



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 : Computer Architecture & Organization

Faculty : Ms. Ratnaprabha W. Jasutkar

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Basic Structure of Computers	18/08/2017	BCSL202	D
1	2	Functional units	18/08/2017	BCSL202	D
1	3	Basic operational concepts	21/08/2017	BCSL202	D
1	4	Bus structures Addressing modes	22/08/2017	BCSL202	D
1	5	parameter passing	24/08/2017	BCSL202	D
1	6	Instruction formats	25/08/2017	BCSL202	D
1	7	expanding opcodes method	25/08/2017	BCSL202	D
2	8	Basic Processing Unit	28/08/2017	BCSL202	D
2	9	Bus architecture	29/08/2017	BCSL202	D
2	10	Execution of a Complete Instruction	31/08/2017	BCSL202	D
2	11	sequencing of control signals	04/09/2017	BCSL202	D
2	12	Hardwired control	05/09/2017	BCSL202	D
2	13	Microprogrammed Control	07/09/2017	BCSL202	D
2	14	microinstruction format	08/09/2017	BCSL202	D
2	15	Bit slice concept	08/09/2017	BCSL202	D
3	16	Arithmetic Unit	11/09/2017	BCSL202	D
3	17	Number representations and their operations	12/09/2017	BCSL202	D
3	18	Design of Fast Adders	14/09/2017	BCSL202	D
3	19	Signed multiplication	15/09/2017	BCSL202	D
3	20	Booth's Algorithm	15/09/2017	BCSL202	D
3	21	bit-pair recoding	18/09/2017	BCSL202	D
3	22	Integer Division	19/09/2017	BCSL202	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Computer Architecture & Organization

Faculty : Ms. Ratnaprabha W. Jasutkar

Unit	Topic Code	Topic Covered	Date	Course	Section
3	23	Floating point numbers and operations	22/09/2017	BCSL202	D
3	24	guard bits and rounding	22/09/2017	BCSL202	D
4	25	The Memory System	25/09/2017	BCSL202	D
4	26	Various technologies used in memory design	26/09/2017	BCSL202	D
4	27	higher order memory design	28/09/2017	BCSL202	D
4	28	Multimodal memories and interleaving	29/09/2017	BCSL202	D
4	29	Associative Memory	29/09/2017	BCSL202	D
4	30	Cache memory	02/10/2017	BCSL202	D
4	31	Virtual Memory	03/10/2017	BCSL202	D
5	32	Input /Output Organization	05/10/2017	BCSL202	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Communication

Faculty : Priya R Maidamwar

Unit	Topic Code	Topic Covered	Date	Course	Section
3	7	Soving MCQs on DIGITAL SUBCRIBER LINE (DSL): ADSL, RADSL,	17/08/2017	BCSL402	D
3	8	Soving numericals on line coding	24/08/2017	BCSL402	D
3	9	Soving numericals on Huffman coding	31/08/2017	BCSL402	D
4	10	Soving numericals on data compression	07/09/2017	BCSL402	D
4	11	Soving numericals on Amplitude modulation (AM), Frequency Modulation (FM), PM	14/09/2017	BCSL402	D
5	12	Soving numericals on Sampling theorem	21/09/2017	BCSL402	D
5	13	Soving MCQs on multiplexing techniques	28/09/2017	BCSL402	D
5	14	Soving previous GATE questions	05/10/2017	BCSL402	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Communication

Faculty : Ms. Ratnaprabha W. Jasutkar

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	To Design & analyze the basic Data Communication System for computing	21/08/2017	BCSP402	D
1	2	Write a MATLAB Program to generate & Analyze various waveforms	21/08/2017	BCSP402	D
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1	2	Write a MATLAB Program to generate & Analyze various waveforms	22/08/2017	BCSP402	D
1	1	To Design & analyze the basic Data Communication System for computing	23/08/2017	BCSP402	D
1	2	Write a MATLAB Program to generate & Analyze various waveforms	23/08/2017	BCSP402	D
1	1	To Design & analyze the basic Data Communication System for computing	24/08/2017	BCSP402	D
1	2	Write a MATLAB Program to generate & Analyze various waveforms	24/08/2017	BCSP402	D
1	3	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	28/08/2017	BCSP402	D
1	4	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	28/08/2017	BCSP402	D
1	3	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	29/08/2017	BCSP402	D
1	4	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	29/08/2017	BCSP402	D
1	3	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	30/08/2017	BCSP402	D
1	4	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	30/08/2017	BCSP402	D
1	3	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	31/08/2017	BCSP402	D
1	4	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	31/08/2017	BCSP402	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Communication

