



CMR ENGINEERING COLLEGE

UGC AUTONOMOUS

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DEPARTMENT OF ELECTRONICS AND ENGINEERING

Mapping of CO's with PO's and PSO's

Course Name: Mathematics I (MI) (C101)

Course Outcome (CO)-Program Outcome (PO) Matrix

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101.1	3	3	2	2	-	-	-	-	-	-	-	-
C101.2	3	3	2	2	-	-	-	-	-	-	-	-
C101.3	3	3	2	2	-	-	-	-	-	-	-	-
C101.4	3	3	2	2	-	-	-	-	-	-	-	-
C101.5	3	3	2	2	-	-	-	-	-	-	-	-
C101.6	3	3	2	2	-	-	-	-	-	-	-	-
AVG	3	3	2	2	-	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C101.1	-	-
C101.2	-	-
C101.3	-	-
C101.4	-	-
C101.5	-	-
C101.6	-	-
AVG	-	-

Course Name: Engineering Chemistry (EC) (C102)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO 3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C102.1	3	2	2	-	1	-	-	-	-	-	-	-
C102.2	3	2	2	-	1	-	2	-	-	-	-	-
C102.3	3	2	2	-	1	-	2	-	-	-	-	-
C102.4	3	2	2	-	1	-	2	-	-	-	-	-
C102.5	3	2	2	-	1	-	-	-	-	-	-	-
C102.6	3	2	2	-	1	-	-	-	-	-	-	-
AVG	3	2	2	-	1	-	2	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C102.1	-	-
C102.2	-	-
C102.3	-	-
C102.4	-	-
C102.5	-	-
C102.6	-	-
AVG	-	-

Course Name: Engineering Physics-I (EP-I) (C103)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C103.1	3	2	2	-	1	-	-	-	-	-	-	-
C103.2	3	2	2	-	1	-	-	-	-	-	-	-
C103.3	3	2	2	-	1	-	-	-	-	-	-	-
C103.4	3	2	2	-	1	-	-	-	-	-	-	-
C103.5	3	2	2	-	1	-	-	-	-	-	-	-
C103.6	3	2	2	-	1	-	-	-	-	-	-	-
AVG	3	2	2	-	1	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C103.1	-	-
C103.2	-	-
C103.3	-	-
C103.4	-	-
C103.5	-	-
C103.6	-	-
AVG	-	-

Course Name: Professional Communication in English (PCE) (C104)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C104.1	-	-	-	-	-	3	-	-	2	3	-	-
C104.2	-	-	-	-	-	3	-	3	2	3	-	-
C104.3	-	-	-	-	-	3	-	-	2	3	-	-
C104.4	-	-	-	-	-	3	-	-	2	3	-	-
C104.5	-	-	-	-	-	3	-	-	2	3	-	-
C104.6	-	-	-	-	-	-	-	-	2	3	-	-
AVG	-	-	-	-	-	3	-	3	2	3	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C104.1	-	-
C104.2	-	-
C104.3	-	-
C104.4	-	-
C104.5	-	-
C104.6	-	-
AVG	-	-

Course Name: Engineering Mechanics (EM) (C105)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C105.1	3	2	-	-	-	-	-	-	-	-	-	2
C105.2	3	2	-	-	-	-	-	-	-	-	-	2
C105.3	3	2	-	-	-	-	-	-	-	-	-	2
C105.4	3	2	-	-	-	-	-	-	-	-	-	2
C105.5	3	2	-	-	-	-	-	-	-	-	-	2
C105.6	3	2	-	-	-	-	-	-	-	-	-	2
AVG	3	2	-	-	-	-	-	-	-	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C105.1	-	-
C105.2	-	-
C105.3	-	-
C105.4	-	-
C105.5	-	-
C105.6	-	-
AVG	-	-

Course Name: Basic Electrical and Electronics Engineering (BEEE) (C106)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C106.1	3	2	3	2	-	-	-	-	-	-	-	2
C106.2	3	2	3	2	-	-	-	-	-	-	-	2
C106.3	3	2	3	2	-	-	-	-	-	-	-	2
C106.4	3	2	3	2	-	-	-	-	-	-	-	2
C106.5	3	2	3	2	-	-	-	-	-	-	-	2
C106.6	3	2	3	2	-	-	-	-	-	-	-	2
AVG	3	2	3	2	-	-	-	-	-	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C106.1	-	-
C106.2	-	-
C106.3	-	-
C106.4	-	-
C106.5	-	-
C106.6	-	-
AVG	-	-

**Course Name: English Language Communication Skills Lab (ELCS Lab)
(C107)**

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C107.1	-	-	-	-	3	-	1	2	3	-	-	-
C107.2	-	-	-	-	3	-	1	2	3	-	-	-
C107.3	-	-	-	-	3	-	1	2	3	-	-	-
C107.4	-	-	-	-	3	-	1	2	3	-	-	-
C107.5	-	-	-	-	-	-	1	2	3	-	-	-
C107.6	-	-	-	-	-	-	1	2	3	-	-	-
AVG	-	-	-	-	3	-	1	2	3	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C107.1	-	-
C107.2	-	-
C107.3	-	-
C107.4	-	-
C107.5	-	-
C107.6	-	-
AVG	-	-

