



Vidya Jyothi Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)

Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electronics and Communication Engineering

(Accredited by NBA)

R15 CO-PO-PSO MAPPING

II-I

201.MATHEMATICS-IV

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	-	2	-	2	1	2	2	3	2
CO2	3	3	3	2	3	-	1	-	3	2	3	1	3	1
CO3	3	3	2	3	1	-	1	-	3	2	3	3	3	2
CO4	3	2	3	3	3	-	1	-	1	2	1	3	2	1
CO5	3	3	3	3	2	-	2	-	2	3	2	3	3	2
Average	3	2.8	2.8	2.6	2.2	-	1.4	-	2.2	2	2.2	2.4	2.8	1.6

202.ELECTRONIC DEVICES AND CIRCUITS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	1	2	-	-	2	-	-	-	3	3
CO2	3	3	2	3	1	3	-	2	2	-	-	-	3	3
CO3	2	2	3	2	1	3	-	2	2	-	-	-	3	3
CO4	2	2	2	2	1	2	-	-	2	-	-	-	3	3
CO5	3	2	2	2	1	3	-	-	2	2	-	-	3	3
Average	2.6	2.4	2.4	2.4	1	2.6	-	2	2	2	-	-	3	3

203.SIGNALS AND SYSTEMS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	-	1	-	1	1	2	2	3	-
CO2	3	3	3	2	3	-	1	1	3	1	2	1	3	-
CO3	3	3	2	3	1	-	1	1	3	2	2	3	3	-
CO4	3	3	3	3	3	-	1	1	1	2	1	3	3	-
CO5	3	3	2	2	3	-	1	-	2	2	2	2	3	-
Average	3	3	2.6	2.4	2.4	-	1	1	2	1.6	1.8	2.2	3	-



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204.SWITCHING THEORY AND LOGIC DESIGN

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	2	-	-	2	1	2	3	3	2
CO2	3	3	3	2	3	2	-	-	3	2	3	1	3	2
CO3	3	3	2	3	1	1	-	1	3	2	3	3	3	2
CO4	3	2	3	3	3	1	-	1	1	2	1	3	3	2
CO5	3	2.75	2.75	2.5	2.25	1	-	1	2.25	1.75	2.25	2.25	3	2
Average	3	2.75	2.75	2.5	2.25	1.4	-	1	2.25	1.75	2.25	2.25	3	2

205.ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	2	2	2	2	-	3	2	2	3	3	2
CO2	3	2	1	1	1	1	2	-	3	1	3	3	3	3
CO3	3	2	3	1	2	1	2	2	3	2	2	3	3	2
CO4	3	1	2	2	3	2	2	1	2	2	3	3	3	3
CO5	3	2	2	3	2	3	2		2	2	3	3	3	2
Average	3	1.8	1.8	1.8	2	1.8	2	1.5	2.6	1.8	2.6	3	3	2.4

206.PROBABILITY THEORY AND STOCHASTIC PROCESS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
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CO1	3	3	3	3	2	2	3	1	1	1	1	2	3	3
CO2	3	3	3	3	2	2	1	1	1	1	1	1	3	3
CO3	3	3	3	3	2	2	3	-	-	-	-	1	3	3
CO4	3	3	3	3	2	2	3	1	-	1	1	1	3	3
CO5	3	3	3	3	2	2	2	-	-	-	-	1	3	3
Average	3	3	3	3	2	2	2.4	1	1	1	1	1.2	3	3

207.ELECTRONIC DEVICES AND CIRCUITS LAB

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	-	-	1	2	3	3	-	2	3
CO2	3	3	2	3	3	-	-	1	2	3	3	-	2	3
CO3	3	3	2	3	3	-	-		2	3	3	-	2	3
CO4	3	3	2	3	3	-	-	1	2	3	3	-	2	3
CO5	3	2	2	3	3	-	-		2	3	3	-	2	3
Average	3	2.8	2.2	3	3	-	-	1	2	3	3	-	2	3

208.BASIC SIMULATION LAB

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	1	2	-	1	2	-	3	2	3	3
CO2	3	3	2	3	2	3	-	1	3	2	3	3	3	3
CO3	2	2	3	3	1	3	-	1	2	-	3	2	3	3
CO4	2	2	1	2	1	2	-	1	2	-	-	-	3	3
CO5	3	3	3	3	2	3	-	1	3	2	3	3	3	3
Average	2.6	2.6	2.4	2.8	1.4	2.6	-	1	2.4	2	2.4	2	3	3



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209.PRINCIPLES OF ELECTRICAL ENGINEERING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	2	2	3	-	3	-	2	3	3	2
CO2	3	3	3	3	2	2	3	-	3	-	2	3	2	2
CO3	3	3	3	3	3	2	3	-	3	-	2	3	3	3
CO4	3	3	3	3	3	2	3	-	3	-	3	3	3	3
CO5	3	3	3	3	3	2	3	-	3	-	3	3	3	3
Average	3	3	3	3	2.6	2	3	-	3	-	2.4	3	2.8	2.6

210.ELECTRONIC CIRCUIT ANALYSIS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	-	2	-	2	2	-	-	1	3	3
CO2	3	3	3	3	-	2	-	2	2	-	-	1	3	3
CO3	3	3	2	3	-	2	-	1	1	-	-	1	3	3
CO4	3	3	3	3	-	2	-	1	2	-	-	1	3	3
CO5	3	3	3	3	-	2	-		2	-	-	1	3	3
Average	3	3	2.8	3	-	2	-	1.5	1.8	-	-	1	3	3

211.PULSE AND DIGITAL CIRCUITS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	1	-	2	2	1	2	1	2	3	3	3
CO2	3	2	2	1	-	1	2	2	3	1	1	3	3	3
CO3	3	3	1	2	-	1	1	-	2	1	2	3	3	3
CO4	3	3	1	1	-	1	1	1	2	1	2	3	3	3
CO5	3	3	2	1	-	1	1	-	3	1	1	3	3	3
Average	3	2.66 7	1.666 7	1.333	-	1.33 3	1.67	1	2.33	1	1.667	3	3	3



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212.ELECTROMAGNETIC THEORY AND TRANSMISSION LINES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	2	2	1	3	3	1	3	3	1
CO2	3	3	2	2	2	2	1	1	2	2	1	3	3	1
CO3	3	3	1	2	1	2	1	1	3	3	1	3	3	1
CO4	3	3	1	1	2	1	1	-	2	3	1	3	3	1
CO5	3	3	2	2	1	1	1	-	3	3	1	3	3	1
Average	3	3	1.8	1.8	1.6	1.6	1.2	1	2.6	2.8	1	3	3	1

213.DIGITAL SYSTEM DESIGN

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	3	2	3	1	-	-	1	1	3	3	3	3
CO2	3	1	3	2	3	1	-	-	1	1	3	3	3	3
CO3	3	1	3	2	3	1	-	1	1	1	3	3	3	3
CO4	3	1	3	2	3	1	-	1	1	1	3	3	3	3
CO5	3	1	3	2	3	1	-	1	1	1	3	3	3	3
Average	3	1	3	2	3	1	-	1	1	1	3	3	3	3

214.ENVIRONMENTAL SCIENCE

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



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215.ELECTRONIC CIRCUITS AND ANALYSIS LAB

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	2	1	1	2	1	2	1	3	3
CO2	3	3	3	3	3	2	1	1	2	2	2	1	3	3
CO3	3	3	2	3	3	2	1	3	1	1	3	1	3	3
CO4	3	3	3	3	3	2	1	3	2	1	2	1	3	3
CO5	3	3	3	3	3	2	1	1	2	1	2	1	3	3
Average	3	3	2.8	3	3	2	1	1.8	1.8	1.2	2.2	1	3	3