Faculty : Ms. Ratnaprabha W. Jasutkar

Unit	Topic Code	Topic Covered	Date	Course	Section
2	5	Write a MATLAB Program to calculate nyquist sample rate for a given sinusoidal signal	04/09/2017	BCSP402	D
2	6	Design & Implement Amplitude Modulation and perform simulation in MATLAB.	04/09/2017	BCSP402	D
2	5	Write a MATLAB Program to calculate nyquist sample rate for a given sinusoidal signal	05/09/2017	BCSP402	D
2	6	Design & Implement Amplitude Modulation and perform simulation in MATLAB.	05/09/2017	BCSP402	D
2	5	Write a MATLAB Program to calculate nyquist sample rate for a given sinusoidal signal	06/09/2017	BCSP402	D
2	6	Design & Implement Amplitude Modulation and perform simulation in MATLAB.	06/09/2017	BCSP402	D
2	5	Write a MATLAB Program to calculate nyquist sample rate for a given sinusoidal signal	07/09/2017	BCSP402	D
2	6	Design & Implement Amplitude Modulation and perform simulation in MATLAB.	07/09/2017	BCSP402	D
2	7	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	11/09/2017	BCSP402	D
2	8	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	11/09/2017	BCSP402	D
2	7	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	12/09/2017	BCSP402	D
2	8	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	12/09/2017	BCSP402	D
2	7	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	13/09/2017	BCSP402	D
2	8	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	13/09/2017	BCSP402	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Communication

Faculty : Ms. Ratnaprabha W. Jasutkar

Unit	Topic Code	Topic Covered	Date	Course	Section
2	7	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	14/09/2017	BCSP402	D
2	8	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	14/09/2017	BCSP402	D
3	9	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	18/09/2017	BCSP402	D
3	10	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	18/09/2017	BCSP402	D
3	9	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	19/09/2017	BCSP402	D
3	10	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	19/09/2017	BCSP402	D
3	9	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	20/09/2017	BCSP402	D
3	10	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	20/09/2017	BCSP402	D
3	9	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	21/09/2017	BCSP402	D
3	10	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	21/09/2017	BCSP402	D
3	11	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	25/09/2017	BCSP402	D
3	12	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	25/09/2017	BCSP402	D
3	11	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	26/09/2017	BCSP402	D
3	12	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	26/09/2017	BCSP402	D



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Course : Data Communication

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Unit	Topic Code	Topic Covered	Date	Course	Section
3	11	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	27/09/2017	BCSP402	D
3	12	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	27/09/2017	BCSP402	D
3	11	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	28/09/2017	BCSP402	D
3	12	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	28/09/2017	BCSP402	D
3	13	Implementation of ASK and perform simulation in MATLAB	02/10/2017	BCSP402	D
3	14	To demonstrate interconnections of cables for Data Communication and various interface standard	02/10/2017	BCSP402	D
3	13	Implementation of ASK and perform simulation in MATLAB	03/10/2017	BCSP402	D
3	14	To demonstrate interconnections of cables for Data Communication and various interface standard	03/10/2017	BCSP402	D
3	13	Implementation of ASK and perform simulation in MATLAB	04/10/2017	BCSP402	D
3	14	To demonstrate interconnections of cables for Data Communication and various interface standard	04/10/2017	BCSP402	D
3	13	Implementation of ASK and perform simulation in MATLAB	05/10/2017	BCSP402	D
3	14	To demonstrate interconnections of cables for Data Communication and various interface standard	05/10/2017	BCSP402	D



