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	3	1
CO3	3	2	2	3	2	0	0	0	0	0	0	2	1	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	3
CO5	3	2	2	3	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.60	1.60	2.20	2.20	1.60	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.40	2.20	2.00
Utilization of Electric Power Year of study: 2017-18															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	3	2	2	3
CO2	2	1	2	2	1	0	0	0	0	0	0	1	1	2	1
CO3	3	3	2	3	2	0	0	0	0	0	0	2	2	3	2
CO4	3	2	3	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.50	1.75	2.25	2.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	2.00	1.50	2.25	2.00
Computer Based Power System Lab Year of study: 2017-18															

III SEM															
Advanced Engg. Mathematics I Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2
CO2	2	2	2	2	2	2	2	2	2	0	0	0	2	2	2
CO3	2	2	2	3	2	0	0	0	0	0	0	0	1	2	1
CO4	2	1	1	2	1	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.50	1.25	1.25	1.75	1.25	0.50	0.50	0.50	0.50	0.00	0.00	0.00	1.50	1.75	1.75
Circuit Analysis & Synthesis Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	3	2	2	0	0	0	0	0	0	0	2	2	2
CO2	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO3	2	2	3	3	2	0	0	0	0	0	0	0	1	2	3
CO4	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO5	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO (AVG)	2.40	2.20	2.40	1.80	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.20	2.40
Digital Electronics Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	1	2	2	0	0	0	0	0	0	0	3	2	2
CO (AVG)	0.00	2.33	2.00	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	2.00	2.33
Electronics Devices & Circuits Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO4	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO5	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO6	3	2	1	2	2	0	0	0	0	0	0	0	3	2	2
CO (AVG)	2.40	2.40	2.40	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.60
Electrical Machines Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	2	2	2

Circuit Analysis Lab Lab Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	3	2	2	0	0	0	1	0	0	0	3	2	3
CO2	3	3	2	1	3	0	0	0	1	1	0	0	2	2	2
CO3	2	2	3	3	2	0	0	0	0	1	0	0	3	2	3
CO4	3	2	1	2	3	0	0	0	1	0	0	0	3	2	3
CO5	2	3	3	1	1	0	0	0	0	1	0	0	2	3	3
CO (AVG)	2.00	3.00	3.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.00	3.00	3.00

V SEM Analog Electronics Vast of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO2	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO3	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO4	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO5	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.40	2.40	2.40	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.60

Advanced Engineering Mathematics II Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	2	3	2	0	0	0	0	0	0	0	1	2	1
CO3	2	1	1	2	1	0	0	0	0	0	0	0	1	2	2
CO4	2	1	2	2	2	0	0	0	0	0	0	0	2	1	2
CO (AVG)	2.00	1.75	1.75	2.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.75	1.75

Electrical Engineering Material Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	3	2	0	0	0	0	0	0	0	1	2	3
CO3	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO4	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO5	2	1	3	2	2	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.40	2.20	2.40	1.80	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.20	2.40

Electrical Machine II Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3

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CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO4	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO5	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO (AVG)	2.60	2.40	2.00	1.60	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	2.20	2.40
Electrical Measurements Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO2	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO3	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO4	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.75	2.75	2.00	1.25	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25
Linear Integrated Circuit Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	3	2	0	0	0	0	0	0	0	1	2	3
CO2	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO3	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO4	2	1	3	2	2	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.25	2.00	2.50	2.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.25	2.50
Analog Electronics Lab Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	2	1	0	0	0	1	0	0	0	3	2	2
CO2	2	3	3	1	1	0	0	0	1	0	0	0	2	3	3
CO3	3	3	2	1	1	0	0	0	1	0	0	0	2	2	2
CO (AVG)	2.67	2.67	2.00	1.33	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	2.33	2.33	2.33
Electrical Machine Lab Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	2	2	0	0	0	1	1	0	0	2	2	3
CO2	3	2	1	2	1	0	0	0	1	0	0	0	3	2	2
CO3	3	2	1	2	1	0	0	0	1	1	0	0	3	2	2
CO4	2	3	3	1	1	0	0	0	0	1	0	0	2	3	3
CO (AVG)	2.50	2.25	2.00	1.75	1.25	0.00	0.00	0.00	0.75	0.75	0.00	0.00	2.50	2.25	2.50
Electrical Machine Design Lab Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3