216.PULSE AND DIGITAL CIRCUITS LAB

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	1	-	2	1	1	3	2	2	3	3	3
CO2	3	2	1	1	-	3	1	1	3	1	2	3	3	3
CO3	3	3	2	1	-	2	1	1	3	2	3	3	3	3
CO4	3	2	1	1	-	3	2	-	2	2	2	3	3	3
CO5	3	3	1	1	-	2	1	-	2	1	2	3	3	3
Average	3	2.6	1.4	1	-	2.4	1.2	1	2.6	1.6	2.2	3	3	3

III-I

301.ANALOG COMMUNICATIONS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	3	2	1	-	3	3	3	3	3	3
CO2	3	3	2	2	3	2	1	2	3	3	3	3	3	3
CO3	3	2	3	3	3	3	2	-	2	3	2	2	3	3
CO4	3	2	2	3	3	2	1	3	3	3	2	3	3	3
CO5	3	2	3	2	2	2	1	-	3	3	3	3	3	3
Average	3	2.4	2.4	2.4	2.8	2.2	1.2	2.5	2.8	3	2.6	2.8	3	3

302.LINEAR AND DIGITAL IC APPLICATIONS



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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	2	3	2	-	3	2	3	3	3	3
CO2	3	3	3	3	2	3	2	2	3	2	3	3	3	3
CO3	3	3	3	3	2	3	2	1	3	2	3	3	3	3
CO4	3	3	3	3	2	3	2	-	3	2	3	3	3	3
CO5	3	3	3	3	3	3	2	-	3	2	3	3	3	3
Average	3	3	3	3	2.2	3	2	1.5	3	2	3	3	3	3

303.CONTROL SYSTEMS ENGINEERING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	2	2	1	-	-	2	2	3	3	-
CO2	3	3	3	3	2	2	1	1	-	1	2	3	3	-
CO3	3	3	3	3	2	2	1	1	-	2	2	3	3	-
CO4	3	3	3	3	2	2	1	1	-	-	2	3	3	-
CO5	3	3	3	3	2	2	1	-	-	-	2	3	3	-
Average	3	3	3	3	2	2	1	1	0	1.67	2	3	3	-

304.COMPUTER ORGANIZATION AND ARCHITECTURE((Professional Elective-I)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	-	2	-	2	2	2	2	3	1
CO2	3	3	3	2	3	-	2	1	3	2	3	2	3	1
CO3	2	3	2	3	1	-	3	1	3	2	3	3	3	1
CO4	3	2	3	2	3	-	2	1	2	2	2	3	3	1
CO5	2	3	2	2	2	-	2	-	2	3	2	2	3	1
Average	2.6	2.8	2.6	2.2	2.2	-	2.2	1	2.4	2.2	2.4	2.4	3	1

SMART CITY (SC)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	1	-	1	2	2	2	1	-	2	3	3



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CO2	3	3	3	2	3	2	2	1	2	2	1	2	2	3
CO3	2	2	3	3	3	3	3	2	3	1	-	3	1	1
CO4	2	2	1	2	2	1	3	2	1	1	-	2	1	1
CO5	1	2	1	-	-	1	1	-	2	1	2	-	1	2
Average	2	2	2	2	3	2	2	2	2	1	2	2	2	2

ELEMENTS OF MECHANICAL ENGINEERING (EME)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	-	-	-	-	3	-	-	-	-	-	-	-	2
CO2	2	2	-	-	-	3	-	-	-	-	-	-	-	3
CO3	3	-	3	-	-	3	-	-	-	-	-	-	-	2
CO4	2	-	-	-	-	3	-	-	-	-	-	-	-	2
CO5	2	-	-	2	-	3	-	-	-	-	-	-	-	2
Average	2	2	3	2	-	3	-	-	-	-	-	-	-	2

PRODUCT ENGINEERING (PE)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	3	1	-	-	-	-	-	-	-	-	-	-
CO2	3	2	2	2	2	2	2	1	-	-	-	-	2	-
CO3	3	2	2	2	-	-	-	-	-	-	-	-	-	-
CO4	2	2	2	2	-	-	-	-	-	-	-	-	-	-
CO5	2	1	3	1	-	-	-	-	-	-	-	2	2	-
Average	2	2	2	2	2	2	2	1	-	-	-	2	2	-

Java Programming(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
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CO1	3	3	3	3	3	2	1	1	3	1	1	2	3	2
CO2	3	3	3	3	3	2	1	1	3	1	1	2	3	2
CO3	3	3	3	3	3	2	1	1	3	1	1	2	3	2
CO4	3	3	3	3	3	2	1	1	3	2	1	2	3	2
CO5	3	3	3	3	3	2	1	1	3	2	1	2	3	2
Average	3	3	3	3	3	2	1	1	3	1.4	1	2	3	2

Operating Systems(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	2	--	2	2	2	2	3	3	3
CO2	3	2	1	1	1	2	2	--	1	2	1	2	3	3
CO3	3	2	2	2	2	2	--	2	2	2	2	1	3	3
CO4	3	3	3	3	3	2	2	--	2	2	2	1	3	3
CO5	3	3	3	3	3	2	1	1	1	2	2	1	3	3
Average	3	2.6	2.4	2.4	2.4	2	1.67	1.67	1.6	2	1.8	1.6	3	3

TOTAL QUALITY MANAGEMENT (TQM)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	3	2	2	-	-	-	3	3	2	3	2	2
CO2	-	-	3	3	2	-	-	-	3	-	1	3	-	-
CO3	2	-	2	2	2	1	-	-	3	-	-	3	-	-
CO4	-	-	3	-	3	-	3	-	-	-	-	-	-	-
CO5	-	-	2	-	-	3	3	1	3	2	-	3	-	-
Average	2	1	2.6	2.33	2.25	2	3	1	3	2.5	1.5	3	2	2

REMOTE SENSING& GIS (RS&GIS)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	3	-	3	2	3	2	-	2	2	-	2	2	3
CO2	3	1	-	2	2	-	3	-	1	-	-	2	3	2



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CO3	3	2	2	1	2	-	2	-	-	3	-	2	1	2
CO4	1	3	3	2	3	2	2	-	2	2	2	3	1	2
CO5	2	2	-	3	2	2	2	-	1	-	-	2	2	1
Average	2	2	3	2	2	2	2	-	1	2	2	2	2	2

305.INTRODUCTION TO MICROCONTROLLERS AND APPLICATIONS

(Open Elective – I)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	1	1	1	-	2	1	2	3	3	2
CO2	3	3	3	3	1	1	1	1	2	1	2	2	3	2
CO3	3	3	3	3	1	1	1	1	2	1	2	3	3	2
CO4	3	3	3	3	1	1	1	1	2	1	1	3	3	2
CO5	3	3	3	3	1	1	1	-	2	2	2	3	3	2
Average	3	3	3	3	1	1	1	1	2	1.2	1.8	2.8	3	2

306.BASIC ELECTRONICS AND INSTRUMENTATION

(Open Elective-I)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	1	1	1		2	1	2	3	3	2
CO2	3	3	3	3	1	1	1	1	2	1	2	2	3	2
CO3	3	3	3	3	1	1	1	1	2	1	2	3	3	2
CO4	3	3	3	3	1	1	1	1	2	1	1	3	3	2
CO5	3	3	3	3	1	1	1	-	2	2	2	3	3	2
Average	3	3	3	3	1	1	1	1	2	1.2	1.8	2.8	3	2

307.ANALOG COMMUNICATION LAB

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



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CO3	3	3	3	3	3	3	2	1	3	3	3	2	3	3
CO4	3	3	2	3	3	2	1	3	3	3	3	2	3	3
CO5	3	3	3	2	3	2	1	1	3	3	3	3	3	3
Average	3	3	2.6	2.6	3	2.2	1.4	1.6	3	3	3	2.6	3	3