Course Name: Engineering Workshop (EW) (C108)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C108.1	-	-	-	-	-	2	-	-	-	-	2	-
C108.2	-	-	-	-	-	2	-	-	-	-	2	-
C108.3	-	-	-	-	-	2	-	-	-	-	2	-
C108.4	-	-	-	-	-	2	-	-	-	-	2	-
AVG	-	-	-	-	-	2	-	-	-	-	2	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C108.1	-	-
C108.2	-	-
C108.3	-	-
C108.4	-	-
AVG	-	-

Course Name: Engineering Physics-II (EP)(C111)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C111.1	3	2	2	-	1	-	-	-	-	-	-	-
C111.2	3	2	2	-	1	-	-	-	-	-	-	-
C111.3	3	2	2	-	1	-	-	-	-	-	-	-
C111.4	3	2	2	-	1	-	-	-	-	-	-	-
C111.5	3	2	2	-	1	-	-	-	-	-	-	-
C111.6	3	2	2	-	1	-	-	-	-	-	-	-
AVG	3	2	2	-	1	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C111.1	-	-
C111.2	-	-
C111.3	-	-
C111.4	-	-
C111.5	-	-
C111.6	-	-
AVG	-	-

Course Name: Mathematics-II (M-II) (C112)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C112.1	3	3	2	2	-	-	-	-	-	-	-	-
C112.2	3	3	2	2	-	-	-	-	-	-	-	-
C112.3	3	3	2	2	-	-	-	-	-	-	-	-
C112.4	3	3	2	2	-	-	-	-	-	-	-	-
C112.5	3	3	2	2	-	-	-	-	-	-	-	-
C112.6	3	3	2	2	-	-	-	-	-	-	-	-
AVG	3	3	2	2	-	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C112.1	-	-
C112.2	-	-
C112.3	-	-
C112.4	-	-
C112.5	-	-
C112.6	-	-
AVG	-	-

Course Name: Mathematics III (C113)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C113.1	3	3	2	2	-	-	-	-	-	-	-	-
C113.2	3	3	2	2	-	-	-	-	-	-	-	-
C113.3	3	3	2	2	-	-	-	-	-	-	-	-
C113.4	3	3	2	2	-	-	-	-	-	-	-	-
C113.5	3	3	2	2	-	-	-	-	-	-	-	-
C113.6	3	3	2	2	-	-	-	-	-	-	-	-
AVG	3	3	2	2	-	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C113.1	-	-
C113.2	-	-
C113.3	-	-
C113.4	-	-
C113.5	-	-
C113.6	-	-
AVG	-	-

Course Name: Computer Programming in C (C114)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C114.1	2	2	3	-	3	-	-	-	-	-	-	2
C114.2	2	3	3	-	3	-	-	-	-	-	-	2
C114.3	2	3	3	-	3	-	-	-	-	-	-	2
C114.4	2	3	3	-	3	-	-	-	-	-	-	2
C114.5	2	3	3	-	3	-	-	-	-	-	-	2
C114.6	2	3	3	-	3	-	-	-	-	-	-	2
AVG	2	3	3	-	3	-	-	-	-	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C114.1	-	-
C114.2	-	-
C114.3	-	-
C114.4	-	-
C114.5	-	-
C114.6	-	-
AVG	-	-

Course Name: Engineering Graphics (EG) (C115)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C115.1	2	-	-	-	-	-	-	-	-	3	-	-
C115.2	2	-	-	-	-	-	-	-	-	3	-	-
C115.3	2	-	-	-	-	-	-	-	-	3	-	-
C115.4	2	-	-	-	-	-	-	-	-	3	-	-
C115.5	2	-	-	-	-	-	-	-	-	3	-	-
C115.6	2	-	-	-	-	-	-	-	-	3	-	-
AVG	2	-	-	-	-	-	-	-	-	3	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C115.1	-	-
C115.2	-	-
C115.3	-	-
C115.4	-	-
C115.5	-	-
C115.6	-	-
AVG	-	-

Course Name: Engineering Chemistry Lab (EC) (C116)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C116.1	3	2	2	-	1	-	-	-	-	-	-	-
C116.2	3	2	2	-	1	-	-	-	-	-	-	-
C116.3	3	2	2	-	1	-	-	-	-	-	-	-
C116.4	3	2	2	-	1	-	-	-	-	-	-	-
C116.5	3	2	2	-	1	-	-	-	-	-	-	-
C116.6	3	2	2	-	1	-	-	-	-	-	-	-
AVG	3	2	2	-	1	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C212.1	-	-
C212.2	-	-
C212.3	-	-
C212.4	-	-
C212.5	-	-
C212.6	-	-
AVG	-	-

Course Name: Engineering Physics Lab (EP Lab) (C117)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C117.1	3	2	2	-	1	-	-	-	-	-	-	-
C117.2	3	2	2	-	1	-	-	-	-	-	-	-
C117.3	3	2	2	-	1	-	-	-	-	-	-	-
C117.4	3	2	2	-	1	-	-	-	-	-	-	-
C117.5	3	2	2	-	1	-	-	-	-	-	-	-
C117.6	3	2	2	-	1	-	-	-	-	-	-	-
AVG	3	2	2	-	1	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C117.1	-	-
C117.2	-	-
C117.3	-	-
C117.4	-	-
C117.5	-	-
C117.6	-	-
AVG	-	-

