



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 : Communication Electronics

Faculty : AKSHITA BAIWARE

Unit	Topic Code	Topic Covered	Date	Course	Section
4	12	Revision of Numericals	18/08/2017	BECL202	D
6	30	Introduction to CE	18/08/2017	BECL202	D
1	1	Numericals on Noises	25/08/2017	BECL202	D
1	1	Problems based on RMS noise voltage.	25/08/2017	BECL202	D
1	1	Introduction to Communication Electronics	26/08/2017	BECL202	D
1	1	Introduction of the course, Discussion of CO-PO	26/08/2017	BECL202	D
1	2	Introduction of communication , Baseband signals & their bandwidth requirements.	29/08/2017	BECL202	D
1	3	RF band, concept of radiation & EM Waves	30/08/2017	BECL202	D
1	4	Ground wave, space wave sky wave	31/08/2017	BECL202	D
1	2	Problems based on noise figure and SNR.	01/09/2017	BECL202	D
4	34	Revision	01/09/2017	BECL202	D
1	5	Duct, Tropospheric scatter, Extraterrestrial propagation	02/09/2017	BECL202	D
1	6	Concept of fading & diversity reception	05/09/2017	BECL202	D
1	7	AM transmitters	06/09/2017	BECL202	D
1	8	Diode modulator, collector modulator	07/09/2017	BECL202	D
2	3	Problems based on Power & Efficiency calculation of AM.	08/09/2017	BECL202	D
4	36	revision 2	08/09/2017	BECL202	D
1	9	SSB modulation	09/09/2017	BECL202	D
2	10	SSB-SC modulation	12/09/2017	BECL202	D
2	11	AM demodulators, Square law detector	13/09/2017	BECL202	D
2	12	Envelop detector,	14/09/2017	BECL202	D



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Faculty : AKSHITA BAIWARE

Unit	Topic Code	Topic Covered	Date	Course	Section
2	4	Problems based on Power & Efficiency calculation of DSB-SC & SSB-SC.	15/09/2017	BECL202	D
6	35	Revision 2	15/09/2017	BECL202	D
2	13	Detector for SSB and SSB-SC-AM signals	16/09/2017	BECL202	D
2	14	AM using transistors, AM receiver	19/09/2017	BECL202	D
2	15	AM detection methods (AGC, SSB, DSB)	20/09/2017	BECL202	D
2	16	Angle modulation	21/09/2017	BECL202	D
2	5	Problems based on Power calculation of AM, DSB-SC, SSB-SC.	22/09/2017	BECL202	D
5	38	Revision 3	22/09/2017	BECL202	D
3	17	Frequency modulation spectrum, reactance tube and FET modulators	23/09/2017	BECL202	D
3	18	Armstrong method FM transmitters	26/09/2017	BECL202	D
3	19	Frequency stabilization methods, FM discriminator	27/09/2017	BECL202	D
4	20	Foster seeley	28/09/2017	BECL202	D
3	6	Problems based on FM bandwidth, carrier swing.	29/09/2017	BECL202	D
4	37	Revision 4	29/09/2017	BECL202	D
4	21	PLL detector, stereo phonic FM	30/09/2017	BECL202	D
4	22	Superheterodyne receiver, Stereo phonic FM	03/10/2017	BECL202	D
4	23	Selectivity, fidelity, Image freq. rejection	04/10/2017	BECL202	D
4	24	Pre & de emphasis, Mixers	05/10/2017	BECL202	D
6	33	Revision 4	06/10/2017	BECL202	D
3	7	Problems based on FM power calculation.	07/10/2017	BECL202	D
4	25	Introduction to sampling, sampling theorem, sampling techniques	07/10/2017	BECL202	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Structures using C