 Date: _____

CO1	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO2	3	2	1	2	1	0	0	0	1	0	0	0	3	2	2
CO3	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO4	3	2	1	2	1	0	0	0	1	0	0	0	3	2	2
CO (AVG)	2.75	2.00	1.50	2.00	1.25	0.00	0.00	0.00	0.50	0.00	0.00	0.00	2.75	2.00	2.25

Electrical Measurement Lab Year of study: 2016-17

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO2	2	2	2	2	2	0	0	0	1	1	0	0	2	2	3
CO3	2	2	1	2	1	0	0	0	1	1	0	0	3	2	2
CO4	3	2	1	2	1	0	0	0	1	1	0	0	3	2	2
CO5	2	3	2	1	1	0	0	0	0	0	0	0	2	3	3
CO (AVG)	2.20	2.20	1.40	1.80	1.20	0.00	0.00	0.00	0.60	0.60	0.00	0.00	2.60	2.20	2.40

Linear Integrated Circuit Year of study: 2016-17

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	3	2	0	0	0	1	1	0	0	1	2	3
CO2	3	2	1	2	1	0	0	0	0	1	0	0	3	2	2
CO3	2	3	3	1	1	0	0	0	1	0	0	0	2	3	3
CO4	2	1	3	2	2	0	0	0	1	1	0	0	2	2	2
CO (AVG)	2.25	2.00	2.50	2.00	1.50	0.00	0.00	0.00	0.75	0.75	0.00	0.00	2.00	2.25	2.50

V SEM

Power Electronics Year of study: 2016-17

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	0	0	0	0	0	0	0	3	2	2
CO2	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO4	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO (AVG)	2.50	2.50	2.75	2.25	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50

Control System Year of study: 2016-17

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO4	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	3	0	0	0	0	1	0	0	2	2	3
CO2	3	2	3	3	2	0	0	0	1	0	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	1	1	0	0	3	3	2
CO4	3	2	3	3	2	0	0	0	1	1	0	0	2	2	3
CO5	2	3	2	2	3	0	0	0	0	1	0	0	3	3	2
CO (AVG)	2.67	2.33	2.67	2.67	2.67	0.00	0.00	0.00	0.67	0.67	0.00	0.00	2.33	2.33	2.67

Power Electronics Lab of study: 2016-17

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	2	3	0	0	0	0	1	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	1	1	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	0	1	0	0	3	3	2
CO4	3	2	3	3	2	0	0	0	1	0	0	0	2	2	3
CO (AVG)	2.50	2.50	2.75	2.50	2.50	0.00	0.00	0.00	0.50	0.75	0.00	0.00	2.25	2.50	2.75

System programing Lab of study: 2016-17

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	1	1	1	0	0	1	2	1
CO2	2	3	2	2	3	0	0	1	1	0	0	0	2	1	2
CO3	3	1	2	3	3	0	0	0	0	1	0	0	2	3	1
CO (AVG)	2.67	2.00	2.33	2.67	2.67	0.00	0.00	0.67	0.67	0.67	0.00	0.00	1.67	2.00	1.33

PROFESSIONAL ETHICS AND DISASTERS MANAGEMENT Lab of study: 2016-17

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	0	1	1	0	0	3	2	3
CO2	2	3	2	2	3	0	0	0	1	0	0	0	3	3	2
CO (AVG)	2.50	2.50	2.50	2.50	2.50	0.00	0.00	0.00	1.00	0.50	0.00	0.00	3.00	2.50	2.50

Micro Processor & Micro Controller - Year of study: 2016-17

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	2	0	0	0	0	0	0	0	3	2	2
CO2	3	2	2	2	3	0	0	0	0	0	0	0	2	2	3
CO3	2	2	1	2	3	0	0	0	0	0	0	0	3	2	2
CO4	3	2	2	2	3	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.50	2.00	1.50	2.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	2.00	2.50