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1	1	To Design & analyze the basic Data Communication System for computing	21/08/2017	BCSP402	D
1	2	Write a MATLAB Program to generate & Analyze various waveforms	21/08/2017	BCSP402	D
1	1	To Design & analyze the basic Data Communication System for computing	22/08/2017	BCSP402	D
1	2	Write a MATLAB Program to generate & Analyze various waveforms	22/08/2017	BCSP402	D
1	1	To Design & analyze the basic Data Communication System for computing	23/08/2017	BCSP402	D
1	2	Write a MATLAB Program to generate & Analyze various waveforms	23/08/2017	BCSP402	D
1	1	To Design & analyze the basic Data Communication System for computing	24/08/2017	BCSP402	D
1	2	Write a MATLAB Program to generate & Analyze various waveforms	24/08/2017	BCSP402	D
1	3	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	28/08/2017	BCSP402	D
1	4	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	28/08/2017	BCSP402	D
1	3	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	29/08/2017	BCSP402	D
1	4	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	29/08/2017	BCSP402	D
1	3	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	30/08/2017	BCSP402	D
1	4	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	30/08/2017	BCSP402	D
1	3	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	31/08/2017	BCSP402	D
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2	5	Write a MATLAB Program to calculate nyquist sample rate for a given sinusoidal signal	04/09/2017	BCSP402	D
2	6	Design & Implement Amplitude Modulation and perform simulation in MATLAB.	04/09/2017	BCSP402	D
2	5	Write a MATLAB Program to calculate nyquist sample rate for a given sinusoidal signal	05/09/2017	BCSP402	D
2	6	Design & Implement Amplitude Modulation and perform simulation in MATLAB.	05/09/2017	BCSP402	D
2	5	Write a MATLAB Program to calculate nyquist sample rate for a given sinusoidal signal	06/09/2017	BCSP402	D
2	6	Design & Implement Amplitude Modulation and perform simulation in MATLAB.	06/09/2017	BCSP402	D
2	5	Write a MATLAB Program to calculate nyquist sample rate for a given sinusoidal signal	07/09/2017	BCSP402	D
2	6	Design & Implement Amplitude Modulation and perform simulation in MATLAB.	07/09/2017	BCSP402	D
2	7	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	11/09/2017	BCSP402	D
2	8	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	11/09/2017	BCSP402	D
2	7	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	12/09/2017	BCSP402	D
2	8	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	12/09/2017	BCSP402	D
2	7	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	13/09/2017	BCSP402	D
2	8	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	13/09/2017	BCSP402	D



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2	7	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	14/09/2017	BCSP402	D
2	8	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	14/09/2017	BCSP402	D
3	9	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	18/09/2017	BCSP402	D
3	10	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	18/09/2017	BCSP402	D
3	9	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	19/09/2017	BCSP402	D
3	10	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	19/09/2017	BCSP402	D
3	9	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	20/09/2017	BCSP402	D
3	10	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	20/09/2017	BCSP402	D
3	9	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	21/09/2017	BCSP402	D
3	10	Implementation of Time Division Multiplexing(TDM) for 1:0.5 interval and perform simulation in MATLAB	21/09/2017	BCSP402	D
3	11	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	25/09/2017	BCSP402	D
3	12	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	25/09/2017	BCSP402	D
3	11	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	26/09/2017	BCSP402	D
3	12	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	26/09/2017	BCSP402	D



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3	11	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	27/09/2017	BCSP402	D
3	12	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	27/09/2017	BCSP402	D
3	11	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	28/09/2017	BCSP402	D
3	12	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	28/09/2017	BCSP402	D
3	13	Implementation of ASK and perform simulation in MATLAB	02/10/2017	BCSP402	D
3	14	To demonstrate interconnections of cables for Data Communication and various interface standard	02/10/2017	BCSP402	D
3	13	Implementation of ASK and perform simulation in MATLAB	03/10/2017	BCSP402	D
3	14	To demonstrate interconnections of cables for Data Communication and various interface standard	03/10/2017	BCSP402	D
3	13	Implementation of ASK and perform simulation in MATLAB	04/10/2017	BCSP402	D
3	14	To demonstrate interconnections of cables for Data Communication and various interface standard	04/10/2017	BCSP402	D
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1	2	Write a MATLAB Program to generate & Analyze various waveforms	21/08/2017	BCSP402	D
1	1	To Design & analyze the basic Data Communication System for computing	22/08/2017	BCSP402	D
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1	1	To Design & analyze the basic Data Communication System for computing	23/08/2017	BCSP402	D
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1	1	To Design & analyze the basic Data Communication System for computing	24/08/2017	BCSP402	D
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1	4	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	28/08/2017	BCSP402	D
1	3	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	29/08/2017	BCSP402	D
1	4	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	29/08/2017	BCSP402	D
1	3	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	30/08/2017	BCSP402	D
1	4	Sketch & Write a MATLAB Program to convert Analog Signal to Digital Signal for the given values	30/08/2017	BCSP402	D
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Course : Data Communication

