



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Winter 2017

Course : Electronic Devices & Circuits

Faculty : T DEOTALE

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction to CO, PO, PEO, TAE, CAE	18/08/2017	BECL201	C
1	2	PN Junction Diode	18/08/2017	BECL201	C
1	3	Derivation of Diode Current Equation, Dynamic Resistance, Temperature dependence of diode current and other parameters	19/08/2017	BECL201	C
1	4	Avalanche and Zener Break Down, Photo Diode	21/08/2017	BECL201	C
1	5	LED's, LCD's, Varactor Diode	21/08/2017	BECL201	C
1	6	Half wave rectifiers with filters	23/08/2017	BECL201	C
1	7	full wave rectifiers with filters, TAE-1	26/08/2017	BECL201	C
2	8	Theory of operation BJT	28/08/2017	BECL201	C
2	9	Break down voltages, Current voltage, Power Limitations	28/08/2017	BECL201	C
2	10	Ebers-moll Model, Continuity Equation	30/08/2017	BECL201	C
2	11	CE, CB, CC Classification and Characteristics, Biasing BJT	05/09/2017	BECL201	C
2	12	Different Biasing arrangement, Stability factor	05/09/2017	BECL201	C
2	13	Different Biasing arrangement, Stability factor	06/09/2017	BECL201	C
2	14	Thermal runaway, Power Transistors, Small Signal Analysis,	08/09/2017	BECL201	C
2	15	Small Signal Analysis	08/09/2017	BECL201	C
2	16	Regulators: Design of Shunt & Series regulators	09/09/2017	BECL201	C
2	17	Introduction to SMPS, TAE-2	12/09/2017	BECL201	C
3	18	UNIT III : FEEDBACK AMPLIFIERS & OSCILLATORS	12/09/2017	BECL201	C
3	19	Analysis of Voltage Series Feedback Amplifier	13/09/2017	BECL201	C



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Unit	Topic Code	Topic Covered	Date	Course	Section
3	20	Classification of oscillators, Stability of oscillators, Bark Hausen Criteria, Design of RC Oscillators	15/09/2017	BECL201	C
3	21	Class A Power Amplifier Analysis(Series Fed and Transformer Coupled)	15/09/2017	BECL201	C
3	22	Design of LC Oscillators, Design of Crystal Oscillators.	16/09/2017	BECL201	C
4	23	UNIT IV :Power Amplifiers :Classification A, B, AB, C, Efficiency	19/09/2017	BECL201	C
4	24	Class A Power Amplifier Analysis(Series Fed and Transformer Coupled), Harmonic Distortion in amplifier	19/09/2017	BECL201	C
4	25	Class A Power Amplifier Analysis(Series Fed and Transformer Coupled), Harmonic Distortion in amplifier	20/09/2017	BECL201	C
4	26	Second Harmonic Distortion, TAE-3	22/09/2017	BECL201	C
4	27	Push Pull Class B Power Amplifier, Complementary Symmetry pair	22/09/2017	BECL201	C
4	28	Cross over Distortion	23/09/2017	BECL201	C
4	29	Class AB power amplifier, removal of crossover distortion	26/09/2017	BECL201	C
4	30	Guest Lecture by External Expert -TAE-7	26/09/2017	BECL201	C
5	31	UNIT V : Unipolar Devices :Field Effect Transistor, MOSFET, NMOS, PMOS	27/09/2017	BECL201	C
5	32	Principles of operation and characteristics,	29/09/2017	BECL201	C
5	33	Biasing arrangement of FETs, introduction to small signal analysis	29/09/2017	BECL201	C
5	34	Biasing arrangement of MOSFETs	30/09/2017	BECL201	C
5	35	UNIT VI :CMOS Circuits: An introduction to CMOS Diode ,	03/10/2017	BECL201	C
6	36	MOSFET Switches, Transmission Gate	03/10/2017	BECL201	C
6	37	Inverter - DC, AC Analysis.CMOS NAND/NOR Gates	04/10/2017	BECL201	C



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Course wise Teaching Plan for Session : Winter 2017