Advance Python (Electron) - Year of study: 2016-17

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3

CO2	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.67	2.33	2.67	2.67	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	2.33	2.67
Neural Network, Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	1	2	2
CO3	1	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO4	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO (AVG)	1.50	1.75	1.75	1.75	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.25	1.75
Modern Control Theory, Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	2	0	0	0	0	0	0	0	1	2	2
CO2	1	2	2	1	2	0	0	0	0	0	0	0	2	2	1
CO3	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO4	2	2	3	1	2	0	0	0	0	0	0	0	1	2	1
CO5	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO (AVG)	1.80	2.00	1.80	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60
Switchgear & Protection, Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO2	2	2	2	2	2	0	0	0	0	0	0	0	1	2	2
CO3	1	2	2	1	2	0	0	0	0	0	0	0	2	2	1
CO4	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO5	2	2	3	1	2	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.80	2.00	1.80	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60
Smart Grid Technology, Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	2	2	0	0	0	0	0	0	0	1	2	1
CO2	2	2	1	2	2	0	0	0	0	0	0	0	2	2	2
CO3	2	2	3	2	2	0	0	0	0	0	0	0	1	2	1
CO4	2	2	1	2	2	0	0	0	0	0	0	0	2	2	2
CO (AVG)	1.75	2.00	1.75	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	2.00	1.50
Advanced Power Electronics Lab, Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3

CO1	3	2	3	1	2	0	0	0	0	0	0	0	2	2	2
CO2	2	2	2	2	3	0	0	0	1	1	0	0	2	3	2
CO3	2	2	3	1	2	0	0	0	0	1	0	0	2	2	3
CO4	2	3	2	2	1	0	0	0	1	1	0	0	2	3	2
CO5	2	2	1	3	2	0	0	0	1	1	0	0	2	2	3
CO6	2	1	2	2	3	0	0	0	0	1	0	0	3	2	2
CO7	3	2	3	2	2	0	0	0	1	0	0	0	2	2	3
CO (AVG)	2.29	2.00	2.29	1.86	2.14	0.00	0.00	0.00	0.57	0.71	0.00	0.00	2.14	2.29	2.43
Entrepreneurship Development Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	0	2	2	2	3	2	2	1	1	0	0
CO2	2	2	2	1	0	2	2	2	3	2	2	3	1	0	0
CO3	1	2	2	2	0	2	1	2	2	2	3	2	1	0	0
CO4	2	1	2	2	0	1	2	2	1	2	2	2	1	0	0
CO (AVG)	1.75	1.75	2.00	1.75	0.00	1.75	1.75	2.00	2.25	2.00	2.25	2.00	1.00	0.00	0.00
Power System Lab Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	3	0	0	0	1	1	0	0	2	3	2
CO2	2	2	3	1	2	0	0	0	0	1	0	0	2	2	3
CO3	2	3	2	2	1	0	0	0	1	1	0	0	2	3	2
CO4	2	2	1	3	2	0	0	0	1	1	0	0	2	2	3
CO (AVG)	2.00	2.25	2.00	2.00	2.00	0.00	0.00	0.00	0.75	1.00	0.00	0.00	2.00	2.50	2.50
Control System Lab Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	2	0	0	0	1	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	1	0	0	1	2	1
CO3	2	2	1	2	2	0	0	0	1	0	0	0	2	2	2
CO4	1	2	2	2	2	0	0	0	1	1	0	0	1	2	1
CO (AVG)	1.75	2.00	1.75	2.00	2.00	0.00	0.00	0.00	0.75	0.50	0.00	0.00	1.50	2.00	1.50
MicroProcessor & Microcontroller Lab Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	3	2	0	0	0	1	1	0	0	2	2	3
CO2	2	2	3	1	2	0	0	0	0	1	0	0	2	2	3
CO3	2	3	2	2	1	0	0	0	1	1	0	0	2	3	2
CO (AVG)	2.00	2.33	2.00	2.00	1.67	0.00	0.00	0.00	0.67	1.00	0.00	0.00	2.00	2.33	2.67

III SEM															
Artificial Intelligence Technology- Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	2	2	0	0	0	0	0	0	0	2	2	1
CO2	1	2	1	2	2	0	0	0	0	0	0	0	1	2	2
CO3	2	2	1	2	2	0	0	0	0	0	0	0	2	1	2
CO4	2	2	2	2	2	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.75	2.00	1.75	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.75	1.75
Operating Systems Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO2	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO3	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO5	2	2	2	1	2	0	0	0	0	0	0	2	2	1	2
CO (AVG)	2.20	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.80	1.80	1.60
Non Conventional Energy Sources- Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	1	2	0	1	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	1	0	0	0	0	1	2	1	1
CO3	3	1	2	2	1	0	0	0	0	0	0	1	1	2	1
CO4	2	2	2	1	2	0	1	0	0	0	0	2	2	1	2
CO (AVG)	2.25	1.50	2.00	1.50	1.50	0.00	0.75	0.00	0.00	0.00	0.00	1.50	1.50	1.50	1.50
Power System Analysis- Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO3	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO5	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.40	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.60	2.00	1.60
Power System Engineering Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO3	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2

CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO5	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.40	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.60	2.00	1.60
Power System Planning Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO2	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO3	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO (AVG)	2.25	1.25	2.00	1.75	1.25	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.75	2.00	1.50
Industrial Economics & Management Lab Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	0	1	0	2	2	1	2	2	1	2	2	2	1
CO2	1	1	0	0	1	2	2	1	3	2	3	1	2	1	1
CO3	1	0	0	1	1	1	2	1	2	1	3	2	2	2	1
CO4	0	1	0	1	0	2	3	2	2	2	1	2	1	2	1
CO5	1	1	1	1	1	2	2	1	2	2	3	1	2	1	1
CO6	1	0	0	1	1	2	2	1	2	2	3	2	2	2	1
CO (AVG)	0.83	0.67	0.17	0.83	0.67	1.83	2.17	1.17	2.17	1.83	2.33	1.67	1.83	1.67	1.00
Power System Modelling & Simulation Lab Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	3	1	0	0	0	1	0	0	2	2	2	1
CO2	2	2	2	2	1	0	0	0	1	1	0	1	2	2	2
CO3	3	2	2	3	2	0	0	0	1	0	0	2	1	3	2
CO4	2	1	2	2	1	0	0	0	0	1	0	1	2	2	3
CO5	3	2	1	1	2	0	0	0	1	0	0	2	1	2	2
CO6	2	1	2	3	1	0	0	0	0	1	0	1	2	2	2
CO (AVG)	2.33	1.67	1.83	2.33	1.33	0.00	0.00	0.00	0.67	0.50	0.00	1.50	1.67	2.17	2.00
Power System Planning Lab Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	1	1	0	1	2	2	1
CO2	3	2	2	1	2	0	0	0	1	1	0	2	1	2	1
CO3	2	1	2	2	1	0	0	0	1	1	0	2	2	2	2
CO4	2	1	1	2	1	0	0	0	0	0	0	1	2	2	2
CO5	2	3	2	1	2	0	0	0	1	2	0	2	1	2	2

CO6	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO (AVG)	2.17	1.50	1.83	1.67	1.33	0.00	0.00	0.00	0.67	0.83	0.00	1.50	1.67	2.00	1.67
VII SEM															
Electric Drives and Their Control Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	3	1	0	0	0	0	0	0	2	2	3	1
CO2	2	1	2	2	3	0	0	0	0	0	0	3	2	2	2
CO3	3	2	2	3	2	0	0	0	0	0	0	2	1	3	2
CO4	2	3	2	2	1	0	0	0	0	0	0	1	2	2	3
CO5	3	2	1	1	2	0	0	0	0	0	0	2	2	2	2
CO (AVG)	2.40	2.00	1.80	2.20	1.80	0.00	0.00	0.00	0.00	0.00	0.00	2.00	1.80	2.40	2.00
EVV AC/DC Transmission Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	3	1
CO3	3	1	2	3	2	0	0	0	0	0	0	2	2	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	3
CO5	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.60	1.40	2.00	1.80	1.60	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	2.20	2.00
Protection of Power System Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	1	2	0	0	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	3	1
CO3	3	2	2	3	2	0	0	0	0	0	0	2	1	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	3
CO5	3	2	2	3	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.60	1.60	2.20	2.20	1.60	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.40	2.20	2.00
Utilization of Electrical Power Year of study: 2016-17															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	3	2	2	3
CO2	2	1	2	2	1	0	0	0	0	0	0	1	1	2	1
CO3	3	3	2	3	2	0	0	0	0	0	0	2	2	3	2
CO4	3	2	3	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.50	1.75	2.25	2.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	2.00	1.50	2.25	2.00
Computer Based Power System Lab Year of study: 2016-17															

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	2	0	0	0	1	1	0	2	1	2	1
CO2	2	1	2	2	1	0	0	0	1	0	0	2	2	2	2
CO3	2	1	1	2	1	0	0	0	0	1	0	1	2	2	2
CO (AVG)	2.33	1.33	1.67	1.67	1.33	0.00	0.00	0.00	0.67	0.67	0.00	1.67	1.67	2.00	1.67