Course Name: Computer Programming in C Lab (C118)

Course Outcome (CO)-Program Outcome (PO) Matrix:

COURSE CO-PO MATRIX	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C118.1	2	2	3	-	3	-	-	-	-	-	-	2
C118.2	2	3	3	-	3	-	-	-	-	-	-	2
C118.3	2	3	3	-	3	-	-	-	-	-	-	2
C118.4	2	3	3	-	3	-	-	-	-	-	-	2
C118.5	2	3	3	-	3	-	-	-	-	-	-	2
C118.6	2	3	3	-	3	-	-	-	-	-	-	2
AVG	2	3	3	-	3	-	-	-	-	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C118.1	-	-
C118.2	-	-
C118.3	-	-
C118.4	-	-
C118.5	-	-
C118.6	-	-
AVG	-	-

Course Name: Mathematics-IV (C211)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO-PO Matrix												
CO's/PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C211.1	3	3	2	2	-	-	-	-	-	-	-	-
C211.2	3	3	2	2	-	-	-	-	-	-	-	-
C211.3	3	3	2	2	-	-	-	-	-	-	-	-
C211.4	3	3	2	2	-	-	-	-	-	-	-	-
C211.5	3	3	2	2	-	-	-	-	-	-	-	-
C211.6	3	3	2	2	-	-	-	-	-	-	-	-
AVG	3	3	2	2	-	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C211.1	-	-
C211.2	-	-
C211.3	-	-
C211.4	-	-
C211.5	-	-
C211.6	-	-
AVG	-	-

Course Name: Analog Electronics (C212)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C212.1	3	3	3	2	1	-	-	-	-	-	-	2
C212.2	3	3	3	2	-	-	-	-	-	-	-	2
C212.3	3	3	3	3	3	-	-	-	-	-	-	3
C212.4	3	3	3	2	1	-	-	-	-	-	-	2
C212.5	3	3	3	2	2	-	-	-	-	-	-	2
C212.6	3	3	3	3	3	-	-	-	-	-	-	2
AVG	3	3	3	2	2	-	-	-	-	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C212.1	2	-
C212.2	3	2
C212.3	3	3
C212.4	3	3
C212.5	3	3
C212.6	2	3
AVG	3	3

Course Name: Electrical Technology (C213)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C213.1	2	1	2	-	-	-	-	-	-	-	-	-
C213.2	2	2	3	2	-	-	-	-	-	-	-	-
C213.3	3	1	2	1	-	-	-	-	-	-	-	-
C213.4	2	2	1	1	-	-	-	-	-	-	-	-
C213.5	2	2	3	2	-	-	-	-	-	-	-	-
AVG	2	2	2	2	-	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C213.1	1	1
C213.2	1	-
C213.3	1	1
C213.4	-	-
C213.5	1	1
AVG	1	1

Course Name: Signals and Stochastic Process (C214)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C214.1	3	2	1	1	2	-	-	-	-	-	-	-
C214.2	3	2	1	1	2	-	-	-	-	-	-	-
C214.3	3	2	1	1	2	-	-	-	-	-	-	-
C214.4	3	2	1	1	2	1	-	-	-	-	-	-
C214.5	3	2	1	1	2	1	-	-	-	-	-	-
AVG	3	2	1	1	2	1	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C214.1	3	2
C214.2	3	2
C214.3	3	2
C214.4	3	2
C214.5	3	2
AVG	3	2

Course Name: Network Analysis (C215)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C215.1	3	3	3	-	-	-	-	-	-	-	-	2
C215.2	3	3	3	-	-	-	-	-	-	-	-	2
C215.3	3	3	3	-	-	-	-	-	-	-	-	2
C215.4	3	3	3	-	-	-	-	-	-	-	-	2
C215.5	3	3	3	-	-	-	-	-	-	-	-	2
AVG	3	3	3	-	-	-	-	-	-	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C215.1	3	3
C215.2	3	2
C215.3	3	-
C215.4	3	2
C215.5	3	3
AVG	3	3

Course Name: Electronic Devices and Circuits Lab (C216)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C216.1	3	2	3	-	2	-	-	-	-	-	-	-
C216.2	2	2	3	2	-	-	-	-	-	-	-	-
C216.3	3	3	-	-	-	-	-	-	-	-	-	1
C216.4	2	-	-	-	3	-	-	-	-	-	-	3
C216.5	2	3	3	3	3	-	-	-	-	-	-	-
AVG	2	3	3	3	3	-	-	-	-	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C216.1	-	-
C216.2	3	2
C216.3	-	-
C216.4	3	3
C216.5	3	3
AVG	3	3

Course Name: Basic Simulation Lab (C217)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C217.1	3	3	-	3	3	-	-	-	-	-	-	-
C217.2	3	3	-	3	3	-	-	2	-	-	-	-
C217.3	3	-	3	3	-	-	-	-	2	-	-	-
C217.4	3	-	3	2	-	-	-	-	-	-	2	-
C217.5	3	-	2	-	2	-	-	-	-	2	-	-
AVG	3	3	3	3	3	-	-	2	2	2	2	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/	PSO1	PSO2
C217.1	-	3
C217.2	3	3
C217.3	3	3
C217.4	3	3
C217.5	2	3
AVG	3	3