308.LDIC Application Lab

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	3	2	-	3	3	3	3	3	3
CO2	3	3	3	3	3	3	2	1	3	3	3	3	3	3
CO3	3	3	3	3	3	3	2	1	3	3	3	3	3	3
CO4	3	3	3	3	3	3	2	-	3	3	3	3	3	3
CO5	3	3	3	3	3	3	2	1	3	3	3	3	3	3
Average	3	3	3	3	3	3	2	1	3	3	3	3	3	3

309.ADVANCED COMMUNICATION SKILLS LAB

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	-	-	-	-	-	-	-	-	3	-	3	3	3
CO2	-	-	-	-	-	-	-	-	-	3	-	3	3	3
CO3	-	-	-	-	-	-	-	-	-	3	-	3	3	3
CO4	-	-	-	-	-	-	-	-	2	3	-	3	3	3
CO5	-	-	-	-	-	-	-	-	2	3	-	3	3	3
Average	-	-	-	-	-	-	-	-	2	3	-	3	3	3

310.MC-III. QUANTITATIVE METHODS & LOGICAL REASONING

(CSE, IT & ECE)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	-	2	-	2	1	2	2	3	2
CO2	3	3	3	2	3	-	1	-	3	2	3	1	3	1



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CO3	3	3	2	3	1	-	1	-	3	2	3	3	3	2
CO4	3	2	3	3	3	-	1	-	1	2	1	3	2	1
CO5	3	3	3	3	2	-	2	-	2	3	2	3	3	2
Average	3	2.8	2.8	2.6	2.2	-	1.4	-	2.2	2	2.2	2.4	2.8	1.6

III-II

311.MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	2	2	3	-	3	-	-	1	-	3	2	-	-
CO2	-	3	3	3	2	-	-	-	-	-	3	1	-	-
CO3	-	-	2	-	2	-	-	-	3	-	2	-	-	-
CO4	-	-	-	-	-	1	2	1	-	-	2	-	-	-
CO5	-	-	-	-	-	-	-	-	-	3	3	-	-	-
Average	-	2.5	2.3	3	2	2	2	1	2	3	2.66	1.5	-	-

312.VLSI DEISGN

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	3	1	1	-	3	-	3	1	2	3	3	3
CO2	3	2	2	1	1	-	1	1	2	1	1	3	3	3
CO3	3	3	3	3	3	-	2	-	3	1	2	3	3	3
CO4	3	2	3	1	2	-	1	1	2	1	1	3	3	3
CO5	3	3	3	3	3	-	2	-	3	1	1	3	3	3
Average	3	2.2	2.8	1.8	2	-	1.8	-	2.6	1	1.4	3	3	3

313.DIGITAL SIGNAL PROCESSING



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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	1	2	1	2	-	2	1	3	3	3	3
CO2	3	3	3	3	2	1	2	-	2	1	3	3	3	3
CO3	3	2	3	3	2	1	1	-	2	1	3	3	3	3
CO4	3	2	3	3	2	1	2	3	2	1	3	3	3	3
CO5	3	2	3	3	2	1	1	3	2	1	3	3	3	3
Average	3	2.4	2.8	2.6	2	1	1.6	3	2	1	3	3	3	3

314.MICROPROCESSORS AND MICROCONTROLLERS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	3	-	1	2	-	2	3	3	3
CO2	3	3	3	3	3	3	-	1	2	-	2	3	3	3
CO3	3	3	3	3	3	3	-	-	2	-	2	3	3	3
CO4	3	3	3	3	2	3	-	1	2	-	2	3	3	3
CO5	3	3	3	3	3	3	-	1	2	-	2	3	3	3
Average	3	3	3	3	2.6	3	-	1	2	-	2	3	3	3

316.PROGRAMMING IN MATLAB

(Professional Elective-II)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	-	1	-	3	1	1	3	3	3
CO2	3	3	3	3	3	-	2	1	2	2	2	3	3	3
CO3	3	3	2	3	3	-	1	1	3	1	2	3	3	3
CO4	3	3	3	3	3	-	2	-	2	2	2	3	3	3
CO5	3	3	3	2	3	-	2	1	2	1	1	2	3	3
Average	3	3	2.8	2.8	3	-	1.6	1	2.4	1.4	1.6	2.8	3	3

317.SATELLITE AND WIRELESS COMMUNICATIONS

(Professional Elective-II)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	2	1	2	2	-	1	1	1	3	3	1



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CO2	3	2	3	2	1	2	2	1	1	1	1	3	3	1
CO3	3	2	3	2	1	2	2	-	1	1	1	3	3	1
CO4	3	2	3	2	1	2	2	1	1	1	1	3	3	1
CO5	3	2	3	2	1	2	2	-	1	1	1	3	3	1
Average	3	2	3	2	1	2	2	1	1	1	1	3	3	1

ENVIRONMENT POLLUTION & CONTROL METHODS (EPCM)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	-	-	-	2	2	1	-	1	-	1	-	2
CO2	2	-	1	2	2	1	1	1	-	1	-	1	-	3
CO3	1	2	3	1	-	1	1	-	-	1	-	-	-	2
CO4	2	1	-	-	-	1	1	-	1	-	-	-	-	1
CO5	1	-	1	-	-	1	1	1	-	1	-	1	-	2
Average	2	2	2	2	2	1	1	1	1	1	-	1	-	2

GREEN BUILDING TECHNOLOGIES (GBT)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	1	-	-	2	3	2	3	1	-	1	1	2
CO2	1	-	1	1	1	2	3	1	2	1	1	1	1	2
CO3	3	2	3	2	3	3	3	2	3	1	2	2	2	3
CO4	3	3	2	3	2	2	3	2	1	-	1	2	2	2
CO5	2	1	-	-	-	2	2	1	2	-	2	1	-	-
Average	2	2	2	2	2	2	3	2	2	1	2	1	2	2

BASIC AUTOMOBILE ENGINEERING (BAE)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	1	2	-	-	-	-	-	-	-	1	-	2



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CO2	2	1	1	2	-	-	-	-	-	-	-	1	-	2
CO3	3	2	2	2	-	-	-	-	-	-	-	1	-	3
CO4	2	1	1	3	-	-	-	-	-	-	-	2	-	2
CO5	2	1	1	3	-	-	3	2	-	-	-	2	-	2
Average	2	1	1	3	-	-	3	2	-	-	-	1	-	2

MATERIAL SCIENCE ENGINEERING (MSE)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	-	3	1	-	-	-	-	-	-	1	2	-
CO2	3	1	-	2	2	-	-	-	-	-	-	1	2	-
CO3	3	2	-	2	2	-	-	-	-	-	-	1	3	-
CO4	2	2	-	3	1	-	-	-	-	-	-	2	2	-
CO5	2	1	-	2	1	-	-	-	-	-	-	2	2	-
Average	2	2	-	2	1	-	-	-	-	-	-	1	2	-

DATA BASE MANAGEMENT SYSTEMS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2	2	2	2	2	2	2	2	2	3	2
CO2	3	2	3	3	3	2	2	2	2	2	2	2	3	3
CO3	3	3	3	3	3	3	2	2	2	2	2	2	3	2
CO4	3	3	3	3	3	3	2	2	2	2	2	2	3	3
CO5	3	3	3	3	3	3	2	2	2	2	2	2	3	3
Average	3	3	3	3	3	3	2	2	2	2	2	2	3	3

Software Engineering(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	-	3	2	2	-	2	-	3	2	3	3



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CO2	3	2	3	-	2	-	-	-	-	-	2	2	3	2
CO3	3	3	3	2	3	-	-	1	2	2	3	3	2	3
CO4	3	2	3	3	2	3	3	1	2	2	3	3	3	3
CO5	3	2	3	3	2	3	3	1	2	2	3	3	3	3
Average	3	2	3	3	2	3	3	1	2	2	3	3	3	3

FINANCIAL INSTITUTIONS AND MARKETS (FIM)