Electrical Drives and Control Lab, Year of study: 2016-17

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	3	0	0	0	1	1	0	3	2	2	2
CO2	3	2	2	3	2	0	0	0	0	2	0	2	1	3	2
CO3	2	3	2	2	1	0	0	0	2	1	0	1	2	2	3
CO4	3	2	1	1	2	0	0	0	1	1	0	2	2	2	2
CO (AVG)	2.50	2.00	1.75	2.00	2.00	0.00	0.00	0.00	1.00	1.25	0.00	2.00	1.75	2.25	2.25

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CO1	3	2	3	1	2	0	0	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	3	1
CO3	3	2	2	3	2	0	0	0	0	0	0	2	1	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	3
CO5	3	2	2	3	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.60	1.60	2.20	2.20	1.60	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.40	2.20	2.00

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	3	2	2	3
CO2	2	1	2	2	1	0	0	0	0	0	0	1	1	2	1
CO3	3	3	2	3	2	0	0	0	0	0	0	2	2	3	2
CO4	3	2	3	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.50	1.75	2.25	2.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	2.00	1.50	2.25	2.00

Computer Based Power System Lab Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	2	0	0	0	1	1	0	2	1	2	1
CO2	2	1	2	2	1	0	0	0	1	0	0	2	2	2	2
CO3	2	1	1	2	1	0	0	0	0	1	0	1	2	2	2
CO (AVG)	2.33	1.33	1.67	1.67	1.33	0.00	0.00	0.00	0.67	0.67	0.00	1.67	1.67	2.00	1.67

Electrical Drives and Control Lab Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	3	0	0	0	1	1	0	3	2	2	2
CO2	3	2	2	3	2	0	0	0	0	2	0	2	1	3	2
CO3	2	3	2	2	1	0	0	0	2	1	0	1	2	2	3
CO4	3	2	1	1	2	0	0	0	1	1	0	2	2	2	2
CO (AVG)	2.50	2.00	1.75	2.00	2.00	0.00	0.00	0.00	1.00	1.25	0.00	2.00	1.75	2.25	2.25

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CO3	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO5	2	2	2	1	2	0	0	0	0	0	0	2	2	1	2
CO (AVG)	2.20	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.80	1.80	1.60
Power System Engineering Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	1	2	0	1	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	1	0	0	0	0	1	2	1	1
CO3	3	1	2	2	1	0	0	0	0	0	0	1	1	2	1
CO4	2	2	2	1	2	0	1	0	0	0	0	2	2	1	2
CO (AVG)	2.25	1.50	2.00	1.50	1.50	0.00	0.75	0.00	0.00	0.00	0.00	1.50	1.50	1.50	1.50
Power System Engineering Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO3	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO5	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.40	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.60	2.00	1.60
Power System Engineering Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO2	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO3	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO5	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO (AVG)	2.40	1.40	2.00	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	1.40	1.60	2.00	1.60
Power System Engineering Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO2	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2
CO3	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO4	2	1	2	2	1	0	0	0	0	0	0	1	2	2	1
CO (AVG)	2.25	1.25	2.00	1.75	1.25	0.00	0.00	0.00	0.00	0.00	0.00	1.25	1.75	2.00	1.50
Industrial Economics & Management Lab Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	0	1	0	2	2	1	2	2	1	2	2	2	1
CO2	1	1	0	0	1	2	2	1	3	2	3	1	2	1	1
CO3	1	0	0	1	1	1	2	1	2	1	3	2	2	2	1
CO4	0	1	0	1	0	2	3	2	2	2	1	2	1	2	1

CO1	2	2	2	2	0	2	2	2	3	2	2	1	1	0	0
CO2	2	2	2	1	0	2	2	2	3	2	2	3	1	0	0
CO3	1	2	2	2	0	2	1	2	2	2	3	2	1	0	0
CO4	2	1	2	2	0	1	2	2	1	2	2	2	1	0	0
CO (AVG)	1.75	1.75	2.00	1.75	0.00	1.75	1.75	2.00	2.25	2.00	2.25	2.00	1.00	0.00	0.00

Power System Lab Year of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	3	0	0	0	1	1	0	0	2	3	2
CO2	2	2	3	1	2	0	0	0	0	1	0	0	2	2	3
CO3	2	3	2	2	1	0	0	0	1	1	0	0	2	3	2
CO4	2	2	1	3	2	0	0	0	1	1	0	0	2	2	3
CO (AVG)	2.00	2.25	2.00	2.00	2.00	0.00	0.00	0.00	0.75	1.00	0.00	0.00	2.00	2.50	2.50