Course Name: Basic Electrical Engineering Lab (C218)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C218.1	2	1	2	-	-	-	-	-	-	-	-	-
C218.2	2	2	3	2	-	-	-	-	-	-	-	-
C218.3	3	1	2	1	-	-	-	-	-	-	-	-
C218.4	2	2	1	1	-	-	-	-	-	-	-	-
C218.5	2	2	3	2	-	-	-	-	-	-	-	-
C218.6	2	3	2	2	-	-	-	-	-	-	-	-
AVG	2	2	3	2	-	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C218.1	1	1
C218.2	1	-
C218.3	1	1
C218.4	-	-
C218.5	1	1
C218.6	1	1
AVG	1	1

Course Name: Environmental Science and Technology (C219)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C219.1	2	-	2	-	-	2	3	2	-	-	-	-
C219.2	2	-	2	-	-	2	3	2	-	-	-	-
C219.3	2	-	2	-	-	2	3	2	-	-	-	-
C219.4	2	-	2	-	-	2	3	2	-	-	-	-
C219.5	2	-	2	-	-	2	3	2	-	-	-	-
C219.6	2	-	2	-	-	2	3	2	-	-	-	-
AVG	2	-	2	-	-	2	3	2	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C219.1	-	-
C219.2	-	-
C219.3	-	-
C219.4	-	-
C219.5	-	-
C219.6	-	-
AVG	-	-

Course Name: Switching Theory and Logic Design (C221)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C221.1	3	2	2	-	-	-	-	-	-	-	-	-
C221.2	2	2	3	-	-	-	-	-	-	-	-	-
C221.3	2	2	3	-	3	-	-	-	-	2	-	-
C221.4	2	2	3	-	3	-	-	-	-	2	-	-
C221.5	2	2	3	-	3	-	-	-	-	2	-	-
AVG	2	2	3	-	3	-	-	-	-	2	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C221.1	2	-
C221.2	2	-
C221.3	2	3
C221.4	2	3
C221.5	2	3
AVG	2	3

Course Name: Pulse and Digital Circuits (C222)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C222.1	2	2	2	3	2	-	-	-	-	-	-	-
C222.2	-	-	2	2	2	-	-	-	-	-	-	-
C222.3	-	-	2	3	2	-	2	-	-	3	-	2
C222.4	2	2	2	3	2	2	2	-	-	-	-	2
C222.5	2	2	-	-	-	-	-	-	2	-	-	2
AVG	2	2	2	3	2	2	2	-	2	3	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C222.1	3	2
C222.2	2	2
C222.3	3	3
C222.4	3	3
C222.5	3	3
AVG	3	3

Course Name: Control Systems (C223)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C223.1	2	1	2	-	-	2	-	-	-	-	-	1
C223.2	2	2	1	-	-	-	-	-	-	-	-	-
C223.3	2	2	2	2	-	1	-	-	-	-	-	1
C223.4	2	2	2	2	-	1	-	-	-	-	-	1
C223.5	2	2	2	2	-	1	-	-	-	-	-	
AVG	2	2	2	2	-	1	-	-	-	-	-	1

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C223.1	2	2
C223.2	2	2
C223.3	2	2
C223.4	2	2
C223.5	2	2
AVG	2	2

Course Name: Analog Communications (C224)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C224.1	3	3	3	2	2	2	-	1	-	-	-	2
C224.2	3	3	3	2	2	1	-	-	-	-	-	1
C224.3	3	3	3	2	3	2	-	1	-	-	-	-
C224.4	3	3	2	2	3	1	-	-	-	-	-	1
C224.5	3	2	2	2	3	1	-	1	-	-	-	1
AVG	3	3	3	2	3	1	-	1	-	-	-	1

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

Course Outcomes (CO's)	PSO1	PSO2
C224.1	3	2
C224.2	3	3
C224.3	3	2
C224.4	3	2
C224.5	3	2
AVG	3	2

Course Name: Business Economics and Financial Analysis (C225)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
C225.1	-	2	2	3	-	3	-	-	1	-	3	2
C225.2	-	3	3	3	2	-	-	-	-	-	3	1
C225.3	-	-	2	-	2	-	-	-	3	-	2	-
C225.4	-	-	-	-	-	1	2	1	-	-	2	-
C225.5	-	-	-	-	-	-	-	-	-	3	3	-
AVG	-	3	2	3	2	2	2	1	2	3	3	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C225.1	-	-
C225.2	-	-
C225.3	-	-
C225.4	-	-
C225.5	-	-
AVG	-	-

Course Name: Analog Communications Lab (C226)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C226.1	2	2	2	-	2	-	-	-	2	-	2	-
C226.2	2	3	3	-	2	-	-	-	2	-	2	2
C226.3	2	3	3	-	2	-	-	-	2	-	2	2
C226.4	2	3	3	-	2	-	-	-	2	-	2	-
C226.5	2	3	3	-	2	-	-	-	2	-	2	2
AVG	2	3	3	-	2	-	-	-	2	-	2	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C226.1	3	3
C226.2	3	3
C226.3	3	3
C226.4	3	3
C226.5	3	3
AVG	3	3