Faculty : Ms. Ratnaprabha W. Jasutkar

Unit	Topic Code	Topic Covered	Date	Course	Section
2	5	Write a MATLAB Program to calculate nyquist sample rate for a given sinusoidal signal	04/09/2017	BCSP402	D
2	6	Design & Implement Amplitude Modulation and perform simulation in MATLAB.	04/09/2017	BCSP402	D
2	5	Write a MATLAB Program to calculate nyquist sample rate for a given sinusoidal signal	05/09/2017	BCSP402	D
2	6	Design & Implement Amplitude Modulation and perform simulation in MATLAB.	05/09/2017	BCSP402	D
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2	6	Design & Implement Amplitude Modulation and perform simulation in MATLAB.	07/09/2017	BCSP402	D
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2	7	Design & Implementation of pulse Amplitude Modulation and perform simulation in MATLAB.	12/09/2017	BCSP402	D
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Course wise Teaching Plan for Session : Winter 2017

Course : Data Communication

Faculty : Ms. Ratnaprabha W. Jasutkar

Unit	Topic Code	Topic Covered	Date	Course	Section
3	11	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	27/09/2017	BCSP402	D
3	12	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	27/09/2017	BCSP402	D
3	11	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	28/09/2017	BCSP402	D
3	12	Implementation of Frequency Division Multiplexing and perform simulation in MATLAB	28/09/2017	BCSP402	D
3	13	Implementation of ASK and perform simulation in MATLAB	02/10/2017	BCSP402	D
3	14	To demonstrate interconnections of cables for Data Communication and various interface standard	02/10/2017	BCSP402	D
3	13	Implementation of ASK and perform simulation in MATLAB	03/10/2017	BCSP402	D
3	14	To demonstrate interconnections of cables for Data Communication and various interface standard	03/10/2017	BCSP402	D
3	13	Implementation of ASK and perform simulation in MATLAB	04/10/2017	BCSP402	D
3	14	To demonstrate interconnections of cables for Data Communication and various interface standard	04/10/2017	BCSP402	D
3	13	Implementation of ASK and perform simulation in MATLAB	05/10/2017	BCSP402	D
3	14	To demonstrate interconnections of cables for Data Communication and various interface standard	05/10/2017	BCSP402	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Communication

Faculty : Ms. Ratnaprabha W. Jasutkar

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Analog and digital	18/08/2017	BCSL402	D
1	3	Decomposition of Digital Signal	23/08/2017	BCSL402	D
1	4	Transmission Modes	24/08/2017	BCSL402	D
1	5	Serial and Parallel Transmission	24/08/2017	BCSL402	D
1	6	Asynchronous and Synchronous Transmission	25/08/2017	BCSL402	D
2	8	Encoding and Modulation	30/08/2017	BCSL402	D
2	9	Digital-to-Digital Conversion	31/08/2017	BCSL402	D
2	10	Unipolar, Polar, Bipolar	31/08/2017	BCSL402	D
2	12	Pulse Amplitude Modulation (PAM), Pulse Code Modulation (PCM)	06/09/2017	BCSL402	D
2	13	Digital-To-Analog Conversion	07/09/2017	BCSL402	D
2	14	Analog to analog conversion	08/09/2017	BCSL402	D
2	16	Numericals	13/09/2017	BCSL402	D
2	17	Interfaces and Modems	14/09/2017	BCSL402	D
3	18	Digital Data Transmission	14/09/2017	BCSL402	D
3	19	Parallel transmission, Serial Transmission	15/09/2017	BCSL402	D
3	21	Data Terminal Equipment (DTE)	20/09/2017	BCSL402	D
3	22	Data Circuit-Terminating Equipment (DEC)	22/09/2017	BCSL402	D
3	24	EIA-449, EIA-530	27/09/2017	BCSL402	D
4	25	Communication Media	28/09/2017	BCSL402	D
4	26	Guided Media	28/09/2017	BCSL402	D
4	27	Unguided Media	29/09/2017	BCSL402	D
4	29	Terrestrial Microwave	04/10/2017	BCSL402	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Communication

Faculty : Ms. Ratnaprabha W. Jasutkar

Unit	Topic Code	Topic Covered	Date	Course	Section
4	30	Satellite Communication	05/10/2017	BCSL402	D
4	31	Cellular Telephony	05/10/2017	BCSL402	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Structure Using C