Course : NETWORK THEORY

Faculty : NIKITA ASHOKRAO LATARE

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction	19/08/2017	BEEL201	C
1	2	Nodal and Mesh equilibrium equation	22/08/2017	BEEL201	C
1	3	Matrix Approach	23/08/2017	BEEL201	C
1	4	supermesh and supernode	24/08/2017	BEEL201	C
1	5	Mutual Inductance	25/08/2017	BEEL201	C
2	6	Source transformation	25/08/2017	BEEL201	C
2	7	superposition theorem	26/08/2017	BEEL201	C
2	8	thevenins theorem	29/08/2017	BEEL201	C
2	9	Norton Theorem	30/08/2017	BEEL201	C
2	10	Maximum Power transfer	31/08/2017	BEEL201	C
2	11	Reciprocity	01/09/2017	BEEL201	C
2	12	Tellegens	01/09/2017	BEEL201	C
2	13	Theorem applied to AC ckt	02/09/2017	BEEL201	C
3	14	Trigonometric and exponential fourier series	05/09/2017	BEEL201	C
3	15	Discrete Spectra and symmetry of waveforms synthesis	06/09/2017	BEEL201	C
3	16	Steady state response of a network to non sinusoidal periodic inputs	07/09/2017	BEEL201	C
3	17	Fourier transform and continous spectra	08/09/2017	BEEL201	C
4	18	Partial fraction	08/09/2017	BEEL201	C
4	19	waveform synthesis	09/09/2017	BEEL201	C
4	20	Analysis of RC, RL, and RLC Networks with and without initial conditions Laplace Transforms	12/09/2017	BEEL201	C
4	21	Initial and Final Conditions	13/09/2017	BEEL201	C



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Course : NETWORK THEORY

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5	22	Transient behaviours	14/09/2017	BEEL201	C
5	23	Poles and zeroes of admittance function their properties	15/09/2017	BEEL201	C
5	24	network function	15/09/2017	BEEL201	C
5	25	sinusoidal response from pole-zero location	16/09/2017	BEEL201	C
6	26	Convolution theroem	19/09/2017	BEEL201	C
6	27	network function	20/09/2017	BEEL201	C
6	28	Two port Network Parameter inter connection	21/09/2017	BEEL201	C
6	29	Study of parallel Resonance	22/09/2017	BEEL201	C
6	30	power calculation	22/09/2017	BEEL201	C
6	31	Advaced Topic	23/09/2017	BEEL201	C
1	32	Revision	26/09/2017	BEEL201	C
2	33	Revision	27/09/2017	BEEL201	C
3	34	Revision	28/09/2017	BEEL201	C
4	35	Revision	29/09/2017	BEEL201	C
5	36	Revision	29/09/2017	BEEL201	C
6	37	Revision	30/09/2017	BEEL201	C
7	38	Revision	03/10/2017	BEEL201	C
8	39	Revision	04/10/2017	BEEL201	C
9	40	Revision	05/10/2017	BEEL201	C



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Course wise Teaching Plan for Session : Winter 2017

Course : Electrical Measurements & Instrumentation

Faculty : Mr. Prashant P. Jagtap

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction course outcome	18/08/2017	BEEL202	C
1	2	Analog & Digital instruments	21/08/2017	BEEL202	C
1	3	comparison of Analog & Digital instruments	22/08/2017	BEEL202	C
1	4	advantages of digital instruments	24/08/2017	BEEL202	C
1	5	Indicating type instruments	24/08/2017	BEEL202	C
1	6	recording type instruments	25/08/2017	BEEL202	C
1	7	recording type instrument	28/08/2017	BEEL202	C
1	8	Design of analog voltmeter ,ammeter, wattmeter	29/08/2017	BEEL202	C
2	9	General theory of AC bridges	31/08/2017	BEEL202	C
2	10	Measurement of Resistance	31/08/2017	BEEL202	C
2	12	Schering bridge	04/09/2017	BEEL202	C
2	13	D Sauty bridge	05/09/2017	BEEL202	C
2	14	Construction and working of digital LCR meter	07/09/2017	BEEL202	C
3	15	Ammeters, Voltmeters	07/09/2017	BEEL202	C
3	16	principle of moving coil	08/09/2017	BEEL202	C
3	17	moving iron & Dynamometer type instruments	11/09/2017	BEEL202	C
3	18	Measurement of active and reactive power in polyphase circuits using dynamometer type instruments.	12/09/2017	BEEL202	C
3	19	voltmeter, multimeter, wattmeter & energy meter.Design of various digit	14/09/2017	BEEL202	C
4	20	Active and passive transducers	14/09/2017	BEEL202	C
4	21	Motion Measurement: - Relative and absolute motion	15/09/2017	BEEL202	C
4	22	LVDT, piezoelectric transducers variable inductance	18/09/2017	BEEL202	C



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Unit	Topic Code	Topic Covered	Date	Course	Section
4	23	Laws of thermo - electric circuits Virtual Instrumentation using LABVIEW modern illuminations	19/09/2017	BEEL202	C
5	24	Thermocouples cold junction	22/09/2017	BEEL202	C
5	25	thermistors.	25/09/2017	BEEL202	C
5	26	flow press and PH	26/09/2017	BEEL202	C
5	27	Introduction to Hall effect Industrial instrumentation Industrial instrumentation	28/09/2017	BEEL202	C
5	28	Introduction to Hall effect Industrial instrumentation Industrial instrumentation	28/09/2017	BEEL202	C
6	29	Error in A to D conversion	29/09/2017	BEEL202	C
6	30	application in digital voltmeter	03/10/2017	BEEL202	C
6	31	application in digital voltmeter electronic frequency time period measurement	05/10/2017	BEEL202	C
6	32	Operational amplifiers (741	05/10/2017	BEEL202	C