Faculty : Ganshyam Shankarrao

Kalmegh

Unit	Topic Code	Topic Covered	Date	Course	Section
0	1	Introduction to Arrays, Linear arrays, Arrays as ADT, Representation of linear in memory	18/08/2017	BCSL201	D
0	2	Inserting & deleting, Traversing Linear Arrays, Sorting: Bubble sort,	18/08/2017	BCSL201	D
0	3	Searching: Linear search, Binary search	19/08/2017	BCSL201	D
0	4	Multidimensional arrays, Representation of Polynomials using Arrays,	19/08/2017	BCSL201	D
0	5	Record & Pointers, Pointer arrays,	23/08/2017	BCSL201	D
0	6	Dynamic memory management, Records, Record structures,	23/08/2017	BCSL201	D
0	7	Representation of records in memory, Parallel Arrays, Matrices, Sparse Matrices.	26/08/2017	BCSL201	D
0	8	Programs on Array, Sorting & searching, Introduction to Sorting, Insertion Sort, Selection Sort	26/08/2017	BCSL201	D
0	9	Merging, Merge-Sort, Shell Sort, Radix Sort, Sorting Techniques Comparison	30/08/2017	BCSL201	D
0	10	Searching and Data Modification, Hashing, Programs on Sorting & searching	30/08/2017	BCSL201	D
0	11	Introduction to linked list, Representation of linked Lists in Memory (Video Lecture),	01/09/2017	BCSL201	D
0	12	Program on Linked list, Insertion in to a linked list, Deletion from a linked list.	01/09/2017	BCSL201	D
0	13	Traversing a Linked list, Searching a linked list,	02/09/2017	BCSL201	D
0	14	Memory allocation, Garbage collection.	02/09/2017	BCSL201	D
0	15	Types of Linked list & their Use, Insertion and Deletion from a Circularly linked list.	06/09/2017	BCSL201	D
0	16	Two way lists or Doubly Linked List., Doubly Linked List Programs	06/09/2017	BCSL201	D
0	17	Exercise on Linked list , Introduction to Stacks, Array representation of stacks.	08/09/2017	BCSL201	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Structures using C

Faculty : Ganshyam Shankarrao
Kalmegh

Unit	Topic Code	Topic Covered	Date	Course	Section
0	18	Linked representation of stacks. Stacks as ADT.C41	08/09/2017	BCSL201	D
0	19	Arithmetic expression. Polish Notation. (Video Lecture)	09/09/2017	BCSL201	D
0	20	Applications of Stacks. Recursion., Towers of Hanoi, Implementation of recursive procedures by stacks.	09/09/2017	BCSL201	D
0	21	Linked Representation of Queues, Queues as ADT., Circular of Queues, Deque, Priority Queues, Applications of Queues	13/09/2017	BCSL201	D
0	22	Programs on Prefix, Postfix and Infix, Introduction to Non Linear Data Structure, Header Nodes; Binary tree , Binary Search Trees	13/09/2017	BCSL201	D
0	23	Implementation of Tree using Array & Linked List,	15/09/2017	BCSL201	D
0	24	Introduction to Binary Trees. Representing Binary Tree in Memory	15/09/2017	BCSL201	D
0	25	Searching and Inserting in Binary Search Trees, Deleting in a Binary Search Tree, Threads ,Threaded Binary Trees	16/09/2017	BCSL201	D
0	26	Traversing Binary Trees, Traversal Algorithms Using Stacks	16/09/2017	BCSL201	D
0	27	B-tree & B++ Tree, AVL Tree (Insertion & Deletion Algorithm)(Video Lecture)	20/09/2017	BCSL201	D
0	28	Balanced Binary Trees, AVL Search Trees, Insertion in an AVL Search Tree ,Deletion in an AVL Search Tree	20/09/2017	BCSL201	D
0	29	Programs on Binary Search Tree, Programs on Traversal of tree	22/09/2017	BCSL201	D
0	30	Introduction to graphs , Graph Theory,	22/09/2017	BCSL201	D
0	31	Terminology , Sequential Representation of Graphs,	23/09/2017	BCSL201	D
0	32	Adjacency Matrix; Path Matrix, Linked Representation of a Graph,	23/09/2017	BCSL201	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Structures using C

Faculty : Ganshyam Shankarrao
Kalmegh

Unit	Topic Code	Topic Covered	Date	Course	Section
0	33	Programs on Prefix, Postfix and Infix, Introduction to Non Linear Data Structure, Header Nodes; Binary tree , Binary Search Trees	27/09/2017	BCSL201	D
0	34	Operations on Graphs. Traversing a Graph,	27/09/2017	BCSL201	D
0	35	Warshall's Algorithm; Shortest Paths., Prims & Kruskals Algorithm, Programs on Shortest Path	29/09/2017	BCSL201	D
0	36	Topological Sorting,	29/09/2017	BCSL201	D
0	37	Spanning Trees,	04/10/2017	BCSL201	D
0	38	Programs on BFS and DFS	04/10/2017	BCSL201	D
0	39	Revision	06/10/2017	BCSL201	D
0	40	Revision	06/10/2017	BCSL201	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Mathematical Applications In Electronics And