Control System Lab Year of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	2	0	0	0	1	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	1	0	0	1	2	1
CO3	2	2	1	2	2	0	0	0	1	0	0	0	2	2	2
CO4	1	2	2	2	2	0	0	0	1	1	0	0	1	2	1
CO (AVG)	1.75	2.00	1.75	2.00	2.00	0.00	0.00	0.00	0.75	0.50	0.00	0.00	1.50	2.00	1.50

MicroProcessor & Microcontroller Lab Year of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	3	2	0	0	0	1	1	0	0	2	2	3
CO2	2	2	3	1	2	0	0	0	0	1	0	0	2	2	3
CO3	2	3	2	2	1	0	0	0	1	1	0	0	2	3	2
CO (AVG)	2.00	2.33	2.00	2.00	1.67	0.00	0.00	0.00	0.67	1.00	0.00	0.00	2.00	2.33	2.67

VLSI

Artificial Intelligence Lab Year of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	2	2	0	0	0	0	0	0	0	2	2	1
CO2	1	2	1	2	2	0	0	0	0	0	0	0	1	2	2
CO3	2	2	1	2	2	0	0	0	0	0	0	0	2	1	2
CO4	2	2	2	2	2	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.75	2.00	1.75	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.75	1.75

Operating Systems Year of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	2	2	1	0	0	0	0	0	0	1	2	2	2
CO2	3	2	2	1	2	0	0	0	0	0	0	2	1	2	2

CO (AVG)	1.50	1.75	1.75	1.75	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.25	1.75
Microcontroller Technology Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	2	2	2	0	0	0	0	0	0	0	1	2	2
CO2	1	2	2	1	2	0	0	0	0	0	0	0	2	2	1
CO3	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO4	2	2	3	1	2	0	0	0	0	0	0	0	1	2	1
CO5	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO (AVG)	1.80	2.00	1.80	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60
Smart Grid Technology Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO2	2	2	2	2	2	0	0	0	0	0	0	0	1	2	2
CO3	1	2	2	1	2	0	0	0	0	0	0	0	2	2	1
CO4	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO5	2	2	3	1	2	0	0	0	0	0	0	0	1	2	1
CO (AVG)	1.80	2.00	1.80	1.60	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	1.60	1.60
Smart Grid Technology Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	2	2	2	0	0	0	0	0	0	0	1	2	1
CO2	2	2	1	2	2	0	0	0	0	0	0	0	2	2	2
CO3	2	2	3	2	2	0	0	0	0	0	0	0	1	2	1
CO4	2	2	1	2	2	0	0	0	0	0	0	0	2	2	2
CO (AVG)	1.75	2.00	1.75	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	2.00	1.50
Advanced Power Electronics Lab Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	1	2	0	0	0	0	0	0	0	2	2	2
CO2	2	2	2	2	3	0	0	0	1	1	0	0	2	3	2
CO3	2	2	3	1	2	0	0	0	0	1	0	0	2	2	3
CO4	2	3	2	2	1	0	0	0	1	1	0	0	2	3	2
CO5	2	2	1	3	2	0	0	0	1	1	0	0	2	2	3
CO6	2	1	2	2	3	0	0	0	0	1	0	0	3	2	2
CO7	3	2	3	2	2	0	0	0	1	0	0	0	2	2	3
CO (AVG)	2.29	2.00	2.29	1.86	2.14	0.00	0.00	0.00	0.57	0.71	0.00	0.00	2.14	2.29	2.43
Entrepreneurship Development Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	2	3	0	0	0	0	1	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	1	1	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	0	1	0	0	3	3	2
CO4	3	2	3	3	2	0	0	0	1	0	0	0	2	2	3
CO (AVG)	2.50	2.50	2.75	2.50	2.50	0.00	0.00	0.00	0.50	0.75	0.00	0.00	2.25	2.50	2.75

System programming Lab of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	1	1	1	0	0	1	2	1
CO2	2	3	2	2	3	0	0	1	1	0	0	0	2	1	2
CO3	3	1	2	3	3	0	0	0	0	1	0	0	2	3	1
CO (AVG)	2.67	2.00	2.33	2.67	2.67	0.00	0.00	0.67	0.67	0.67	0.00	0.00	1.67	2.00	1.33

PROFESSIONAL ETHICS AND DISASTERS MANAGEMENT Lab of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	0	1	1	0	0	3	2	3
CO2	2	3	2	2	3	0	0	0	1	0	0	0	3	3	2
CO (AVG)	2.50	2.50	2.50	2.50	2.50	0.00	0.00	0.00	1.00	0.50	0.00	0.00	3.00	2.50	2.50

