

Department of Telecommunication Engineering

SEMESTER : VI
SECTIONS : B
SUBJECT : Digital Communication
SUBJECT CODE : 10TE61
NO OF HRS/WK : 6

NAME OF THE FACULTY : Raveesh Hegde
DATE OF COMMENCEMENT : 27.01.2016
DATE OF CLOSING : 10.05.2016
CLASS STRENGTH : 45
TOTAL HRS : 70

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignm ents/ Tests planned for the chapter	Topics covere d As per plan
1	1/1	27/01	Introduction to Digital Communication: Block Diagram of Digital Communication Systems,	Board, chalk, duster		
2	2/1	28/01	Advantages of Digital Communication.	„		
3	3/1	29/01	Introduction to Random Process: Definitions, Conditional Probability and Statistical Independence,	„	Assignm ent 0	
4	4/1	30/01	PDF and CDF, Some Important PDFs,	„		
5	5/1	03/02	Joint and Conditional Density Functions,	„		
6	6/1	04/02	Random Processes,.	„		
7	7/1	05/02	Wide Sense and Strict Sense Stationarity,	„		
8	8/1	05/02	Autocorrelation and Power Spectral Density	Board, chalk, duster		
9	9/1	05/02	Problems	„		
10	10/1	08/02	Problems	„		
11	1/2	08/02	Gram-Schmidt Orthogonalization Procedure,	„		
12	2/2	11/02	Problems			
13	3/2	12/02	Problems	„		
14	4/2	13/02	Geometric Interpretation of	„		

			Signals.			
15	5/2	13/02	Problems	„		
16	6/2	15/02	Problems			
17	1/3	15/02	Basic Signal Processing Operations in Digital Communication: Sampling Principles,		Assignment 1	
18	2/3	18/02	Sampling Theorem,			
19	3/3	22/02	Quadrature Sampling of Bandpass Signals,	„		
20	4/3	23/02	Practical Aspects of Sampling	„		
21	5/3	23/02	Signal Recovery,	„		
22	6/3	24/02	TDM.	„	Assignment 2	
23	7/3	24/02	Problems	„		
24	8/3	29/02	Problems			
25	9/3	01/03	Problems			
26	10/3	02/03	Problems	Board, chalk, duster		
27	1/4	02/03	Waveform Coding Techniques: PAM,	„		
28	2/4	03/03	PCM,	„		
29	3/4	03/03	Quantization Noise	„	Assignment 3	
30	4/4	08/03	SNR,	„		
31	5/4	09/03	Robust Quantization,	„		
32	6/4	10/03	DPCM,	„		
33	7/4	10/03	DM,	„		
34	8/4	11/03	Applications	„	Assignment 4	
35	9/4	11/03	Problems	Board, chalk, duster		
36	10/4	19/03	Problems	„		
37	1/5	21/03	Baseband Shaping for Data Transmission: Discrete PAM Signals,	„		
38	2/5	22/03	Power Spectra of Discrete PAM Signals,	„		

39	3/5	22/03	ISI,	„		
40	4/5	23/03	Nyquist's Criterion for Distortion less Baseband Binary Transmission,	„		
41	5/5	23/03	Correlative Coding,	„		
42	6/5	29/03	Eye pattern,	„	Assignment 5	
43	7/5	30/03	Baseband M-ary PAM Signals,			
44	8/5	31/03	Adaptive Equalization for Data Transmission	„		
45	9/5	31/03	Problems	„		
46	10/5	01/04	Problems	„	Assignment 6	
47	1/6	01/04	Detection of Known Signals in Noise: Correlation Receiver,	„		
48	2/6	05/04	Response of Bank of Correlators to Noisy Input,	„		
49	3/6	06/04	Matched Filter Receiver,	„		
50	4/6	07/04	Detection of Signals With Unknown Phase in Noise.	„		
51	5/6	07/04	Problems	„	Assignment 7	
52	6/6	11/04	Problems			
53	7/6	11/04	Problems	Board, chalk, duster		
54	8/6	15/04	Problems	„		
55	1/7	16/04	Digital Modulation Techniques: Digital Modulation Formats,	„		
56	2/7	18/04	Coherent Binary Modulation Techniques,	„		
57	3/7	18/04	Coherent Quadrature Modulation Techniques,	„	Assignment 8	
58	4/7	20/04	Coherent Quadrature Modulation Techniques,	„		
59	5/7	20/04	Non Coherent Binary Modulation Techniques.	„		
60	8/7	23/04	Non Coherent Binary Modulation Techniques.	„		
61	9/7	28/04	Problems	„		
62	10/7	29/04	Problems	„	Assignment 9	
63	11/7	29/04	Problems			
64	12/7	30/04	Problems	„		

65	1/8	30/04	Spread Spectrum Modulation: Pseudo Noise Sequences,	”		
66	2/8	04/05	Notion of Spread Spectrum,			
67	3/8	05/05	Direct Sequence Spread Spectrum,			
68	4/8	06/05	Coherent Binary PSK,			
69	5/8	06/05	Frequency Hop Spread Spectrum,		Assignment 10	
70	6/8	07/05	Applications.			