Course Name: Pulse & Digital Circuits Lab (C227)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C227.1	2	-	-	-	-	-	-	-	-	-	-	-
C227.2	2	2	1	-	2	-	-	-	-	-	2	-
C227.3	2	2	1	2	2	-	-	-	-	-	2	2
C227.4	2	-	1	-	-	-	-	-	-	-	-	-
C227.5	1	-	-	-	-	-	-	-	-	-	-	-
AVG	2	2	1	2	2	-	-	-	-	-	2	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C227.1	3	2
C227.2	3	2
C227.3	3	3
C227.4	3	3
C227.5	3	2
AVG	3	2

Course Name: Analog Electronics Lab (C228)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C228.1	3	-	3	-	3	-	-	-	-	-	3	-
C228.2	3	-	3	-	3	-	-	2	-	-	3	-
C228.3	3	3	1	-	3	-	-	-	2	2	-	-
C228.4	3	3	1	-	3	-	-	-	-	-	-	-
AVG	3	3	2		3	-	-	2	2	2	3	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C228.1	1	3
C228.2	3	3
C228.3	3	3
C228.4	-	3
AVG	2	3

Course Name: Gender Sensitization Lab (C229)

Course Name: Electromagnetic Theory and Transmission Lines (C311)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C311.1	3	2	1	1	-	-	-	-	-	-	-	-
C311.2	2	1	3	1	-	-	-	-	-	-	-	-
C311.3	1	1	1	1	-	-	-	-	1	-	-	-
C311.4	2	2	-	-	-	1	-	-	-	-	2	1
C311.5	2	1	-	-	2	1	1	-	-	-	-	-
C311.6	2	1	1	-	2	1	1	-	1	-	-	-
AVG	2	1	2	1	2	1	1	-	1	-	2	1

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C311.1	2	-
C311.2	2	-
C311.3	2	-
C311.4	1	1
C311.5	2	-
C311.6	1	1
AVG	2	1

Course Name: Linear and Digital IC Applications (C312)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	2	2	2	2	-	-	-	-	-	-	-	-
C312.2	2	2	3	2	-	-	-	-	-	-	-	-
C312.3	2	2	3	2	1	-	-	-	-	-	-	-
C312.4	2	3	3	2	2	-	-	-	-	-	-	1
C312.5	2	3	3	2	2	-	-	-	-	-	-	2
C312.6	2	3	3	2	2	-	-	-	-	-	-	2
AVG	2	3	3	2	2	-	-	-	-	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C312.1	2	-
C312.2	2	2
C312.3	2	3
C312.4	2	3
C312.5	2	3
C312.6	2	2
AVG	2	3

Course Name: Digital Communications (C313)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C313.1	3	2	2	2	2	-	-	-	-	-	-	2
C313.2	3	2	3	2	3	2	-	-	-	-	-	1
C313.3	3	3	3	2	3	2	-	-	-	-	-	2
C313.4	3	3	3	2	3	1	-	-	-	-	-	2
C313.5	3	3	3	2	3	1	-	-	-	-	-	2
AVG	3	3	3	2	3	2	-	-	-	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C313.1	3	2
C313.2	3	3
C313.3	3	3
C313.4	3	3
C313.5	3	3
AVG	3	3

Course Name: Fundamentals of Management (C314)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C314.1	-	-	-	-	-	-	-	2	2	1	3	2
C314.2	-	-	-	-	-	-	-	1	-	1	3	2
C314.3	-	-	-	-	-	-	-	2	1	1	3	1
C314.4	-	-	-	-	-	-	1	1	1	3	2	-
C314.5	-	-	-	-	-	-	-	1	-	3	3	-
AVG	-	-	-	-	-	-	1	1	1	2	3	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C314.1	-	-
C314.2	-	-
C314.3	-	-
C314.4	-	-
C314.5	-	-
AVG	-	-

Course Name: Operating Systems (C315)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C315.1	3	-	2	-	-	-	-	-	-	-	-	-
C315.2	2	2	-	-	-	-	-	-	-	-	-	-
C315.3	1	-	2	-	-	-	-	-	-	-	-	-
C315.4	3	-	2	-	-	-	-	-	-	-	-	-
C315.5	2	-	2	-	-	-	-	-	-	-	-	-
C315.6	3	-	2	-	-	-	-	-	-	-	-	-
AVG	2	2	2	-	-	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2	PSO3
C315.1	2	2	2
C315.2	-	2	-
C315.3	1	2	-
C315.4	1	2	-
C315.5	1	2	-
C315.6	2	2	-
AVG	1	2	2

Course Name: Database Management System (C316)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C316.1	1	1	2	-	-	-	-	-	-	-	-	-
C316.2	3	2	2	-	-	-	-	-	-	-	-	-
C316.3	2	2	2	-	-	-	-	-	-	-	-	-
C316.4	2	1	2	-	2	-	-	-	-	-	-	-
C316.5	2	2	2	-	-	-	-	-	-	-	-	-
AVG	2	2	2	-	2	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C316.1	1	2
C316.2	1	2
C316.3	1	2
C316.4	1	-
C316.5	-	2
AVG	1	2

