SRM Institute of Science and Technology
College of Engineering and Technology
DEPARTMENT OF ECE

SRM Nagar, Kattankulathur – 603203, Chengalpattu District, TamilNadu

Academic Year: 2023-2024 (ODD)

Test: CLAT- 4 (Assignment – 1)
Course Code & Title: 18ECE226T – Optical Components, Systems and Networks
Year & Sem: 4th Year / 7th Sem **Max. Marks:** 20

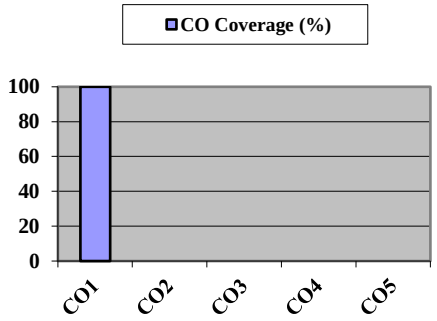
Course Articulation Matrix:

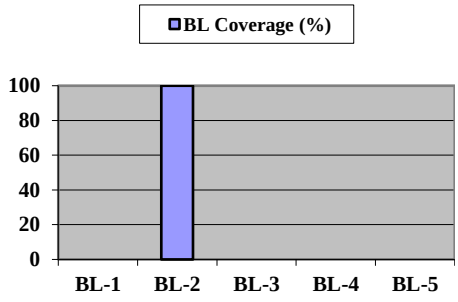
18ECE226T – Optical Components Systems and Networks			Program Outcomes (POs)													
		Learning	Graduate Attributes											PSOs		
COs	At the end of this course, learners will be able to:	Blooms Level	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO-1:	Interpret the fundamentals of light transmission through an optical fiber and their attenuation mechanisms.	3	1	2	-	3	-	-	-	-	-	-	-	-	-	-	-
CO-2:	Express the principle and operation of various display devices, light sources, amplifiers, and various problems related to optical transmitters.	2	3	2	-	-	-	-	-	-	-	-	-	-	3	-	-
CO-3:	Analyze various photodetectors with their noise performance, receiver operation, and configuration.	4	1	3	-	2	-	-	-	-	-	-	-	-	3	-	-
CO-4:	Examine the knowledge of various optical modulators and switches used in optical communication and acquaint with OEIC design	3	1	2	3	-	-	-	-	-	-	-	-	-	3	-	-
CO-5:	Implement fiber optic links based on power budgets and multichannel optical communication systems using WDM and DWDM techniques	5	-	1	2	3	-	-	-	-	-	-	-	-	-	-	3

(10 x 2 = 20 Marks)
Instructions: Answer ALL the Questions

Q. No	Question	Marks	BL	CO	PO
1	Explain in detail about the expanded beam connectors	10	2	CO1	PO1
2	List the types of fiber misalignment in optical fiber. Briefly explain about each type.	10	2	CO1	PO1

Course Outcome (CO) and Bloom's level (BL) Coverage in Questions





Approved by the Course Coordinator **Signature of the Question paper setter**

Evaluation Sheet

Name of the Student: **Register No.:**

Part- A (10 x 2= 20 Marks)					
Q. No	CO	PO	Maximum Marks	Marks Obtained	Total
1	CO1	PO1	10		
2	CO1	PO1	10		

Consolidated Marks:

CO	Maximum Marks	Marks Obtained
1	20	
Total	20	

PO	Maximum Marks	Marks Obtained
1	20	
Total	20	

Signature of the Course Teacher

Signature of the Course Coordinator **Signature of the Academic Advisor**