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

318.FUNDAMENTALS OF EMBEDDED SYSTEMS

(Open Elective-II)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	1	1	1		2	1	2	3	3	2
CO2	3	3	3	3	1	1	1	1	2	1	2	2	3	2
CO3	3	3	3	3	1	1	1	1	2	1	2	3	3	2
CO4	3	3	3	3	1	1	1	1	2	1	1	3	3	2
CO5	3	3	3	3	1	1	1		2	2	2	3	3	2
Average	3	3	3	3	1	1	1	1	2	1.2	1.8	2.8	3	2

319.PRINCIPLES OF COMMUNICATIONS



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(Open Elective-II)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	2	2	1	3	3	3	3	3	3
CO2	3	3	2	2	3	2	1	2	3	3	3	3	3	3
CO3	3	3	3	3	3	3	2	1	3	3	3	2	3	3
CO4	3	3	2	3	3	2	1	3	3	3	3	2	3	3
CO5	3	3	3	2	3	2	1	1	3	3	3	3	3	3
Average	3	3	2.6	2.6	3	2.2	1.4	1.6	3	3	3	3	3	3

320. Personality Development and Behavioral Skills

(CSE, IT & ECE)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	-	-	-	-	-	-	2	-	3	-	3	3	3
CO2	2	-	-	-	-	-	-	2	-	3	-	3	3	3
CO3	2	-	-	-	-	-	-	2	-	3	-	3	3	3
CO4	2	-	-	-	-	-	-	2	2	3	-	3	3	3
CO5	2	-	-	-	-	-	-	2	2	3	-	3	3	3
Average	2	-	-	-	-	-	-	2	2	3	-	3	3	3

321. MICROPROCESSOR AND MICROCONTROLLER LAB

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	3	2	2	3	3	3	3	3	3
CO2	3	3	3	3	3	3	2	1	3	3	3	3	3	3
CO3	3	3	3	3	3	3	2	2	3	3	3	3	3	3
CO4	3	3	3	3	3	3	2		3	3	3	3	3	3
CO5	3	3	3	3	3	3	2	2	3	3	3	3	3	3
Average	3	3	3	3	3	3	2	1.75	3	3	3	3	3	3



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322.DSP AND eCAD LAB

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	3	3	2	2	3	3	3	3	3	3	1
CO2	3	2	3	3	3	2	2		3	3	3	3	3	2
CO3	3	3	2	2	2	2	2	2	2	1	3	1	2	2
CO4	3	2	3	3	3	2	2	3	3	1	3	3	2	3
CO5	3	2	3	3	3	2	2		3	1	3	3	2	3
Average	3	2.2	2.6	2.8	2.8	2	2	2.67	2.8	1.8	3	2.6	2.4	2.2

IV-I

401..DIGITAL COMMUNICATIONS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	1	2	-	-	2	-	-	-	3	3
CO2	3	3	2	3	1	3	-	1	2	-	-	-	3	3
CO3	2	2	3	2	2	3	-	1	2	2	-	2	3	3
CO4	3	3	2	3	2	2	-	-	3	2	-	-	3	3
CO5	3	2	2	2	1	3	-	-	2	2	2	2	3	3
Average	3	2.6	2.4	2.6	1.4	2.6	-	1	2.2	1.2	2	2	3	3



402.EMBEDDED SYSTEM DESIGN

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	-	1	-	3	1	1	3	3	3
CO2	3	3	3	3	3	-	2	1	2	2	2	3	3	3
CO3	3	3	2	3	3	-	1	-	3	1	2	3	3	3
CO4	3	3	3	3	3	-	2	1	2	2	2	3	3	3
CO5	3	3	3	2	3	-	2	-	2	1	1	2	3	3
Average	3	3	2.8	2.8	3	-	1.6	1	2.4	1.4	1.6	2.8	3	3

403.ANTENNAS AND MICROWAVE PROPAGATION

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	3	3	-	3	-	1	2	3	1	3	2



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CO2	3	3	3	3	2	-	2	1	1	2	2	1	3	2
CO3	3	3	3	3	3	-	2	1	2	2	2	3	3	2
CO4	3	2	2	2	3	-	1	1	3	1	2	2	3	2
CO5	3	3	3	2	3	-	2	-	1	2	3	2	3	2
Average	3	2.8	2.6	2.6	2.8	-	1.8	1	1.6	1.8	2.4	1.8	3	2

404.DIGITAL IMAGE PROCESSING

(Professional Elective - 3)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	1	2	2		2	1	1	2	3	3
CO2	3	3	3	3	3	2	1	1	2	2	2	2	3	3
CO3	3	3	2	3	2	2	1	1	2	2	2	2	3	3
CO4	3	3	3	3	3	3	1	-	3	2	3	2	3	3
CO5	3	3	3	3	3	3	2	-	3	3	3	2	3	3
Average	3	3	2.8	2.8	2.4	2.4	1.4	0.4	2.4	2	2.2	2	3	3

405.TELECOMMUNICATION SWITCHING SYSTEMS AND NETWORKS

(Professional Elective - 3)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	2	1	2	2	2	1	1	1	3	3	1
CO2	3	2	3	2	1	2	2	1	1	1	1	3	3	1
CO3	3	2	3	2	1	2	2	1	1	1	1	3	3	1
CO4	3	2	3	2	1	2	2	2	1	1	1	3	3	1
CO5	3	2	3	2	1	2	2	-	1	1	1	3	3	1
Average	3	2	3	2	1	2	2	1.5	1	1	1	3	3	1

407.DSP PROCESSORS AND ARCHITECTURES

(Professional Elective - 4)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
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CO1	3	3	3	3	3	2	2	1	1	1	1	2	3	3
CO2	3	3	3	3	3	2	2	-	1	2	1	2	3	3
CO3	3	3	2	2	3	2	2	1	1	2	1	2	3	3
CO4	3	3	3	2	3	2	2	-	1	2	1	2	3	3
CO5	3	3	3	2	3	2	2	-	1	1.75	1	2	3	3
Average	3	3	3	2.4	3	2	2	-	1	1.75	1	2	3	3

409.PROGRAMMING IN MATLAB

(Professional Elective - 3)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	-	1	-	3	1	1	3	3	3
CO2	3	3	3	3	3	-	2	-	2	2	2	3	3	3
CO3	3	3	2	3	3	-	1	-	3	1	2	3	3	3
CO4	3	3	3	3	3	-	2	-	2	2	2	3	3	3
CO5	3	3	3	2	3	-	2	-	2	1	1	2	3	3
Average	3	3	2.8	2.8	3	-	1.6	-	2.4	1.4	1.6	2.8	3	3

ELEMENTS OF CIVIL ENGINEERING (ECE)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	3	3	2	2	2	2	2	3	3
CO2	3	3	3	3	3	3	3	2	3	3	2	2	3	3
CO3	3	3	3	3	3	3	3	2	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	2	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	2	2	3	3	3	3	3
Average	3	3	3	3	3	3	3	2	3	3	2	3	3	3



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INTRODUCTION TO EARTHQUAKE ENGINEERING(IEE)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	-	1	3	3	1	-	-	-	1	3	3
CO2	3	3	2	-	1	2	1	1	-	-	-	-	3	3
CO3	3	2	2	-	-	1	1	-	-	-	-	-	3	3
CO4	3	3	3	-	1	2	2	-	-	-	-	-	3	3
CO5	3	2	2	-	1	2	1	-	-	-	-	1	3	3
Average	3	2	2	-	1	2	2	1	-	-	-	1	3	3

OPTIMIZATION TECHNIQUES (OT)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	1	-	2	-	-	-	-	-	2	-	1	-
CO2	2	3	2	-	3	-	-	-	-	-	3	-	2	-
CO3	3	2	1	-	3	-	-	-	-	-	3	-	3	-
CO4	2	2	2	-	2	-	-	-	-	-	2	-	2	-
CO5	3	3	2	-	2	-	-	-	-	-	3	-	1	-
Average	2	2	2	-	2	-	-	-	-	-	3	-	2	-