Faculty : Shruti Giridhar Mule

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction to data structure	18/08/2017	BCSL201	D
1	1	Introduction to Arrays, Linear arrays, Arrays as ADT, Representation of linear in memory	18/08/2017	BCSL201	D
1	2	Inserting & deleting, Traversing Linear Arrays, Sorting: Bubble sort,	18/08/2017	BCSL201	D
1	3	Searching: Linear search, Binary search	21/08/2017	BCSL201	D
1	4	Multidimensional arrays, Representation of Polynomials using Arrays,	21/08/2017	BCSL201	D
1	5	Record & Pointers, Pointer arrays, Dynamic memory management, Records, Record structures,	22/08/2017	BCSL201	D
1	6	Representation of records in memory, Parallel Arrays, Matrices, Sparse Matrices.	23/08/2017	BCSL201	D
6	7	Programs on Array, Sorting & searching, Introduction to Sorting, Insertion Sort, Selection Sort	28/08/2017	BCSL201	D
6	8	Merging, Merge-Sort, Shell Sort, Radix Sort, Sorting Techniques Comparison	28/08/2017	BCSL201	D
6	9	Searching and Data Modification, Hashing, Programs on Sorting & searching	30/08/2017	BCSL201	D
6	10	Introduction to linked list, Representation of linked Lists in Memory (Video Lecture),	01/09/2017	BCSL201	D
6	11	Program on Linked list, Insertion in to a linked list, Deletion from a linked list.	01/09/2017	BCSL201	D
6	12	Traversing a Linked list, Searching a linked list, Memory allocation, Garbage collection.	04/09/2017	BCSL201	D
6	13	Types of Linked list & their Use, Insertion and Deletion from a Circularly linked list.	04/09/2017	BCSL201	D
6	14	Two way lists or Doubly Linked List., Doubly Linked List Programs	05/09/2017	BCSL201	D
2	15	Exercise on Linked list , Introduction to Stacks, Array representation of stacks.	06/09/2017	BCSL201	D



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Course wise TeachingPlan for Session : Winter 2017

Course : Data Structure Using C

Faculty : Shruti Giridhar Mule

Unit	Topic Code	Topic Covered	Date	Course	Section
2	16	Linked representation of stacks. Stacks as ADT.C41	08/09/2017	BCSL201	D
2	17	Arithmetic expression. Polish Notation. (Video Lecture)	08/09/2017	BCSL201	D
2	18	Applications of Stacks. Recursion., Towers of Hanoi, Implementation of recursive procedures by stacks.	11/09/2017	BCSL201	D
2	19	Linked Representation of Queues, Queues as ADT., Circular of Queues, Deques, Priority Queues, Applications of Queues	11/09/2017	BCSL201	D
3	20	Programs on Prefix, Postfix and Infix, Introduction to Non Linear Data Structure, Header Nodes; Binary tree ,Binary Search Trees	12/09/2017	BCSL201	D
3	21	Implementation of Tree using Array & Linked List, Introduction to Binary Trees. Representing Binary Tree in Memory	13/09/2017	BCSL201	D
3	22	Searching and Inserting in Binary Search Trees, Deleting in a Binary Search Tree, Threads ,Threaded Binary Trees	15/09/2017	BCSL201	D
4	23	Traversing Binary Trees, Traversal Algorithms Using Stacks	15/09/2017	BCSL201	D
4	24	B-tree & B++ Tree, AVL Tree (Insertion & Deletion Algorithm)(Video Lecture)	18/09/2017	BCSL201	D
4	25	Balanced Binary Trees, AVL Search Trees, Insertion in an AVL Search Tree ,Deletion in an AVL Search Tree	18/09/2017	BCSL201	D
4	26	Programs on Binary Search Tree, Programs on Traversal of tree	19/09/2017	BCSL201	D
5	27	Introduction to graphs , Graph Theory,	20/09/2017	BCSL201	D
5	28	Terminology , Sequential Representation of Graphs,	22/09/2017	BCSL201	D
5	29	Adjacency Matrix; Path Matrix, Linked Representation of a Graph,	22/09/2017	BCSL201	D
5	30	Programs on Prefix, Postfix and Infix, Introduction to Non Linear Data Structure, Header Nodes; Binary tree ,Binary Search Trees	25/09/2017	BCSL201	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Structure Using C

Faculty : Shruti Giridhar Mule

Unit	Topic Code	Topic Covered	Date	Course	Section
5	31	Operations on Graphs. Traversing a Graph,	25/09/2017	BCSL201	D
5	32	Warshall's Algorithm; Shortest Paths., Prims & Kruskals Algorithm, Programs on Shortest Path	26/09/2017	BCSL201	D
5	33	Topological Sorting,	27/09/2017	BCSL201	D
5	34	Spanning Trees,	29/09/2017	BCSL201	D
5	35	Programs on BFS and DFS	29/09/2017	BCSL201	D
0	36	Revision	03/10/2017	BCSL201	D
0	37	Revision	04/10/2017	BCSL201	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Structure Using C

