

**Course wise Teaching Plan for Session : Summer 2019****Course : COMMUNICATION ELECTRONICS****Faculty : rupali.patil@raisoni.net - RUPALI BAPURAO PATIL**

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	UNIT1:Base Band Signals and their bandwidth requirements, RF Bands,	03/12/2018	BECL207	A
1	1	Syllabus Discussion, Discussion on course objective & course outcome Introduction to Analog Communication	04/12/2018	BECL207	A
1	2	Block Schematic of Communication System, Mechanism of Propagations:	06/12/2018	BECL207	A
1	3	Base Band Signals and their bandwidth requirements, RF Bands,	07/12/2018	BECL207	A
1	2	UNIT1:Carrier signals,	10/12/2018	BECL207	A
1	4	Carrier signals, Concept of Radiation and Electromagnetic waves,	11/12/2018	BECL207	A
1	5	Ground Wave, Sky Wave, Space Wave, Concept of Fading and diversity reception.	13/12/2018	BECL207	A
2	6	Generation of AM (DSBFC) and its spectrum ,	14/12/2018	BECL207	A
2	3	UNIT2:Generation of AM (DSBFC) and its spectrum ,	17/12/2018	BECL207	A
2	7	AM Modulators (DSBFC & DSBSC) & power calculations ,	18/12/2018	BECL207	A
2	8	modulation index, SSB modulation ,	20/12/2018	BECL207	A
2	9	SSB-SC modulation,	21/12/2018	BECL207	A
2	4	UNIT2:AM Modulators (DSBFC & DSBSC) & power calculations ,	24/12/2018	BECL207	A
2	10	AM demodulators,	27/12/2018	BECL207	A
2	11	Block Diagram of AM Receiver,	28/12/2018	BECL207	A
2	5	UNIT2: modulation index ,PROBLEMS BASED ON AM	07/01/2019	BECL207	A
2	12	AM Detection methods.	08/01/2019	BECL207	A
3	19	Slope detector,	08/01/2019	BECL207	A
3	6	UNIT3:Angle modulation, Narrow band & wide band FM,	14/01/2019	BECL207	A
3	13	Angle modulation, Narrow band & wide band FM,	15/01/2019	BECL207	A
3	20	Balanced Slope detector etc.	15/01/2019	BECL207	A



G H RAISONI COLLEGE OF ENGINEERING AND MANAGEMENT WAGHOLI PUNE

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3	14	Modulation index, Bandwidth frequency modulation spectrum,	17/01/2019	BECL207	A
4	21	Introduction to Sampling, Sampling theorem,	17/01/2019	BECL207	A
3	15	Bessel's Function and its mathematical analysis,	18/01/2019	BECL207	A
4	22	Nyquist criteria, sampling Techniques,	18/01/2019	BECL207	A
3	7	UNIT3: Modulation index, Bandwidth frequency modulation spectrum, Problems on FM and PM	21/01/2019	BECL207	A
3	16	Phase Modulation, Generation of FM (Direct Method),	22/01/2019	BECL207	A
4	8	UNIT4:sampling theorem,	28/01/2019	BECL207	A
3	17	Phase Modulation, Generation of FM (Indirect Method),	29/01/2019	BECL207	A
4	23	Types of sampling- ideal, natural,	29/01/2019	BECL207	A
3	18	FM transmitters, FM detection using Phase lock loop(PLL) ,	31/01/2019	BECL207	A
4	24	Types of sampling- flat top, Aliasing & Aperture effect.	31/01/2019	BECL207	A
4	9	UNIT4:Nyquist criteria,	04/02/2019	BECL207	A
4	25	PAM, PWM & PPM.	05/02/2019	BECL207	A
5	26	Frequency Division multiplexing, Time Division Multiplexing.	07/02/2019	BECL207	A
5	27	Introduction to Digital multiplexers	08/02/2019	BECL207	A
5	10	UNIT5: Digital multiplexer, PCM, DM	11/02/2019	BECL207	A
5	28	Digital multiplexers and their classification,	12/02/2019	BECL207	A
5	29	Introduction to PCM,	14/02/2019	BECL207	A
5	30	Delta modulation,	15/02/2019	BECL207	A
5	31	ADPCM	22/02/2019	BECL207	A
6	11	UNIT6: PSK, FSK, QPSK	25/02/2019	BECL207	A
6	32	PSK,	26/02/2019	BECL207	A
6	33	FSK,	28/02/2019	BECL207	A



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6	34	QPSK,	05/03/2019	BECL207	A
6	35	MSK, and DPSK.	07/03/2019	BECL207	A
6	36	Advance topics on the subject	08/03/2019	BECL207	A