MAINTENANCE AND SAFETY ENGINEERING (MSE)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	2	2	1	1	-	-	-	-	1	2	-	-	-
CO2	1	2	3	1	1	-	-	-	-	2	1	-	-	-
CO3	2	1	3	2	2	-	-	-	-	2	2	-	-	-
CO4	2	2	2	1	1	-	-	-	-	2	1	-	-	-
CO5	1	1	3	2	2	-	-	-	-	1	2	-	-	-
Average	1	2	2	1	1	-	-	-	-	1	2	-	-	-

Information Systems for Engineers(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
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CO1	3	3	3	-	3	2	2	2	2	-	3	2	-	-
CO2	3	2	3	3	2	2	-	2	-	2	2	2	-	-
CO3	3	3	3	2	3	2	3	3	2	2	3	3	-	-
CO4	3	2	3	3	2	3	3	3	2	2	3	3	-	-
CO5	3	2	3	3	2	3	3	3	2	2	3	3	-	-
Average	3	2	3	3	2	3	3	1	2	2	3	3	-	-

Web Design(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	-	3	2	2	-	2	-	3	2	-	-
CO2	3	2	3	-	2	-	-	-	-	-	2	2	-	-
CO3	3	3	3	2	3	-	-	1	2	2	3	3	-	-
CO4	3	2	3	3	2	3	3	1	2	2	3	3	-	-
CO5	3	2	3	3	2	3	3	1	2	2	3	3	-	-
Average	3	2	3	3	2	3	3	1	2	2	3	3	-	-

Fundamentals of Entrepreneurship(FE)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	3	3	2	2	2	2	2	3	3
CO2	3	3	3	3	3	3	3	2	3	3	2	2	3	3
CO3	3	3	3	3	3	3	3	2	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	2	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	2	2	3	3	3	3	3
Average	3	3	3	3	3	3	3	2	3	3	2	3	3	3



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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	3	3	2	-	2	1	2	2	3	3
CO2	3	3	3	2	3	3	2	-	1	2	3	1	3	3
CO3	3	3	2	3	3	3	2	-	1	2	3	3	3	3
CO4	3	2	3	3	3	3	2	-	1	2	1	3	3	3
CO5	3	2.75	2.75	2.5	3	3	2	-	1	1	2	2	3	3
Average	3	2.75	2.75	2.5	3	3	3	-	1.2	1.6	2.2	2.2	3	3

411.MICROWAVE ENGINEERING AND DIGITAL COMMUNICATIONS LAB

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	3	3	-	3	-	3	3	3	2	3	2
CO2	3	3	3	3	2	-	2	-	3	2	2	2	3	2
CO3	3	3	3	3	3	-	2	-	3	2	2	3	3	2
CO4	3	2	2	2	3	-	1	-	3	1	3	2	3	2
CO5	3	2	3	2	3	-	2	-	3	2	3	3	3	2
Average	3	2.6	2.6	2.6	2.8	-	1.8	-	3	2	2.6	2.4	3	2

IV-II

412.CELLULAR AND MOBILE COMMUNICATIONS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2	3	3	3	3	3	3	3	2	3	3
CO2	3	3	3	3	3	2	2	2	3	2	3	3	3	2
CO3	3	3	3	2	2	3	2	1	3	2	3	3	3	2
CO4	3	3	3	3	2	2	3	1	3	2	3	3	3	2
CO5	3	2	2	1	1	3	2	1	2	3	2	2	3	3
Average	3	2.6	2.6	2.2	2.2	2.6	2.4	1.6	2.8	2.4	2.8	2.6	3	2.4

413.COMPUTER NETWORKS



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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	1	2	-	2	3	2	2	3	2
CO2	3	2	3	3	3	1	2	-	2	2	1	1	3	2
CO3	3	3	2	3	3	1	2	-	2	2	1	2	3	2
CO4	3	3	2	3	2	2	1	-	1	2	2	1	3	2
CO5	3	3	2	3	2	2	1	-	1	2	2	1	3	1
Average	3	2.8	2.4	3	2	1.4	1	-	1	2	2	1.4	3	1.8

414.RADAR SYSTEMS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	3	1	2	2	1	1	-	-	-	2	3	2
CO2	-	-	3	1	2	2	2	1	-	1	-	2	3	2
CO3	-	-	3	1	2	2	1	1	-	1	-	2	3	2
CO4	3	3	3	1	2	2	3		-	-	-	2	3	2
CO5	-	-	3	1	2	2	1	1	-	-	-	2	3	2
Average	3	2	3	1	2	2	1.6	1	-	1	-	2	3	2



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R18 CO-PO and CO-PSO Mapping

II-I

201. MATHEMATICS-III (COMPLEX ANALYSIS AND FOURIER TRANSFORM)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	-	2	-	2	1	2	2	3	2
CO2	3	3	3	2	3	-	1	-	3	2	3	1	3	1
CO3	3	3	2	3	1	-	1	-	3	2	3	3	3	2
CO4	3	2	3	3	3	-	1	-	1	2	1	3	2	1
CO5	3	3	3	3	2	-	2	-	2	3	2	3	3	2
Average	3	2.8	2.8	2.6	2.2	-	1.4	-	2.2	2	2.2	2.4	2.8	1.6

202. OOPS Throuh JAVA

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



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CO4	3	3	3	3	3	2	1	1	3	2	1	2	3	2
CO5	3	3	3	3	3	2	1	1	3	2	1	2	3	2
Average	3	3	3	3	3	2	1	1	3	1.4	1	2	3	2

203. ELECTRONIC DEVICES AND CIRCUITS

EDC	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	1	2	-	-	2	-	-	-	3	3
CO2	3	3	2	3	1	3	-	2	2	-	-	-	3	3
CO3	2	2	2	2	1	3	-	2	2	-	-	-	3	3
CO4	2	2	2	2	1	2	-	-	2	-	-	-	3	3
CO5	3	2	2	2	1	3	-	-	2	2	-	-	3	3
Average	2.6	2.4	2.2	2.4	1	2.6	-	2	2	2	-	-	3	3

204. PROBABILITY THEORY AND STOCHASTIC PROCESS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	2	2	3	1	1	1	1	1	3	3
CO2	3	3	3	3	2	2	1	1	1	1	1	1	3	3
CO3	3	3	3	3	2	2	3		-	-	-	1	3	3
CO4	3	3	3	3	2	2	3	1	-	1	1	1	3	3
CO5	3	3	3	3	2	2	3	1	1	1	1	1	3	3
Average	3	3	3	3	2	2	2.6	1	1	1	1	1	3	3



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205. SIGNALS AND SYSTEMS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	-	1	-	1	1	1	2	3	-
CO2	3	3	3	2	3	-	1	-	3	1	1	2	3	-
CO3	3	3	3	3	3	-	1	-	1	2	1	3	3	-
CO4	3	3	3	3	3	-	1	-	1	2	1	3	3	-
CO5	3	3	2	2	2	-	1	-	2	1	1	2	3	-
Average	3	3	2.8	2.4	2.6	-	1	-	1.6	1.4	1	2.4	3	-

206. NETWORK ANALYSIS AND TRANSMISSION LINES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	3	2	-	2	2	2	3	3	2
CO2	3	3	3	2	2	3	2	-	2	2	2	3	3	2
CO3	3	3	3	2	2	3	2	-	2	2	2	3	3	2
CO4	3	3	3	2	2	3	2	-	2	2	2	3	3	2
CO5	3	3	3	2	3	3	2	-	2	2	2	3	3	2
Average	3	3	3	2	2.2	3	2	-	2	2	2	3	3	2

207. ELECTRONIC DEVICES AND CIRCUITS LAB

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	2	3	3	2	3	2	3	2	3	3



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CO3	3	3	3	2	3	2	2	2	3	2	2	2	3	3
CO4	3	3	3	3	3	3	2	2	3	3	3	3	3	3
CO5	3	3	3	3	3	2	2	1	3	2	3	2	3	3
Average	3	2.8	2.8	2.6	2.8	2.6	2.4	2	3	2.4	2.8	2.4	3	3