Faculty : Shruti Giridhar Mule

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Requirement Gathering for project	21/08/2017	BCSP201	D
1	2	Requirement Gathering for project	21/08/2017	BCSP201	D
0	0	Implementation of Sorting & Searching	28/08/2017	BCSP201	D
0	0	Implementation of Array	28/08/2017	BCSP201	D
0	0	Implementation of Structure	04/09/2017	BCSP201	D
0	0	Implementation of Linked List	04/09/2017	BCSP201	D
0	0	Implementation of Linked List	11/09/2017	BCSP201	D
0	0	Implementation of Stack	11/09/2017	BCSP201	D
0	0	Implementation of Queue	18/09/2017	BCSP201	D
0	0	Implementation of Structure	18/09/2017	BCSP201	D
0	0	Implementation of Graph	25/09/2017	BCSP201	D
0	0	Revision	25/09/2017	BCSP201	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Mathematical Applications in Computational
Engineering

Faculty : Mr. Bhagwat Thakran

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Laplace Transform	18/08/2017	BAML204	D
1	2	Transform of derivatives and integrals	19/08/2017	BAML204	D
1	3	Evaluation of integrals by L.T. ,inverse L.T.& its properties	19/08/2017	BAML204	D
1	1	TUTORIAL-1	21/08/2017	BAML204	D
1	4	Convolution theorem	23/08/2017	BAML204	D
1	5	Laplace transforms of periodic function & unit step function	24/08/2017	BAML204	D
1	6	Inverse Laplace Transform	25/08/2017	BAML204	D
1	7	Application of Laplace transform to solve ordinary differential equation	26/08/2017	BAML204	D
2	8	The Z transform: Definition & Properties	26/08/2017	BAML204	D
2	2	TUTORIAL-2	28/08/2017	BAML204	D
2	9	Properties	30/08/2017	BAML204	D
2	10	Inverse Z-transform	31/08/2017	BAML204	D
3	3	TUTORIAL-3	04/09/2017	BAML204	D
2	11	Inverse Z-transform	06/09/2017	BAML204	D
2	12	Inverse Z-transform	07/09/2017	BAML204	D
2	13	Inverse Z-transform	08/09/2017	BAML204	D
2	14	Application of Z- transform to solve difference equation with constant coefficients	09/09/2017	BAML204	D
3	15	Fourier Series: Periodic Function	09/09/2017	BAML204	D
4	4	TUTORIAL-4	11/09/2017	BAML204	D
3	16	Even & odd function with examples	13/09/2017	BAML204	D
3	17	Change of interval	14/09/2017	BAML204	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Mathematical Applications in Computational

Faculty : Mr. Bhagwat Thakran

Engineering Unit	Topic Code	Topic Covered	Date	Course	Section
3	18	Fourier Transform: Fourier integral theorem, Fourier Transform and their simple properties	15/09/2017	BAML204	D
4	19	Partial Differential Equation and its application : P. D.E. of 1st order & 1st degree	16/09/2017	BAML204	D
4	20	Higher order PDE	16/09/2017	BAML204	D
5	5	TUTORIAL-5	18/09/2017	BAML204	D
4	21	method of separation of variable	22/09/2017	BAML204	D
4	22	Application of PDE	23/09/2017	BAML204	D
5	23	Random Variables: Random Variables	23/09/2017	BAML204	D
6	6	TUTORIAL-6	25/09/2017	BAML204	D
5	24	Distribution functions of continuous function	27/09/2017	BAML204	D
5	25	Joint distribution	28/09/2017	BAML204	D
5	26	Mathematical expectation	29/09/2017	BAML204	D
5	27	Moment generating function	30/09/2017	BAML204	D
6	28	Special probability distribution: Geometric expansion	30/09/2017	BAML204	D
6	29	Binomial expansion, Poisson's expansion	04/10/2017	BAML204	D
6	30	Normal, Exponential, Uniform Weibul probability distribution	05/10/2017	BAML204	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Principles Of Management