Course Name: Linear IC Applications Lab (C317)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C317.1	2	2	2	2	2	-	-	-	3	-	-	2
C317.2	2	2	-	3	2	-	-	-	2	-	-	2
C317.3	2	2	2	3	2	-	-	-	2	3	-	2
C317.4	2	2	-	-	-	-	-	-	-	2	-	-
C317.5	2	2	-	-	-	-	-	-	2	-	-	2
AVG	2	2	2	3	2	-	-	-	2	3	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C317.1	3	2
C317.2	3	3
C317.3	3	3
C317.4	3	2
C317.5	3	2
AVG	3	2

Course Name: Digital IC Applications Lab (C318)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C318.1	3	3	3	-	-	-	-	-	2	-	2	2
C318.2	3	3	3	-	-	-	-	-	2	-	2	2
C318.3	3	3	3	-	-	-	-	-	2	-	2	2
C318.4	3	3	3	-	-	-	-	-	2	-	2	2
AVG	3	3	3	-	-	-	-	-	2	-	2	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C318.1	3	3
C318.2	3	3
C318.3	3	3
C318.4	3	3
AVG	3	3

Course Name: Digital Communications Lab (C319)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C319.1	3	3	3	-	-	-	-	-	2	-	2	2
C319.2	3	3	3	-	-	-	-	-	2	-	2	2
C319.3	3	3	3	-	-	-	-	-	2	-	2	2
C319.4	3	3	3	-	-	-	-	-	2	-	2	2
AVG	3	3	3	-	-	-	-	-	2	-	2	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C319.1	3	3
C319.2	3	3
C319.3	3	3
C319.4	3	3
AVG	3	3

Course Name: Professional Ethics (C31A)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C31A.1	-	-	1	2	-	3	2	2	3	2	-	3
C31A.2	-	-	-	-	-	-	-	3	-	-	-	-
C31A.3	2	1	1	2	-	2	-	3	-	-	-	-
C31A.4	2	-	-	-	-	-	2	-	3	2	-	3
C31A.5	1	1	-	-	-	3	-	3	-	-	-	-
AVG	2	1	1	2	-	3	2	3	3	2	-	3

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C31A.1	1	-
C31A.2	1	-
C31A.3	-	-
C31A.4	-	-
C31A.5	1	-
AVG	1	-

Course Name: Digital System Design (C321)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C321.1	2	2	2	2	-	-	-	-	-	-	-	-
C321.2	2	2	3	-	3	-	-	-	-	2	-	-
C321.3	2	2	2	-	-	-	-	-	-	-	-	-
C321.4	2	3	3	-	3	-	-	-	-	-	-	-
C321.5	2	3	3	2	3	-	-	-	-	-	-	-
AVG	2	3	3	2	3	-	-	-	-	2	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C321.1	3	-
C321.2	-	-
C321.3	3	-
C321.4	-	3
C321.5	3	-
AVG	3	3

Course Name: Digital Image Processing (C322)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C322.1	3	3	2	2	2	3	-	-	-	-	-	3
C322.2	3	2	3	2	2	1	-	-	-	-	-	1
C322.3	3	2	2	3	2	-	-	-	-	-	-	-
C322.4	3	2	2	2	2	-	-	-	-	-	-	2
C322.5	3	2	2	2	2	2	-	-	-	-	-	2
AVG	3	2	2	2	2	2	-	-	-	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C322.1	3	3
C322.2	3	3
C322.3	3	2
C322.4	3	2
C322.5	2	3
AVG	3	3

Course Name: Antennas and Wave Propagation (C323)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C323.1	2	1	-	-	-	-	-	-	-	-	-	-
C323.2	3	2	2	1	2	-	-	-	-	-	-	-
C323.3	3	3	3	2	3	-	1	-	1	-	3	1
C323.4	2	2	1	-	-	-	-	-	-	-	-	-
C323.5	2	2	2	-	-	-	-	-	-	-	-	-
AVG	2	2	2	2	3	-	1	-	1	-	3	1

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C323.1	2	-
C323.2	2	2
C323.3	3	3
C323.4	2	-
C323.5	2	-
AVG	2	3

Course Name: Microprocessor Microcontroller (C324)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C324.1	2	-	2	-	2	2	-	-	-	-	-	2
C324.2	3	2	3	-	3	3	-	-	-	-	2	2
C324.3	3	-	3	-	3	3	-	-	-	-	1	2
C324.4	2	2	2	-	2	2	-	-	-	-	2	2
C324.5	3	-	3	-	3	3	-	-	-	-	-	2
AVG	3	2	3	-	3	3	-	-	-	-	2	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C324.1	3	3
C324.2	3	3
C324.3	3	3
C324.4	3	3
C324.5	3	3
AVG	3	3

Course Name: Digital Signal Processing (C325)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C325.1	3	3	2	2	-	-	-	-	-	-	-	-
C325.2	3	3	3	2	-	-	-	-	-	-	-	-
C325.3	3	3	3	2	-	-	-	-	-	-	-	-
C325.4	3	3	3	2	-	-	-	-	-	-	-	-
C325.5	3	3	2	2	-	-	-	-	-	-	-	-
AVG	3	3	3	2	-	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C325.1	3	3
C325.2	3	3
C325.3	3	3
C325.4	3	3
C325.5	3	3
AVG	3	3