Faculty : Sagar Chouhan

Communication Engineering

Unit	Topic Code	Topic Covered	Date	Course	Section
1	29	UNIT I: LAPLACE TRANSFORMS Definition and their simple properties	18/08/2017	BAML201	D
1	30	UNIT I: LAPLACE TRANSFORMS Definition and their simple properties	21/08/2017	BAML201	D
1	31	Convolution theorem	21/08/2017	BAML201	D
1	32	Applications of Laplace transforms to solve Ordinary differential equations	23/08/2017	BAML201	D
1	33	inverse lapace transform partial fraction	24/08/2017	BAML201	D
1	2	UNIT I: LAPLACE TRANSFORMS Definition and their simple properties	28/08/2017	BAML201	D
1	3	Evaluation of integrals by L.T.	30/08/2017	BAML201	D
1	4	Inverse L.T. & its properties	31/08/2017	BAML201	D
1	5	Convolution theorem	01/09/2017	BAML201	D
1	6	Applications of Laplace transforms to solve Ordinary differential equations	02/09/2017	BAML201	D
2	7	UNIT IV FOURIER SERIES Introduction, Fourier theorem.	04/09/2017	BAML201	D
1	8	Evaluation of Fourier Coefficients	06/09/2017	BAML201	D
2	9	Consideration of symmetry (odd, even, rotational)	07/09/2017	BAML201	D
2	10	Exponential form	08/09/2017	BAML201	D
2	11	Fourier series	09/09/2017	BAML201	D
3	12	UNIT V: FOURIER TRANSFORMS: Fourier Integral theorem	11/09/2017	BAML201	D
3	13	Fourier transforms and their simple properties.	13/09/2017	BAML201	D
4	14	Unit VI Partial Differential equation of first order first degree i. e. Lagrange's form.	14/09/2017	BAML201	D
4	15	Linear homogeneous Partial Differential equation of nth order with constant coefficient	15/09/2017	BAML201	D
4	16	Method of separation of variables	16/09/2017	BAML201	D



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Course : Mathematical Applications In Electronics And

Faculty : Sagar Chouhan

Communication Engineering

Unit	Topic Code	Topic Covered	Date	Course	Section
1	17	Application to transmission lines	18/09/2017	BAML201	D
5	18	UNIT II: Z-TRANSFORMS: Definition & properties	20/09/2017	BAML201	D
5	19	Properties And Problems	21/09/2017	BAML201	D
5	20	Inverse Z- Transform	22/09/2017	BAML201	D
5	21	Application to Z-Transform to solve difference equations with constant coefficients	23/09/2017	BAML201	D
6	22	UNIT III: COMPLEX VARIABLES:	25/09/2017	BAML201	D
6	23	Analytic Functions	27/09/2017	BAML201	D
6	24	Conjugate functions,	28/09/2017	BAML201	D
6	25	Singularities, Cauchy's integral theorem and integral formula (Statement only).	29/09/2017	BAML201	D
6	26	Taylor's and Laurent's Theorem (Statement only).	30/09/2017	BAML201	D
6	27	Residue theorem	04/10/2017	BAML201	D
6	28	contour integration	05/10/2017	BAML201	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Network Theory

Faculty : Ms. Shradha Krishna Umathe

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction to Subject & CO PO	21/08/2017	BEEL201	D
1	2	Nodal and Mesh equilibrium equation, matrix approach	21/08/2017	BEEL201	D
1	3	Mutual Inductance	22/08/2017	BEEL201	D
1	4	Duality, source transformation	23/08/2017	BEEL201	D
1	5	Numericals	23/08/2017	BEEL201	D
1	6	Numericals	25/08/2017	BEEL201	D
1	7	Numericals	28/08/2017	BEEL201	D
1	8	Numericals	28/08/2017	BEEL201	D
2	9	Supersition	29/08/2017	BEEL201	D
2	10	Thevenin Theorem	30/08/2017	BEEL201	D
2	11	norton theorem	30/08/2017	BEEL201	D
2	12	Reciprocity	04/09/2017	BEEL201	D
2	13	Maximum Power transfer	04/09/2017	BEEL201	D
2	14	Compensation Theorem	05/09/2017	BEEL201	D
2	15	tellegens	06/09/2017	BEEL201	D
2	16	Numericals	06/09/2017	BEEL201	D
3	17	Steady state response of a network to non sinusoidal periodic inputs	08/09/2017	BEEL201	D
3	18	Discrete Spectra and symmetry of wave forms synthesis	11/09/2017	BEEL201	D
3	19	Fourier transform and continous spectra	11/09/2017	BEEL201	D
3	20	Numericals	12/09/2017	BEEL201	D
3	21	Numericals	13/09/2017	BEEL201	D
4	22	Laplace transformation and its properties	13/09/2017	BEEL201	D