208. BASIC SIMULATION LAB

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	3	-	-	-	3	3	3	-	3	-
CO2	3	2	3	2	3	-	-	-	3	3	3	-	3	-
CO3	3	2	3	2	3	-	-	-	3	3	3	-	3	-
CO4	3	2	3	2	3	-	-	-	3	3	3	-	3	-
CO5	3	2	3	2	3	-	-	-	3	3	3	-	3	-
Average	3	2.2	2.8	2	3	-	-	-	3	3	3	-	3	-

II-II

210. SWITCHING THEORY AND LOGIC DESIGN

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



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CO5	3	1	3	2	3	1	-	1	1	1	3	3	3	3
Average	3	1	3	2	3	1	-	1	1	1	3	3	3	3

211.ELECTRICAL TECHNOLOGY

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	2	2	3	-	3	-	2	3	3	2
CO2	3	3	3	3	2	2	3	-	3	-	2	3	2	2
CO3	3	3	3	3	3	2	3	-	3	-	2	3	3	3
CO4	3	3	3	3	3	2	3	-	3	-	3	3	3	3
CO5	3	3	3	3	3	2	3	-	3	-	3	3	3	3
Average	3	3	3	3	2.6	2	3		3		2.4	3	2.8	2.6

212.ANALOG AND DIGITAL COMMUNICATIONS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	1	2	1	2	2	-	-	-	3	3
CO2	3	3	2	3	1	3		1	2	-	-	-	3	3
CO3	2	2	3	2	1	3	1	-	2	-	-	-	3	3
CO4	2	2	2	2	1	2		2	2	-	-	1	3	3
CO5	3	2	2	2	1	3		-	2	2	-	1	3	3
Average	2.6	2.4	2.4	2.4	1	2.6	1	1.6	2	2	-	1	3	3

213. ANALOG AND PULSE CIRCUITS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	1	1	1	-	1	2	3	3	3	3



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CO2	3	3	3	2	2	1	1	-	2	2	3	3	3	3
CO3	3	3	3	2	1	1	2	-	3	1	3	3	3	3
CO4	3	3	3	2	2	2	1	-	2	2	3	3	3	3
CO5	3	3	3	2	1	1	1	-	2	3	3	3	3	3
Average	3	3	3	2	1.4	1.2	1.2	-	2	2	3	3	3	3

214. ELECTROMAGNETIC WAVES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	1	1	-	3	3	1	3	3	1
CO2	3	3	3	1	1	1	1	-	2	2	1	3	3	1
CO3	3	3	3	2	2	1	2	-	3	3	1	3	3	1
CO4	3	3	3	1	2	1	1	-	2	3	1	3	3	1
CO5	3	3	3	1	2	1	1	-	3	3	1	3	3	1
Average	3	3	3	1.4	1.8	1	1.2	-	2.6	2.8	1	3	3	1

215. ANALOG AND DIGITAL COMMUNICATIONS

LAB

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	-	2	-	2	1	2	2	3	2
CO2	3	3	3	2	3	-	1	-	3	2	3	1	3	2
CO3	3	3	2	3	1	-	1	-	2	2	3	3	3	2
CO4	3	2	3	3	3	-	1	-	1	2	1	3	3	2
CO5	3	2	2	2	2	-	1	-	2	1	2	2	3	2
Average	3	2.6	2.6	2.4	2.2	-	1.2	-	2	1.6	2.2	2.2	3	2



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216. ANALOG AND PULSE CIRCUITS

LABORATORY

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	1	1	1	-	1	2	3	3	3	3
CO2	3	3	3	2	2	1	1	-	2	2	3	3	3	3
CO3	3	3	3	2	1	1		-	3	1	3	3	3	3
CO4	3	3	3	2	2	2		-	2	2	3	3	3	3
CO5	3	3	3	2	1	1		-	2	3	3	3	3	3
Average	3	3	3	2	1.4	1.2	1	-	2	2	3	3	3	3

217. ENVIRONMENTAL SCIENCE

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

III-I

301.CONTROL SYSTEMS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	2	2	1	-	-	2	2	3	3	-
CO2	3	3	3	3	2	2	1	-	-	1	2	3	3	-



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304.ANTENNA AND PROPAGATION

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

305.COMPUTER ARCHITECTURE (Professional Elective-1)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	-	2	-	2	2	2	2	3	1
CO2	3	3	3	2	3	-	2	-	3	2	3	2	3	1
CO3	3	3	2	3	1	-	3	-	3	2	3	3	3	1
CO4	3	2	3	2	3	-	2	-	2	2	2	3	3	1
CO5	3	2	2	2	2	-	2	-	2	3	2	2	3	1
Average	3	2.6	2.6	2.2	2.2	-	2.2	-	2.4	2.2	2.4	2.4	3	1

310.MICRO PROCESSORS AND MICRO CONTROLLERS LABORATORY

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
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CO1	3	3	3	3	3	3	2	-	3	3	3	3	3	3
CO2	3	3	3	3	3	3	2	-	3	3	3	3	3	3
CO3	3	3	3	3	3	3	2	-	3	3	3	3	3	3
CO4	3	3	3	3	3	3	2	-	3	3	3	3	3	3
CO5	3	3	3	3	3	3	2	-	3	3	3	3	3	3
Average	3	3	3	3	3	3	2	-	3	3	3	3	3	3

311.LINEAR & DIGITAL IC APPLICATIONS

LABORATORY

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	3	2	-	3	3	3	3	3	3
CO2	3	3	3	3	3	3	2	-	3	3	3	3	3	3
CO3	3	3	3	3	3	3	2	-	3	3	3	3	3	3
CO4	3	3	3	3	3	3	2	-	3	3	3	3	3	3
CO5	3	3	3	3	3	3	2	-	3	3	3	3	3	3
Average	3	3	3	3	3	3	2	-	3	3	3	3	3	3

312.BASIC ELECTRONIC

INSTRUMENTATION

(Open Elective

)

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



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CO2	2	2	-	-	-	3	-	-	-	-	-	-	3
CO3	3	-	3	-	-	3	-	-	-	-	-	-	2
CO4	2	-	-	-	-	3	-	-	-	-	-	-	2
CO5	2	-	-	2	-	3	-	-	-	-	-	-	2
Average	2	2	3	2	-	3	-	-	-	-	-	-	2

312.PRODUCT ENGINEERING (PE)(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	3	1	-	-	-	-	-	-	-	-	-	-
CO2	3	2	2	2	2	2	2	1	-	-	-	-	2	-
CO3	3	2	2	2	-	-	-	-	-	-	-	-	-	-
CO4	2	2	2	2	-	-	-	-	-	-	-	-	-	-
CO5	2	1	3	1	-	-	-	-	-	-	-	2	2	-
Average	2	2	2	2	2	2	2	1	-	-	-	2	2	-

312.Java Programming(Open Elective)

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



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CO3	3	3	3	3	3	2	1	1	3	1	1	2	3	2
CO4	3	3	3	3	3	2	1	1	3	2	1	2	3	2
CO5	3	3	3	3	3	2	1	1	3	2	1	2	3	2
Average	3	3	3	3	3	2	1	1	3	1.4	1	2	3	2

312.Operating Systems(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	2	--	2	2	2	2	3	3	3
CO2	3	2	1	1	1	2	2	--	1	2	1	2	3	3
CO3	3	2	2	2	2	2	--	2	2	2	2	1	3	3
CO4	3	3	3	3	3	2	2	--	2	2	2	1	3	3
CO5	3	3	3	3	3	2	1	1	1	2	2	1	3	3
Average	3	2.6	2.4	2.4	2.4	2	1.67	1.67	1.6	2	1.8	1.6	3	3

