

Lesson Plan / Teaching Plan / Lecture Plan with Progress : BCA - IV Semester : 2026-27

Name (Code) : Wireless Communications/ BCG-216-V **Faculty : Ms.Nisha Arora**

S. No.	Lecture No	Topic Description	Teaching Pedagogy	Reference Material
1	1	Evolution of wireless communications, examples of wireless communication systems,	PPT	Text Book/Web Source
2	2	comparison of various wireless systems.	PPT	Text Book/Web Source
3	3	Modern Wireless Communication System: Second generation cellular networks:	PPT	Text Book/Web Source
4	4	GSM	PPT	Text Book/Web Source
5	5	third generation wireless networks: CDMA,	PPT	Text Book/Web Source
6	6	Introduction to 4G wireless networks,	PPT	Text Book/Web Source
7	7	wireless in local loop,	PPT	Text Book/Web Source
8	8	wireless local area networks,	PPT	Text Book/Web Source
9	9	Bluetooth and Personal Area Networks.	PPT	Text Book/Web Source
10	10	Spectrum Allocation,	PPT	Text Book/Web Source
11	11	Basic cellular Systems,	PPT	Text Book/Web Source
12	12	performance criteria,	PPT	Text Book/Web Source
13	13	Operation of Cellular systems,	PPT	Text Book/Web Source
14	14	Analogcellular systems,	PPT	Text Book/Web Source
15	15	Digital cellular Systems.	PPT	Text Book/Web Source
16	16	Cellular System Design Fundamentals: Frequency Reuse,	PPT	Text Book/Web Source
17	17	channel assignment strategies,	PPT	Text Book/Web Source
18	18	hand off strategies (MAHO, MCHO, NCHO),	PPT	Text Book/Web Source
19	19	Interference and system capacity,	PPT	Text Book/Web Source
20	20	tracking and grade off service,	PPT	Text Book/Web Source
21	21	improving coverage and capacity: Cell splitting,	PPT	Text Book/Web Source
22	22	Cell sectoring,	PPT	Text Book/Web Source
23	23	Zone concepts.	PPT	Text Book/Web Source
24	24	Introduction to Multiple Access,	PPT	Text Book/Web Source
25	25	FDMA,	PPT	Text Book/Web Source
26	26	TDMA,	PPT	Text Book/Web Source
27	27	spread Spectrum multiple Access,	PPT	Text Book/Web Source
28	28	space division multipleaccess,	PPT	Text Book/Web Source
29	29	packet ratio,	PPT	Text Book/Web Source
30	30	capacity of a cellular systems.	PPT	Text Book/Web Source
31	31	Difference between wireless and fixed telephone networks,	PPT	Text Book/Web Source
32	32	development of wireless networks,	PPT	Text Book/Web Source
33	33	fixed network transmission hierarchy,	PPT	Text Book/Web Source
34	34	traffic routing in the wireless network,	PPT	Text Book/Web Source
35	35	wireless data services,	PPT	Text Book/Web Source

36	36	common channel signaling,	PPT	Text Book/Web Source
37	37	ISDN	PPT	Text Book/Web Source
38	38	Advanced Intelligent Networks.	PPT	Text Book/Web Source