

LESSON PLAN

Program Name	Electronics and Communication Engineering
Course Title	Mobile and Wireless Communication
Course Code	ECPC305
Semester	5TH
Course Teacher Name	NEHA CHANDEL

Evaluation Scheme

Sr. No.	Subject Code	Subject	Study Scheme			Total Study Hours	Cr ed its	Evaluation Scheme									Total Marks
								Internal Assessment			External Assessment						
			Th	Pr	DCS			Th	Pr	Total	Th	Hrs	Pr	Hrs	Total		
1	ECPC 305	MWC	3	-	1	4	3	40	-	40	60	3	-	-	60	100	

References Books/ Study Material

1. Wireless Communications – Principles and Practice T. S. Rappaport,
2. Modern Wireless Communications Haykin & Moher, Pearson 2011

Course Outcomes (Cos)

CO-1	Explain and apply the concepts telecommunication switching, traffic and networks.
CO-2	Analyze the telecommunication traffic
CO-3	Analyze radio channel and cellular capacity

Teaching Plan

Unit No	No. of Lect. Planned	Topic to be covered	Proposed date (as per time table)	Actual Date	Remarks
1	1	Overview of Cellular Systems	10 /8/2026		
	2	Evolution 2G/3G/4G/5G	11/8/2026		
	3	Evolution 2G/3G/4G/5G	13/8/2026		
	4	Cellular Concepts – Frequency reuse, Co-channel and Adjacent channel Interference.	14 /8/2026		
	5	Cellular Concepts – Frequency reuse, Co-channel and Adjacent channel Interference.	17 /8/2026		
	6	REVISION	18/8/2026		
	7	REVISION	20/8/2026		
2	8	Wireless propagation	21 /8/2026		
	9	Link budget	24 /8/2026		
	10	Free-space path loss	25/8/2026		
	11	Noise figure of receiver	27/8/2026		
	12	Multipath fading.	28/8/2026		
	13	Multipath fading	31/8/2026		
	14	Shadowing	1/9/2026		
	15	Fading margin	3/9/2026		
	16	Shadowing margin.	7/9/2026		
	17	REVISION	8/9/2026		
	18	TEST	10/9/2026		
3	19	Antenna diversity	11/9/2026		
	20	Antenna diversity	14/9/2026		
	21	Antenna diversity	15/9/2026		
	22	Antenna diversity	17/9/2026		
	23	wireless channel capacity	18/9/2026		
	24	wireless channel capacity	21/9/2026		
	25	wireless channel capacity	22/9/2026		

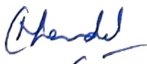
	26	Antenna diversity, wireless channel capacity and MIMO.	24/9/2026		
	27	Antenna diversity, wireless channel capacity and MIMO.	25/9/2026		
	28	Antenna diversity, wireless channel capacity and MIMO.	28/9/2026		
	29	MIMO	29/9/2026		
	30	MIMO	1/10/2026		
	31	MIMO	5/10/2026		
	32	REVISION	6/10/2026		
	33	REVISION	8/10/2026		
	34	TEST	9/10/2026		
	35	TEST	12/10/2026		
4	36	Overview of CDMA	13/10/2026		
	37	CDMA	15/10/2026		
	38	CDMA	16/10/2026		
	39	CDMA	19/10/2026		
	40	OFDM	22/10/2026		
	41	OFDM	23/10/2026		
	42	OFDM	27/10/2026		
	43	OFDM	29/10/2026		
	44	LTE	2/11/2026		
	45	LTE	3/11/2026		
	46	LTE	5/11/2026		
	47	LTE	6/11/2026		
	48	REVISION	9/11/2026		
	49	REVISION	10/11/2026		
	50	REVISION	12/11/2026		
	51	REVISION	13/11/2026		
	52	REVISION	16/11/2026		
	53	REVISION	17/11/2026		

Home Assignments

Ass. No	Contents of Syllabus Covered	Proposed date	Actual Date	Remarks
1	Unit-1&2	8/9/2026		
2	Unit-3&4	4/10/2026		
3	HOUSE TEST revision	15/11/2026		

Class /House Test

Name of Test	Syllabus Covered in Tests (Unit/Chapter Wise)	Proposed date	Actual Date	Remarks
Class Test-I	Unit-1&2	As per HPTSB Academic Calendar Schedule		
Class Test-II	Unit-3			
House Test	80% of whole syllabus			


NEHA CHANDEL
 Signature of Course Teacher with Name

Approved by

HoD Principal