Y15E1

Microprocessor & Microcontroller Year of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	2	0	0	0	0	0	0	0	3	2	2
CO2	3	2	2	2	3	0	0	0	0	0	0	0	2	2	3
CO3	2	2	1	2	3	0	0	0	0	0	0	0	3	2	2
CO4	3	2	2	2	3	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.50	2.00	1.50	2.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	2.00	2.50

Advance Power Electronics Year of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO2	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.67	2.33	2.67	2.67	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	2.33	2.67

Mobile Network Year of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	2	1	2	1	0	0	0	0	0	0	0	2	1	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	1	2	2
CO3	1	1	2	1	1	0	0	0	0	0	0	0	1	1	1
CO4	2	2	1	2	1	0	0	0	0	0	0	0	2	1	2

Algorithms Lab of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	2	2	2	0	0	0	0	0	0	0	2	3	2
CO2	3	2	3	2	2	0	0	0	0	0	0	0	2	1	2
CO3	2	2	2	2	1	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.67	2.00	2.33	2.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.00	2.00

Algorithmic Design of Power system study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO2	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO4	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO5	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO (AVG)	2.60	2.40	2.80	2.60	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	2.40	2.80

Introduction to VLSI of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	3	0	0	0	0	1	0	0	2	2	3
CO2	3	2	3	3	2	0	0	0	1	0	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	1	1	0	0	3	3	2
CO4	3	2	3	3	3	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.75	2.25	2.75	2.75	2.75	0.00	0.00	0.00	0.50	0.50	0.00	0.00	2.25	2.25	2.75

DBMS Lab of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	2	3	0	0	0	1	0	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	0	1	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO4	3	2	3	3	2	0	0	0	1	1	0	0	2	2	3
CO (AVG)	2.50	2.50	2.75	2.50	2.50	0.00	0.00	0.00	0.50	0.50	0.00	0.00	2.25	2.50	2.75

Communication Lab of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	3	3	0	0	0	0	1	0	0	2	2	3
CO2	3	2	3	3	2	0	0	0	1	0	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	1	1	0	0	3	3	2
CO4	3	2	3	3	2	0	0	0	1	1	0	0	2	2	3
CO5	2	3	2	2	3	0	0	0	0	1	0	0	3	3	2
CO (AVG)	2.67	2.33	2.67	2.67	2.67	0.00	0.00	0.00	0.67	0.67	0.00	0.00	2.33	2.33	2.67

Power Electronics Lab of study: 2015-16

Electrical Measurement Lab Year of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO2	2	2	2	2	2	0	0	0	1	1	0	0	2	2	3
CO3	2	2	1	2	1	0	0	0	1	1	0	0	3	2	2
CO4	3	2	1	2	1	0	0	0	1	1	0	0	3	2	2
CO5	2	3	2	1	1	0	0	0	0	0	0	0	2	3	3
CO (AVG)	2.20	2.20	1.40	1.80	1.20	0.00	0.00	0.00	0.60	0.60	0.00	0.00	2.60	2.20	2.40

Linear Integrated Circuit Year of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	3	2	0	0	0	1	1	0	0	1	2	3
CO2	3	2	1	2	1	0	0	0	0	1	0	0	3	2	2
CO3	2	3	3	1	1	0	0	0	1	0	0	0	2	3	3
CO4	2	1	3	2	2	0	0	0	1	1	0	0	2	2	2
CO (AVG)	2.25	2.00	2.50	2.00	1.50	0.00	0.00	0.00	0.75	0.75	0.00	0.00	2.00	2.25	2.50

V SEM

Power Electronics Year of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	2	2	0	0	0	0	0	0	0	3	2	2
CO2	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO4	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO (AVG)	2.50	2.50	2.75	2.25	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	2.50	2.50

Control System Year of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO4	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO (AVG)	2.50	2.50	2.75	2.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	2.50	2.75

Digital Management System Year of study: 2015-16

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	3	2	3	0	0	0	0	0	0	0	2	3	3
CO2	3	2	3	3	2	0	0	0	0	0	0	0	2	2	3
CO3	2	3	2	2	3	0	0	0	0	0	0	0	3	3	2
CO (AVG)	2.33	2.67	2.67	2.33	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	2.67	2.67