312.TOTAL QUALITY MANAGEMENT (TQM)(Open Elective)

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



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Average	2	1	2.6	2.33	2.25	2	3	1	3	2.5	1.5	3	2	2
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312.REMOTE SENSING& GIS (RS&GIS)(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	3	-	3	2	3	2	-	2	2	-	2	2	3
CO2	3	1	-	2	2	-	3	-	1	-	-	2	3	2
CO3	3	2	2	1	2	-	2	-	-	3	-	2	1	2
CO4	1	3	3	2	3	2	2	-	2	2	2	3	1	2
CO5	2	2	-	3	2	2	2	-	1	-	-	2	2	1
Average	2	2	3	2	2	2	2	-	1	2	2	2	2	2

313.Personality Development and Behavioral Skills (CSE, IT & ECE)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	-	-	-	-	-	-	2	-	3	-	3	3	3
CO2	2	-	-	-	-	-	-	2	-	3	-	3	3	3
CO3	2	-	-	-	-	-	-	2	-	3	-	3	3	3
CO4	2	-	-	-	-	-	-	2	2	3	-	3	3	3
CO5	2	-	-	-	-	-	-	2	2	3	-	3	3	3
Average	2	-	-	-	-	-	-	2	2	3	-	3	3	3



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314.MANAGERIAL ECONOMICS & AND FINANCIAL ANALYSIS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	2	2	3	-	3	-	-	1	-	3	2	-	-
CO2	-	3	3	3	2	-	-	-	-	-	3	1	-	-
CO3	-	-	2	-	2	-	-	-	3	-	2	-	-	-
CO4	-	-	-	-	-	1	2	1	-	-	2	-	-	-
CO5	-	-	-	-	v	-	-	-	-	3	3	-	-	-
Average	-	2.5	2.3	3	2	2	2	1	2	3	2.66	1.5	-	-

315.DIGITAL SIGNAL PROCESSING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	3	2	-	-	-	1	2	1	2	3	1
CO2	3	3	3	3	2	-	-	-	2	1	1	1	3	1
CO3	3	3	2	2	3	-	-	-	2	1	1	1	3	1
CO4	3	3	3	3	3	-	-	-	2	2	1	2	3	1
CO5	3	2	2	3	3	-	-	-	2	2	1	1	3	1
Average	3	2.8	2.4	2.8	2.6	-	-	-	1.8	1.6	1	1.4	3	1

316.MICROWAVE ENGINEERING

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



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CO4	3	2	2	2	3	-	1	-	3	1	3	2	3	2
CO5	3	2	3	2	3	-	2	-	1	2	3	3	3	2
Average	3	2.6	2.6	2.6	2.8	-	1.8	-	1.6	2	2.6	2	3	2

317.DATA COMMUNICATION AND NETWORKS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	1	2	-	2	3	2	2	3	-
CO2	3	2	3	3	3	1	2	-	2	2	1	1	3	-
CO3	3	3	2	3	3	1	2	2	2	2	1	2	3	-
CO4	3	3	2	3	2	2	1	1	1	2	2	1	3	-
CO5	3	3	2	3	2	2	1	-	1	2	2	1	3	-
Average	3	2.8	2.4	3	2	1.4	1.6	-	1.6	2.2	1.6	1.4	3	-

318.DIGITAL SIGNAL PROCESSORS AND ARCHITECTURES

(Professional Elective-2)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	2	2	-	1	1	1	2	3	3
CO2	3	3	3	3	3	2	2	-	1	2	1	2	3	3
CO3	3	3	2	2	3	2	2	-	1	2	1	2	3	3
CO4	3	3	3	2	3	2	2	-	1	2	1	2	3	3
CO5	3	3	3	2	3	2	2	-	1	1.75	1	2	3	3
Averag	3	3	3	2.4	3	2	2	-	1	1.75	1	2	3	3



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319.ENVIRONMENT POLLUTION & CONTROL METHODS (EPCM)(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	-	-	-	2	2	1	-	1	-	1	-	2
CO2	2	-	1	2	2	1	1	1		1		1	-	3
CO3	1	2	3	1	-	1	1	-	-	1	-	-	-	2
CO4	2	1	-	-	-	1	1	-	1	-	-	-	-	1
CO5	1	-	1	-	-	1	1	1	-	1	-	1	-	2
Average	2	2	2	2	2	1	1	1	1	1	-	1	-	2

319.GREEN BUILDING TECHNOLOGIES (GBT)(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	1	-	-	2	3	2	3	1	-	1	1	2
CO2	1	-	1	1	1	2	3	1	2	1	1	1	1	2
CO3	3	2	3	2	3	3	3	2	3	1	2	2	2	3
CO4	3	3	2	3	2	2	3	2	1	-	1	2	2	2
CO5	2	1	-	-	-	2	2	1	2	-	2	1	-	-
Average	2	2	2	2	2	2	3	2	2	1	2	1	2	2

319.BASIC AUTOMOBILE ENGINEERING (BAE)(Open Elective)



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CO3	3	3	3	3	3	3	2	2	2	2	2	2	2	3	2
CO4	3	3	3	3	3	3	2	2	2	2	2	2	2	3	3
CO5	3	3	3	3	3	3	2	2	2	2	2	2	2	3	3
Average	3	3	3	3	3	3	2	2	2	2	2	2	2	3	3

319. Software Engineering (Open Elective)

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

319. FINANCIAL INSTITUTIONS AND MARKETS (FIM) (Open Elective)

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



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320.DIGITAL SIGNAL PROCESSING LABORATORY

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	3	-	-	3	2	3	3	3	3
CO2	3	3	3	3	3	3	-	-	3	2	3	3	3	3
CO3	3	3	3	3	3	3	-	-	3	2	3	3	3	3
CO4	3	3	3	3	3	3	-	-	3	2	3	3	3	3
CO5	3	3	3	3	3	3	-	-	3	2	3	3	3	3
Average	3	3	3	3	3	3	-	-	3	2	3	3	3	3

321.ADVANCED COMMUNICATION SKILLS LAB

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	-	-	-	-	-	-	-	-	3	-	3	3	3
CO2	-	-	-	-	-	-	-	-	-	3	-	3	3	3
CO3	-	-	-	-	-	-	-	-	-	3	-	3	3	3
CO4	-	-	-	-	-	-	-	-	2	3	-	3	3	3
CO5	-	-	-	-	-	-	-	-	2	3	-	3	3	3
Average	-	-	-	-	-	-	-	-	2	3	-	3	3	3

322.QUANTITATIVE METHODS & LOGICAL REASONING

(From Training and Placement
Dept.)



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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	2	-	2	-	2	1	2	2	3	2
CO2	3	3	3	2	3	-	1	-	3	2	3	1	3	1
CO3	3	3	2	3	1	-	1	-	3	2	3	3	3	2
CO4	3	2	3	3	3	-	1	-	1	2	1	3	2	1
CO5	3	3	3	3	2	-	2	-	2	3	2	3	3	2
Average	3	2.8	2.8	2.6	2.2		1.4		2.2	2	2.2	2.4	2.8	1.6

IV-I

401.EMBEDDED SYSTEM DESIGN

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	-	1	-	3	1	1	3	3	3
CO2	3	3	3	3	3	-	2	-	2	2	2	3	3	3
CO3	3	3	2	3	3	-	1	-	3	1	2	3	3	3
CO4	3	3	3	3	3	-	2	-	2	2	2	3	3	3
CO5	3	3	3	2	3	-	2	-	2	1	1	2	3	3
Average	3	3	2.8	2.8	3	-	1.6	-	2.4	1.4	1.6	2.8	3	3

402.VLSI DEISGN

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



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CO4	3	2	3	1	2	-	1	-	1	1	1	2	3	3
CO5	3	3	3	3	3	-	2	-	3	1	1	3	3	3
Average	3	2.2	2.6	1.8	1.8	-	1.8	-	2.4	1	1.4	3	3	3