Course Name: Digital Signal Processing Lab (C326)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C326.1	3	3	3	2	3	-	-	-	-	-	3	-
C326.2	3	3	3	2	3	-	-	-	-	-	3	-
C326.3	3	3	3	2	3	-	-	-	-	-	3	2
C326.4	3	3	3	2	3	-	-	-	-	-	3	2
C326.5	3	3	3	2	3	-	-	-	-	-	3	2
C326.6	3	3	3	2	3	-	-	-	-	-	3	2
AVG	3	3	3	2	3	-	-	-	-	-	3	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C326 .1	3	3
C326 .2	3	3
C326 .3	3	3
C326 .4	3	3
C326 .5	3	2
C326 .6	3	2
AVG	3	3

Course Name: Microprocessors and Microcontroller Lab (C327)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C327.1	3	-	-	-	-	-	-	-	-	-	-	-
C327.2	3	3	3	-	3	3	-	-	-	-	-	3
C327.3	3	-	-	-	-	-	-	-	-	-	-	-
C327.4	3	3	3	-	3	3	-	-	-	-	-	3
C327.5	3	2	3	-	3	2	-	-	-	-	3	3
AVG	3	3	3	-	3	3	-	-	-	-	3	3

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C327.1	3	-
C327.2	3	3
C327.3	3	-
C327.4	-	-
C327.5	3	3
AVG	3	3

Course Name: Advanced English Communication Skills Lab (C328)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C328.1	-	-	-	-	-	3	-	-	3	3	3	-
C328.2	-	-	-	-	-	2	-	1	-	3	3	-
C328.3	-	-	-	-	-	3	-	3	3	3	3	-
C328.4	-	-	-	-	-	3	-	3	3	3	1	-
C328.5	-	-	-	-	-	-	-	-	3	-	-	-
AVG	-	-	-	-	-	3	-	2	3	3	3	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C328.1	-	-
C328.2	-	-
C328.3	-	-
C328.4	-	-
C328.5	-	-
C212.6	-	-
AVG	-	-

Course Name: Java Programming (C329)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C329.1	2	-	3	3	-	-	-	-	-	-	-	-
C329.2	-	3	-	3	-	-	-	-	-	-	3	-
C329.3	-	-	3	-	-	-	2	-	-	-	-	2
C329.4	3	-	3	3	-	-	-	-	-	-	-	-
C329.5	3	-	-	-	-	-	3	-	3	-	-	2
AVG	3	3	3	3			3				3	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C329.1	-	2
C329.2	2	2
C329.3	2	2
C329.4	-	-
C329.5	-	-
AVG	2	2

Course Name: Microwave Engineering (C411)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C411.1	2	2	3		-	-	-	-	-	-	-	-
C411.2	2	2	3	-	-	-	-	-	-	-	-	2
C411.3	2	2	3	-	-	-	-	-	-	-	-	2
C411.4	2	3	3	-	-	-	-	-	-	-	-	2
C411.5	2	3	2	-	-	-	-	-	-	-	-	-
C411.6	2	3	3	2	-	2	-	-	-	-	-	-
AVG	2	3	3	2	-	2	-	-	-	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C411.1	2	2
C411.2	3	2
C411.3	3	3
C411.4	3	3
C411.5	3	3
C411.6	3	3
AVG	3	3

Course Name: VLSI Design (C412)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C412.1	2	2	2	-	-	-	-	-	-	-	-	-
C412.2	2	2	3	-	-	-	-	-	-	-	-	-
C412.3	2	2	3	-	3	-	-	-	2	-	-	2
C412.4	2	3	3	-	3	-	-	-	2	-	-	-
C412.5	2	3	3	2	3	-	-	-	2	-	-	2
C412.6	2	3	3	2	3	-	-	-	2	-	-	2
AVG	2	3	3	2	3	-	-	-	2	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C412.1	2	-
C412.2	3	2
C412.3	3	3
C412.4	3	3
C412.5	3	3
C412.6	3	3
AVG	3	3

Course Name: Wireless Communications & Networks (C413)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C413.1	2	2	2	2	-	2	-	-	-	-	-	2
C413.2	2	2	2	2	-	2	-	-	-	-	-	2
C413.3	2	3	2	3	3	2	-	-	-	-	-	3
C413.4	2	3	2	3	3	3	-	-	-	-	-	3
C413.5	2	3	2	3	3	2	-	-	-	-	-	2
AVG	2	3	2	3	3	2	-	-	-	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C413.1	2	2
C413.2	2	2
C413.3	2	3
C413.4	2	3
C413.5	2	3
AVG	2	3

Course Name: Embedded System Design (C414)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C414.1	2	-	2	-	-	-	-	-	-	-	-	-
C414.2	2	-	2	2	3	-	-	-	-	-	-	-
C414.3	2	2	2	3	2	-	-	-	-	-	-	-
C414.4	2	-	3	2		-	3	-	-	2	2	-
C414.5	2	3	-	-	3		-	-	-	-	-	-
AVG	2	3	2	2	3	-	3	-	-	2	2	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C414.1	2	2
C414.2	2	2
C414.3	2	2
C414.4	3	2
C414.5	3	-
AVG	2	2