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Unit	Topic Code	Topic Covered	Date	Course	Section
4	23	Partial fraction, singularity function	15/09/2017	BEEL201	D
4	24	waveform synthesis	18/09/2017	BEEL201	D
4	25	Analysis of RC, RL, and RLC Networks with and without initial conditions Laplace Transforms	18/09/2017	BEEL201	D
4	26	Initial and Final Conditions, transient behaviour	19/09/2017	BEEL201	D
4	27	Numericals	22/09/2017	BEEL201	D
5	28	Concept of complex frequency Driving points and Transfer function.	25/09/2017	BEEL201	D
5	29	Poles and zeroes of admittance function their properties	25/09/2017	BEEL201	D
5	30	sinusoidal response from pole-zero location, calculation	26/09/2017	BEEL201	D
5	31	Numericals	27/09/2017	BEEL201	D
5	32	Numericals	27/09/2017	BEEL201	D
6	33	Two port network parameters and inter connections	29/09/2017	BEEL201	D
6	34	Three Phase unbalanced circuits and power calculations	03/10/2017	BEEL201	D
6	35	Three Phase unbalanced circuits and power calculations	04/10/2017	BEEL201	D
6	36	Graph Theory	04/10/2017	BEEL201	D
6	37	Numericals	06/10/2017	BEEL201	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Electronic Devices & Circuits

Faculty : Ms.Swapna M. Choudhari

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Unit I: PN Junction Diode, PN junction, forward and reverse bias	19/08/2017	BECL201	D
1	2	Derivation of Diode Current Equation, Dynamic Resistance, Temperature dependence of diode current and other parameters	21/08/2017	BECL201	D
1	3	Avalanche and Zener Break Down, Tunnel Diode characteristics, Photo Diode, LED's, LCD's, Varactor Diode	22/08/2017	BECL201	D
1	4	Numericals based on diodes	22/08/2017	BECL201	D
1	5	Half wave rectifiers with filters ,Full wave rectifiers with filters	23/08/2017	BECL201	D
1	7	Numerical on diodes	24/08/2017	BECL201	D
2	6	UNIT II :BI-POLAR JUNCTION TRANSISTORS : Theory of operation, Static Characteristics of transistors	26/08/2017	BECL201	D
2	7	Break down voltages, Current voltage, Power Limitations, Ebers-moll Model, Continuity Equation	28/08/2017	BECL201	D
2	8	Different Biasing arrangement, Stability factor	29/08/2017	BECL201	D
2	9	Thermal runaway, Power Transistors,	29/08/2017	BECL201	D
2	10	Small Signal Analysis,	30/08/2017	BECL201	D
1	1	Numericals based on diodes	31/08/2017	BECL201	D
2	11	Small Signal Analysis,	04/09/2017	BECL201	D
2	12	Regulators: Design of Shunt & Series regulators, Introduction to SMPS	05/09/2017	BECL201	D
3	13	UNIT III :FEEDBACK AMPLIFIERS & OSCILLATORS : Feedback Amplifiers ,Different types of feedback amplifiers	05/09/2017	BECL201	D
3	14	Analysis of Voltage Series Feedback Amplifier	06/09/2017	BECL201	D
1	2	Numericals on rectifiers	07/09/2017	BECL201	D
3	15	Classification of oscillators, Stability of oscillators, Bark Hausen Criteria, Design of RC Oscillators	09/09/2017	BECL201	D



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3	16	Design of LC Oscillators,Design of Crystal Oscillators	11/09/2017	BECL201	D
4	17	UNIT IV :Power Amplifiers :Classification A, B, AB, C, Efficiency,Class A Power Amplifier Analysis(Series Fed and Transformer Coupled), Harmonic Distortion in amplifier	12/09/2017	BECL201	D
4	18	Push Pull Class B Power Amplifier,Complementary Symmetry pair	12/09/2017	BECL201	D
4	19	Cross over Distortion,Class AB power amplifier, removal of crossover distortion	13/09/2017	BECL201	D
2	3	Numericals on transistors	14/09/2017	BECL201	D
4	20	Numericals on biasing methods of transistors	16/09/2017	BECL201	D
5	21	UNIT V : Unipolar Devices ,MOSFET, NMOS, PMOS,Principles of operation and characteristics	18/09/2017	BECL201	D
5	22	Biasing arrangement of FETs,	23/09/2017	BECL201	D
5	23	Biasing arrangement of MOSFETs	25/09/2017	BECL201	D
5	24	Biasing arrangement of MOSFETs	26/09/2017	BECL201	D
6	25	UNIT VI :CMOS Circuits	26/09/2017	BECL201	D
6	26	numericals on FETs	27/09/2017	BECL201	D
3	5	numericals on FETs	28/09/2017	BECL201	D
6	27	MOSFET Switches	03/10/2017	BECL201	D
6	28	Transmission Gate	03/10/2017	BECL201	D
6	29	Inverter - DC, AC Analysis,CMOS NAND/NOR Gates	04/10/2017	BECL201	D
1	6	numericals on FETs	05/10/2017	BECL201	D