Faculty : Dr. Kaustav Shyamal

Mukharjee

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	INTRODUCTION	21/08/2017	BHUL201	D
1	4	Management yesterday and today	23/08/2017	BHUL201	D
1	5	Management yesterday and today	24/08/2017	BHUL201	D
2	8	Management Information System: Introduction	30/08/2017	BHUL201	D
2	9	Management Information System: Introduction	04/09/2017	BHUL201	D
2	13	Information System Requirement	07/09/2017	BHUL201	D
2	12	Information System Requirement	08/09/2017	BHUL201	D
2	14	Information System Requirement	11/09/2017	BHUL201	D
3	15	Marketing Management: Marketing concept	12/09/2017	BHUL201	D
3	16	Marketing Management: Marketing concept	12/09/2017	BHUL201	D
3	17	Marketing Management: Marketing concept	14/09/2017	BHUL201	D
3	18	Indian Marketing Environment	15/09/2017	BHUL201	D
3	19	Indian Marketing Environment	18/09/2017	BHUL201	D
3	22	Market segmentation	25/09/2017	BHUL201	D
3	20	Market segmentation	26/09/2017	BHUL201	D
3	21	Market Planning	26/09/2017	BHUL201	D
4	23	Financial Management	28/09/2017	BHUL201	D
4	24	Financial Management	29/09/2017	BHUL201	D
4	25	Financial Management	03/10/2017	BHUL201	D
5	26	Recruitment, Selection	03/10/2017	BHUL201	D
5	27	Training and development, Security, Safety and Health.	05/10/2017	BHUL201	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Shell Programming

Faculty : Shruti Giridhar Mule

Unit	Topic Code	Topic Covered	Date	Course	Section
0	0	Introduction to Python	24/08/2017	BCSP202	D
0	0	Write a program using Python to implement a Simple Calculator	24/08/2017	BCSP202	D
0	0	Write a program using Python to implement Guess the word	31/08/2017	BCSP202	D
0	0	Write a program using Python to implement Rock-Paper-Scissor game	31/08/2017	BCSP202	D
0	0	Write a program using Python to design Stop Watch	07/09/2017	BCSP202	D
0	0	Write a program using Python to implement Caesar Cipher algorithm	07/09/2017	BCSP202	D
0	0	Write a program using Python for graphical memory representation	14/09/2017	BCSP202	D
0	0	Write a program using Python to implement Cow and Bull game with user	14/09/2017	BCSP202	D
0	0	Write a program using Python to implement Tower of Hanoi	21/09/2017	BCSP202	D
0	0	Write a program using Python to implement Battleships game	21/09/2017	BCSP202	D
0	0	Write a program using Python to implement Logic Gate Simulation	28/09/2017	BCSP202	D
0	0	Write a program using Python to implement Logic Gate Simulation	28/09/2017	BCSP202	D
0	0	Revision	05/10/2017	BCSP202	D
0	0	Revision	05/10/2017	BCSP202	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Shell Programming

Faculty : Amreen Khan

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Python Program to Make a Simple Calculator	28/08/2017	BCSP202	D
2	2	Python Program to Make a Simple Calculator	28/08/2017	BCSP202	D
1	1	Python Program to Make a Simple Calculator	30/08/2017	BCSP202	D
2	2	Python Program to Make a Simple Calculator	30/08/2017	BCSP202	D
2	3	Python Program for Sentence Generator	04/09/2017	BCSP202	D
2	4	Python Program for Sentence Generator	04/09/2017	BCSP202	D
1	1	Python Program to Make a Simple Calculator	05/09/2017	BCSP202	D
1	2	Python Program to Make a Simple Calculator	05/09/2017	BCSP202	D
2	3	Python Program for Sentence Generator	06/09/2017	BCSP202	D
2	4	Python Program for Sentence Generator	06/09/2017	BCSP202	D
2	5	Python Program for Caesar Cipher algorithm	11/09/2017	BCSP202	D
2	6	Python Program for Caesar Cipher algorithm	11/09/2017	BCSP202	D
2	3	Python Program for Caesar Cipher algorithm	12/09/2017	BCSP202	D
2	4	Python Program for Caesar Cipher algorithm	12/09/2017	BCSP202	D
3	7	Python Program to design Stop Watch	18/09/2017	BCSP202	D
3	8	Python Program to design Stop Watch	18/09/2017	BCSP202	D
2	5	Python Program for Caesar Cipher algorithm	20/09/2017	BCSP202	D
2	6	Python Program for Caesar Cipher algorithm	20/09/2017	BCSP202	D
3	9	Python Program for graphical memory representation	25/09/2017	BCSP202	D
4	10	Python Program for graphical memory representation	25/09/2017	BCSP202	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Shell Programming

Faculty : Amreen Khan

Unit	Topic Code	Topic Covered	Date	Course	Section
3	5	Python Program for Rock-Paper-Scissor game	26/09/2017	BCSP202	D
3	6	Python Program for Rock-Paper-Scissor game	26/09/2017	BCSP202	D
3	7	Python Program for Rock-Paper-Scissor game	27/09/2017	BCSP202	D
3	8	Python Program for Rock-Paper-Scissor game	27/09/2017	BCSP202	D
4	7	Python Program to design Stop Watch	03/10/2017	BCSP202	D
4	8	Python Program to design Stop Watch	03/10/2017	BCSP202	D
3	9	Python Program to design Stop Watch	04/10/2017	BCSP202	D
4	10	Python Program to design Stop Watch	04/10/2017	BCSP202	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Structure Using C