403.DIGITAL IMAGE

PROCESSING

(Professional Elective-
3)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	2	1	2	1	-	2	1	1	2	3	3
CO2	3	3	3	2	2	2	1	-	2	2	2	2	3	3
CO3	3	3	3	3	3	3	1	-	2	2	2	2	3	3
CO4	3	3	3	3	3	3	1	-	2	2	3	2	3	3
CO5	3	3	3	3	3	3	2	-	2	3	3	3	3	3
Average	3	3	3	2.6	2.4	2.6	1.2	-	2	2	2.2	2.2	3	3

404.CELLULAR AND MOBILE

COMMUNICATIONS

(Professional Elective-
3)

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



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Average	3	2.6	2.6	2.2	2.2	2.6	2.4	1.6	2.8	2.4	2.8	2.6	3	2.4
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405.RADAR ENGINEERING (Professional Elective- 3)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	3	1	2	2	1	1	-	-	-	2	3	2
CO2	-	-	3	1	2	2	2	1	-	1	-	2	3	2
CO3	-	-	3	1	2	2	1	1	-	1	-	2	3	2
CO4	3	3	3	1	2	2	3	-	-	-	-	2	3	2
CO5	-	-	3	1	2	2	1	1	-	-	-	2	3	2
Average	1.2	0.8	3	1	2	2	0.4	0.8	-	0.4	-	2	3	2

407.SATELLITE COMMUNICATIONS (Professional Elective- 4)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	2	1	2	2	-	1	1	1	3	3	1
CO2	3	2	3	2	1	2	2	-	1	1	1	3	3	1
CO3	3	2	3	2	1	2	2	-	1	1	1	3	3	1
CO4	3	2	3	2	1	2	2	-	1	1	1	3	3	1
CO5	3	2	3	2	1	2	2	-	1	1	1	3	3	1
Average	3	2	3	2	1	2	2	-	1	1	1	3	3	1

408.TELECOMMUNICATION SWITCHING SYSTEMS AND



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NETWORKS

(Professional Elective-4)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	2	1	2	2	-	1	1	1	3	3	1
CO2	3	2	3	2	1	2	2	-	1	1	1	3	3	1
CO3	3	2	3	2	1	2	2	-	1	1	1	3	3	1
CO4	3	2	3	2	1	2	2	-	1	1	1	3	3	1
CO5	3	2	3	2	1	2	2	-	1	1	1	3	3	1
Average	3	2	3	2	1	2	2	-	1	1	1	3	3	1

409.ELEMENTS OF CIVIL ENGINEERING

(ECE)(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	3	3	2	2	2	2	2	3	3
CO2	3	3	3	3	3	3	3	2	3	3	2	2	3	3
CO3	3	3	3	3	3	3	3	2	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	2	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	2	2	3	3	3	3	3
Average	3	3	3	3	3	3	3	2	3	3	2	3	3	3

409.INTRODUCTION TO EARTHQUAKE

ENGINEERING(IEE)(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
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CO1	3	2	1	-	1	3	3	1	-	-	-	1	3	3
CO2	3	3	2	-	1	2	1	1	-	-	-	-	3	3
CO3	3	2	2	-	-	1	1	-	-	-	-	-	3	3
CO4	3	3	3	-	1	2	2	-	-	-	-	-	3	3
CO5	3	2	2	-	1	2	1	-	-	-	-	1	3	3
Average	3	2	2	-	1	2	2	1	-	-	-	1	3	3

409.OPTIMIZATION TECHNIQUES (OT)(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	1	-	2	-	-	-	-	-	2	-	1	-
CO2	2	3	2	-	3	-	-	-	-	-	3	-	2	-
CO3	3	2	1	-	3	-	-	-	-	-	3	-	3	-
CO4	2	2	2	-	2	-	-	-	-	-	2	-	2	-
CO5	3	3	2	-	2	-	-	-	-	-	3	-	1	-
Average	2	2	2	-	2	-	-	-	-	-	3	-	2	-

409.MAINTENANCE AND SAFETY ENGINEERING (MSE)(Open Elective)

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



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CO4	2	2	2	1	1	-	-	-	-	2	1	-	-	-
CO5	1	1	3	2	2	-	-	-	-	1	2	-	-	-
Average	1	2	2	1	1	-	-	-	-	1	2	-	-	-

409.Information Systems for Engineers(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	-	3	2	2	2	2	-	3	2	-	-
CO2	3	2	3	3	2	2	-	2	-	2	2	2	-	-
CO3	3	3	3	2	3	2	3	3	2	2	3	3	-	-
CO4	3	2	3	3	2	3	3	3	2	2	3	3	-	-
CO5	3	2	3	3	2	3	3	3	2	2	3	3	-	-
Average	3	2	3	3	2	3	3	1	2	2	3	3	-	-

409.Web Design(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	-	3	2	2	-	2	-	3	2	-	-
CO2	3	2	3	-	2	-	-	-	-	-	2	2	-	-
CO3	3	3	3	2	3	-	-	1	2	2	3	3	-	-
CO4	3	2	3	3	2	3	3	1	2	2	3	3	-	-
CO5	3	2	3	3	2	3	3	1	2	2	3	3	-	-
Average	3	2	3	3	2	3	3	1	2	2	3	3	-	-



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409.Fundamentals of Entrepreneurship(FE)(Open Elective)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	3	3	3	3	3	2	2	2	2	2	3	3
CO2	3	3	3	3	3	3	3	2	3	3	2	2	3	3
CO3	3	3	3	3	3	3	3	2	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	2	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	2	2	3	3	3	3	3
Average	3	3	3	3	3	3	3	2	3	3	2	3	3	3

410.EMBEDDED& VLSI LABORATORY

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	1	1	3	-	1	-	3	1	3	1	3	3
CO2	3	1	3	1	2	-	1	-	3	1	2	2	3	3
CO3	3	3	3	2	3	-	1	-	3	1	3	3	3	3
CO4	3	3	3	1	3	-	1	-	3	1	3	3	3	3
CO5	3	3	3	2	3	-	1	-	1	1	3	3	3	3
Average	3	2.6	2.6	1.4	2.8	--	1	-	2.6	1	2.8	2.4	3	3

411.ANTENNA AND MICROWAVE ENGINEERING LABORATORY

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	3	3	1	3	-	3	3	3	2	3	2
CO2	3	3	3	3	2	1	2	2	3	2	2	2	3	2



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CO3	3	3	3	3	3	1	2	3	3	2	2	3	3	2
CO4	3	2	2	2	3	1	1	2	3	1	3	2	3	2
CO5	3	2	3	2	3	1	2	-	3	2	3	3	3	2
Average	3	2.6	2.6	2.6	2.8	1	1.8	-	3	2	2.6	2	3	2

IV-II

412.ELECTRONIC MEASUREMENTS AND INSTRUMENTATION

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	1	2	2	2	2	-	3	2	2	3	3	2
CO2	3	2	1	1	1	1	2	-	3	1	3	3	3	3
CO3	3	2	3	1	2	1	2	-	3	2	2	3	3	2
CO4	3	1	2	2	3	2	2	-	2	2	3	3	3	3
CO5	3	2	2	3	2	3	2	-	2	2	3	3	3	2
Average	3	1.8	1.8	1.8	2	1.8	2	-	2	1.8	2	3	3	2.4

413.WIRELESS COMMUNICATIONS AND NETWORKS

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	3	2	1	-	-	-	-	1	-	2	3	2
CO2	1	1	3	2	1	2	1	-	-	1	1	2	3	2
CO3	1	1	3	2	1	1	1	-	-	1	1	1	3	2
CO4	1	1	3	2	1	1	1	1	-	1	1	-	3	2
CO5	1	1	3	2	1	-	1	1	-	1	1	-	3	2
Average	1.4	1	3	2	1	0.8	0.8	0.4	-	1	0.8	1	3	2



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