

Course Name: Optical Communication (REC-075) (2020-21)	
S.No.	Course Outcomes
Students will be able to	
1	To Understand the basic elements of optical fiber transmission link, fiber modes configurations and structures.
2	To understand the different classifications for optical fibers types, differentiate among the losses and calculate the number of guided modes in different optical fibers.
3	Description of different optical sources with calculation of various power efficiencies.
4	Description of different optical detectors with calculation of power efficiencies of various detectors.
5	Design an optical power link and analyze the power budget analysis with understanding of Homodyne and heterodyne detection.

Mapping of CO's with Bloom's Level, Target Level Bloom's						
Course	BL1	BL2	BL3	BL4	BL5	BL6
CO1	2	3	2	1		
CO2	2	3	3	3	1	
CO3	3	3	3	1		2
CO4	3	3	3	2	2	2
CO5	3	2		3	2	3
AVG.	2.6	2.8	2.2	2	1.6	2.3

Optical Communication (REC-075)

CO	PO												PSO-1	PSO-2
	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12		
CO-1	-	3	3	1	-	3	3	2	1	1	2	-	2	2
CO-2	3	3	3	1	2	1	3	-	2	3	-	-	1	3
CO-3	2	1	3	3	2	-	2	3	-	-	-	2	2	3
CO-4	3	2	-	3	2	2	-	1	-	-	-	2	2	1
CO-5	2	1	2	3	3	-	2	3	-	-	-	1	3	2

Course Name: B. Tech. (Electronics and Communication Engineering)

Course Name: Digital Signal Processing Lab (KEC-553-A)

Session:2020-21

Sem: Odd Semester 5th

S. No. :	Course Outcome
Student will be able to	
1	Understand the handling of discrete/digital signals using MATLAB/Scilab.
2	Implement and understand the basic operations of Signal processing
3	Analyse the spectral parameter of window functions
4	Design IIR, and FIR filters for band pass, band stop, low pass and high pass filters.
5	Design the signal processing algorithm using MATLAB/Scilab.

Mapping of CO's with Bloom's Level, Target Level Bloom's						
Course	BL1	BL2	BL3	BL4	BL5	BL6
CO1	3	3	2	2	3	2
CO2	1	1	3	2	2	2
CO3	1	2	1	2	1	1
CO4	3	1	2	2	2	1
CO5	2	3	1	2	2	1
AVG.	2	2	1.8	2	2	1.4

Mapping of Course outcomes with Program Outcomes															
Course:															CO wise
PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	Target Level
CO1	3	3	3	3	1	1	0	0	0	0	3	3	2	2	
CO2	3	2	3	2	2	1	0	0	0	0	2	3	3	2	

First Year

Course Name: Emerging Domain in Electronics Engineering (KEC101T/ECE201T)		
Session: 2020-21		
Semester: Odd (1 st)		
	Course Outcome	Bloom's Level
At the end of this course, the students will be able to:		
CO1	Remember and Understand the concept of PN Junction Diodes, BJT, FET and MOSFET, ICs and OPAMP, numbers systems Boolean Functions and logic gates, components of IoT, principles of sensors and fundamentals of Communication system.	BL1 & BL2
CO2	i. Apply the concept of Number system and Boolean Functions to minimise them using K-Map. ii. Analyse and implement Boolean functions using Basic and universal gates.	BL3 & BL4
CO3	i. Apply the concept of Diodes and Transistors to study rectifiers, clippers clampers, regulators and amplifiers. ii. Analyse the circuits based on diodes, BJTs and FETs.	BL3 & BL4
CO4	i. Apply the concept of OPAMP to study the operation of amplifiers, summers, differentiators, integrators etc. ii. Analyse the circuits based on OPAMPs.	BL3 & BL4
CO5	Compare and Design different types of circuits based on Diodes, Transistors and OPAMPs.	BL5

Mapping of CO's with Bloom's Level, Target Level Bloom's						
Course	BL1	BL2	BL3	BL4	BL5	BL6
CO1	3	3	-	-	-	-
CO2	2	2	3	3	-	-
CO3	2	2	3	3	-	-
CO4	2	2	3	3	-	-
CO5	1	1	2	2	3	-
AVG.	2	2	2.2	2.2	0.6	0.0

Mapping of Course outcomes with Program Outcomes																
Course:																CO wise Target Level
PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2		
CO1	3	3	3	2	2	-	-	-	-	-	-	2	1	1		
CO2	3	3	3	2	2	1	1	-	-	-	-	2	1	2		
CO3	3	3	3	2	2	1	1	-	-	-	-	3	1	2		
CO4	3	3	3	2	2	1	1	-	1	-	-	3	2	1		
CO5	2	2	2	3	3	3	3	1	2	2	2	3	1	1		