Faculty : Sarika R. Bongade

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Introduction to Arrays, Linear arrays, Arrays as ADT, Representation of linear in memory, Inserting & deleting, Traversing Linear Arrays,	18/08/2017	BCSL201	D
1	2	Sorting: Bubble sort, Insertion, selection Sort	21/08/2017	BCSL201	D
1	3	Searching: Linear search, Binary search	22/08/2017	BCSL201	D
1	4	Record & Pointers, Pointer arrays, Multidimensional arrays, Representation of Polynomials using Arrays.	23/08/2017	BCSL201	D
1	5	Dynamic memory management, Records, Record structures, Representation of records in memory. Parallel Arrays, Matrices, Sparse Matrices	28/08/2017	BCSL201	D
1	6	Merging, Merge-Sort, Quick Sort	30/08/2017	BCSL201	D
1	7	Shell Sort, Radix Sort, Sorting Techniques Comparison, Searching and Data Modification, Hashing	01/09/2017	BCSL201	D
1	8	Introduction to linked list, Representation of linked Lists in Memory (Video Lecture)	04/09/2017	BCSL201	D
1	9	Program on Linked list, Insertion in to a linked list, Deletion from a linked list.	05/09/2017	BCSL201	D
6	10	Traversing a Linked list, Searching a linked list., Memory allocation, Garbage collection.	06/09/2017	BCSL201	D
6	11	Types of Linked list & their Use, Insertion and Deletion from a Circularly linked list	08/09/2017	BCSL201	D
6	12	Two way lists or Doubly Linked List, Doubly Linked List Programs	11/09/2017	BCSL201	D
6	13	Two way lists or Circular Linked List and programs on list	12/09/2017	BCSL201	D
6	14	Linked representation of stacks. Stacks as ADT, Arithmetic expression. Polish Notation. (Video Lecture)	15/09/2017	BCSL201	D
2	15	Applications of Stacks. Recursion.	18/09/2017	BCSL201	D



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Course wise Teaching Plan for Session : Winter 2017

Course : Data Structure Using C

Faculty : Sarika R. Bongade

Unit	Topic Code	Topic Covered	Date	Course	Section
2	16	Linked Representation of Queues, Queues as ADT.	20/09/2017	BCSL201	D
2	17	Circular of Queues, Deques, Priority Queues, Applications of Queues, Programs on Prefix, Postfix and Infix	22/09/2017	BCSL201	D
2	18	Introduction to Non Linear Data Structure, Header Nodes; Binary tree ,Binary Search Trees, Implementation of Tree using Array & Linked List	25/09/2017	BCSL201	D
2	19	Introduction to Binary Trees. Representing Binary Tree in Memory, Searching and Inserting in Binary Search Trees, Deleting in a Binary Search Tree, Threads ,Threaded Binary Trees	26/09/2017	BCSL201	D
2	20	Traversing Binary Trees, Traversal Algorithms Using Stacks	27/09/2017	BCSL201	D
2	21	B-tree & B++ Tree, AVL Tree (Insertion & Deletion Algorithm)(Video Lecture), Balanced Binary Trees, AVL Search Trees.	29/09/2017	BCSL201	D
2	22	Insertion in an AVL Search Tree ,Deletion in an AVL Search Tree, Programs on Binary Search Tree	03/10/2017	BCSL201	D
2	23	Programs on Traversal of tree, Introduction to graphs , Graph Theory, Terminology	04/10/2017	BCSL201	D
2	24	Sequential Representation of Graphs, Adjacency Matrix; Path Matrix, Linked Representation of a Graph,	06/10/2017	BCSL201	D
3	25	Operations on Graphs. Traversing a Graph, Warshall's Algorithm; Shortest Paths.	09/10/2017	BCSL201	D
3	26	Prims & Kruskals Algorithm, Programs on Shortest Path	10/10/2017	BCSL201	D
3	27	Topological Sorting, Spanning Trees,Programs on BFS and DFS, Balanced Binary Trees, AVL Search Trees.	11/10/2017	BCSL201	D
3	28	Adjacency Matrix; Path Matrix, Linked Representation of a Graph,	13/10/2017	BCSL201	D