CO4	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO5	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO (AVG)	2.60	2.40	2.00	1.60	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.40	2.20	2.40
Measurement Lab Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO2	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO3	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO4	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.75	2.75	2.00	1.25	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	2.25	2.25
Integrated Quality Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	3	2	0	0	0	0	0	0	0	1	2	3
CO2	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO3	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO4	2	1	3	2	2	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.25	2.00	2.50	2.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.25	2.50
Analog Electronics Lab Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	2	1	0	0	0	1	0	0	0	3	2	2
CO2	2	3	3	1	1	0	0	0	1	0	0	0	2	3	3
CO3	3	3	2	1	1	0	0	0	1	0	0	0	2	2	2
CO (AVG)	2.67	2.67	2.00	1.33	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	2.33	2.33	2.33
Electrical Machine Lab Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	2	2	0	0	0	1	1	0	0	2	2	3
CO2	3	2	1	2	1	0	0	0	1	0	0	0	3	2	2
CO3	3	2	1	2	1	0	0	0	1	1	0	0	3	2	2
CO4	2	3	3	1	1	0	0	0	0	1	0	0	2	3	3
CO (AVG)	2.50	2.25	2.00	1.75	1.25	0.00	0.00	0.00	0.75	0.75	0.00	0.00	2.50	2.25	2.50
Electrical Machine Design Lab Year of study: 2015-16															
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO2	3	2	1	2	1	0	0	0	1	0	0	0	3	2	2
CO3	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO4	3	2	1	2	1	0	0	0	1	0	0	0	3	2	2
CO (AVG)	2.75	2.00	1.50	2.00	1.25	0.00	0.00	0.00	0.50	0.00	0.00	0.00	2.75	2.00	2.25

CO1	2	1	3	2	2	0	0	0	1	0	0	0	3	2	3
CO2	3	3	2	1	3	0	0	0	1	1	0	0	2	2	2
CO3	2	2	3	3	2	0	0	0	0	1	0	0	3	2	3
CO4	3	2	1	2	3	0	0	0	1	0	0	0	3	2	3
CO5	2	3	3	1	1	0	0	0	0	1	0	0	2	3	3
CO (AVG)	2.00	3.00	3.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.00	3.00	3.00

IV SEM

Advanced English (Year of study 2015-16)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO2	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO3	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO4	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO5	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.40	2.40	2.40	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.60

Advanced English (Year of study 2015-16)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	2	3	2	0	0	0	0	0	0	0	1	2	1
CO3	2	1	1	2	1	0	0	0	0	0	0	0	1	2	2
CO4	2	1	2	2	2	0	0	0	0	0	0	0	2	1	2
CO (AVG)	2.00	1.75	1.75	2.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.75	1.75

Advanced English (Year of study 2015-16)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	3	2	0	0	0	0	0	0	0	1	2	3
CO3	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO4	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO5	2	1	3	2	2	0	0	0	0	0	0	0	2	2	2
CO (AVG)	2.40	2.20	2.40	1.80	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.20	2.40

Advanced English (Year of study 2015-16)

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2
CO2	2	2	2	2	2	2	2	2	2	0	0	0	2	2	2
CO3	2	2	2	3	2	0	0	0	0	0	0	0	1	2	1
CO4	2	1	1	2	1	0	0	0	0	0	0	0	1	2	2
CO (AVG)	1.50	1.25	1.25	1.75	1.25	0.50	0.50	0.50	0.50	0.00	0.00	0.00	1.50	1.75	1.75
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	1	3	2	2	0	0	0	0	0	0	0	2	2	2
CO2	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO3	2	2	3	3	2	0	0	0	0	0	0	0	1	2	3
CO4	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO5	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO (AVG)	2.40	2.20	2.40	1.80	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	2.20	2.40
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	1	2	2	0	0	0	0	0	0	0	3	2	2
CO (AVG)	0.00	2.33	2.00	1.67	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	2.00	2.33
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2
CO4	2	3	3	1	1	0	0	0	0	0	0	0	2	3	3
CO5	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO6	3	2	1	2	2	0	0	0	0	0	0	0	2	2	3
CO (AVG)	2.40	2.40	2.40	1.60	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	2.20	2.60
Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	3	2	1	1	0	0	0	0	0	0	0	2	2	2
CO2	2	2	3	2	2	0	0	0	0	0	0	0	2	2	3
CO3	3	2	1	2	1	0	0	0	0	0	0	0	3	2	2