Course Name: FPGA Programming (C415)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C415.1	3	2	-	-	-	-	-	-	-	-	-	-
C415.2	3	2	2	-	-	-	-	-	-	-	-	-
C415.3	2	2	-	-	2	-	-	-	-	-	-	2
C415.4	2	3	-	-	2	-	-	-	2	-	-	-
C415.5	2	3	2	3	2	-	-	-	2	-	-	2
AVG	2	3	2	3	2	-	-	-	2	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C415.1	2	-
C415.2	3	2
C415.3	3	3
C415.4	2	3
C415.5	3	3
AVG	3	3

Course Name: Electronic Measurement and Instrumentation (C416)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO 11	PO 12
C416.1	2	2	1	-	-	-	-	-	-	-	-	-
C416.2	2	3	3	-	-	-	-	-	-	-	-	-
C416.3	2	-	-	-	-	-	-	-	-	-	-	-
C416.4	2	2	-	-	-	-	-	-	-	-	-	-
C416.5	2	2	3	-	-	-	-	-	-	-	-	-
C416.6	2	2	-	-	-	-	-	-	-	-	-	-
AVG	2	2	2	-	-	-	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

Course Outcomes (CO's)	PSO1	PSO2
C416.1	2	2
C416.2	2	2
C416.3	3	3
C416.4	2	2
C416.5	2	2
C416.6	2	2
AVG	2	2

Course Name: VLSI & ECAD Lab (C417)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C417.1	-	-	-	-	3	-	-	-	2	-	-	-
C417.2	-	-	2	2	3	-	-	-	2	-	-	-
C417.3	-	-	2	2	3	-	-	-	2	-	-	2
C417.4	-	-	2	3	3	-	-	-	2	-	-	-
AVG	-	-	2	2	3	-	-	-	2	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C417.1	2	3
C417.2	-	3
C417.3	2	3
C417.4	-	3
AVG	2	3

Course Name: Microwave Engineering Lab (C418)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C418.1	2	2	2	-	-	-	-	-	-	-	-	-
C418.2	2	2	2	-	-	-	-	-	2	-	-	-
C418.3	2	2	2	3	-	-	-	-	2	-	-	2
C418.4	2	3	2	3	-	-	-	-	2	-	-	2
C418.5	2	3	2	3	-	-	-	-	2	-	-	2
C418.6	2	3	2	3	-	-	-	-	2	-	-	2
AVG	2	3	2	3	-	-	-	-	2	-	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C418.1	2	-
C418.2	3	2
C418.3	3	3
C418.4	3	3
C418.5	3	3
AVG	3	3

Course Name: Linux Programming (C421)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C421.1	2	3	2	2	2	1	-	-	-	-	-	-
C421.2	2	3	3	1	3	1	-	-	-	-	-	-
C421.3	3	2	3	1	2	1	-	-	-	-	-	-
C421.4	3	2	2	1	3	2	-	-	-	-	-	-
C421.5	3	3	2	3	3	2	-	-	-	-	-	-
C421.6	2	3	2	2	3	1	-	-	-	-	-	-
AVG	3	3	2	2	3	1	-	-	-	-	-	-

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C421.1	-	-
C421.2	-	-
C421.3	-	-
C421.4	-	-
C421.5	-	-
C421.6	-	-
AVG	-	-

Course Name: R Programming (C422)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C422.1	2			-	3	2	-	-	1	-	2	3
C422.2	3	2	-	-	3	2	-	-	-	-	1	2
C422.3	-	2	-	-	3	-	-	-		-	-	
C422.4	3	2	-	-	2	2	-	-	2	-	-	-
AVG	3	2	-	-	3	2	-	-	2	-	2	3

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C422.1	-	-
C422.2	-	-
C422.3	-	-
C422.4	-	-
AVG	-	-

Course Name: Optical Communication (C423)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
C423.1	2	2	2	-	-	-	-	-	-	-	-	-
C423.2	3	2	3	-	-	-	-	-	-	-	-	-
C423.3	2	3	3	3	2	-	-	-	2	-	2	2
C423.4	3	3	3	-	2	-	-	-	2	-	2	2
C423.5	2	3	3	2	3	-	-	-	2	-	2	2
AVG	2	3	3	3	2	-	-	-	2	-	2	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C423.1	2	-
C423.2	3	-
C423.3	3	3
C423.4	3	3
C423.5	3	3
AVG	3	3

Course Name: Global Positioning System (C424)

Course Outcome (CO)-Program Outcome (PO) Matrix:

CO's/ PO's	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C424.1	2	2	2	2	-	-	-	-	-	2	-	-
C424.2	2	2	2	2	-	-	-	-	-	2	-	-
C424.3	2	-	2	2	-	-	2	-	2	-	-	2
C424.4	2	2	-	-	2	-	-	-	-	-	-	-
C424.5	-	-	2	2	2	2	-	-	2	-	-	-
AVG	2	2	2	2	2	-	2	-	2	2	-	2

Course Outcome (CO)-Program Specific Outcome (PSO) Matrix:

CO's/ PSO's	PSO1	PSO2
C424.1	2	3
C424.2	3	2
C424.3	2	3
C424.4	2	2
C424.5	3	2
AVG	2	2