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**CMR INSTITUTE
OF TECHNOLOGY**



Session wise – Course Plan

Department of Telecommunication

SEMESTER :VI
BRANCH : TCE & ECE
SUBJECT : Microprocessor
SUBJECT CODE : 10EC62
NO OF HRS/WK : 6

NAME OF THE FACULTY : Mrs. SOPHIYA SUSAN.
DATE OF COMMENCEMENT : 27.01.2016
DATE OF CLOSING : 21.05.2016
CLASS STRENGTH : 43 & 46
TOTAL HRS :71

Session No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter	Topics covered As per plan
1	1/1	27/01/2016	Unit 1: 8086 processors: historical background, difference between Microprocessor and Microcontroller	Board, chalk, duster	Pre-Assignment	
2	2/1	28/01/2016	8086 CPU architecture	“		
3	3/1	29/01/2016	8086 CPU architecture	“		
4	4/1	30/01/2016	Addressing modes	“		
5	5/1	1/2/2016	Addressing modes	“		
6	6/1	2/2/2016	Instructions : Data transfer instructions, programs for lab Instruction execution timing	“		
7	7/1	3/2/2016	Instructions : Data transfer instructions, programs for lab Instruction execution timing	“	Assignment 1	
8	8/1	4/2/2016	Calculating the time required for the instruction for execution in different addressing modes	“		
9	9/1	5/2/2016	Calculating the time required for the instruction for execution in different addressing modes	“		
10	1/2	8/2/2016	Unit 2: Opcode format with examples	“		

11	2/2	9/2/2016	Arithmetic instructions with examples	“		
12	3/2	10/2/2016	Logical instructions and shift and rotate instructions Example programs.	Board, chalk, duster	Assignment 2	
13	4/2	11/2/2016	Directives and operators	“		
14	5/2	12/2/2016	Directives and operators	“		
15	6/2	13/2/2016	Memory addressing mode	“		
16	7/2	15/2/2016	Branch type instructions with example	“		
17	8/2	16/2/2016	Loop	“	Assignment 3	
18	9/2	17/2/2016	ASCII	“		
19	10/2	18/2/2016	Example programs on Procedures	“		
20	11/2	22/2/2016	Example programs on Procedures	“		
21	12/2	23/2/2016	Macros.	“		
22	13/2	24/2/2016	Macros.	“		
23	1/3	25/2/2016	Unit 3: BYTE AND STRING MANIPULATION: String instructions, REP Prefix	Board, chalk, duster		
24	2/3	26/2/2016	Example programs on String instructions	“		
25	3/3	29/2/2016	Table translation	“	Assignment 4	
26	4/3	1/3/2016	DOS interrupts:	“		
27	5/3	2/3/2016	Programming using keyboard.	“		
28	6/3	3/3/2016	Programming using video display.	“		
29	7/3	4/3/2016	NOP & HALT, flag manipulation, WAIT, LOCK instructions	“		
30	8/3	5/3/2016	Number format conversions	“		
31	9/3	8/3/2016	Number format conversions	“	Assignment 5	
32	1/5	9/3/2016	Unit 5: 8086 interfacing: 82C55 PPI, block diagram, working	“		
33	2/5	10/3/2016	Different modes of operation of 82C55	“		
34	3/5	11/3/2016	Interfacing microprocessor to keyboard (keyboard types)	Board, chalk, duster		
35	4/5	17/3/2016	Keyboard circuit connections and interfacing and related ALP.	“		
36	5/5	18/3/2016	Software keyboard interfacing	“		
37	6/5	19/3/2016	Interfacing to alphanumeric Displays (interfacing LED displays to microcomputer)	“	Assignment 6	
38	7/5	21/3/2016	Interfacing a microcomputer to a stepper motor. Delay Calculation	“		
39	8/5	22/3/2016	Interfacing a microcomputer to a stepper motor. Delay Calculation	“		

40	1/7	23/3/2016	Unit 7 : SYSTEM BUS STRUCTURE Difference between 8086 and 8088	“		
41	2/7	24/3/2016	Basic 8086 Configurations: minimum mode	“		
42	3/7	28/3/2016	Maximum mode	“		
43	4/7	29/3/2016	Bus Interface Peripheral component interconnect PCI bus,	“	Assignment 7	
44	5/7	30/3/2016	The parallel printer interface (LPT)	“		
45	6/7	31/3/2016	The universal serial bus (USB)	Board, chalk, duster		
46	7/7	1/4/2016	Delay calculation	“		
47	1/6	2/4/2016	Unit 6 : 8086 BASED MULTIPROCESSING SYSTEMS: Coprocessor configurations	“		
48	2/6	4/4/2016	The 8087 numeric data processor:	“		
49	3/6	5/4/2016	Data types.	“		
50	4/6	6/4/2016	Data types.	“	Assignment 8	
51	5/6	7/4/2016	Processor architecture Instruction set,	“		
52	6/6	11/4/2016	Instruction set Example programs	“		
53	7/6	12/4/2016	Instruction set Example programs	“		
54	1/4	13/4/2016	UNIT – 4 8086 INTERRUPTS: 8086 Interrupts and interrupt responses.	“		
55	2/4	15/4/2016	Hardware interrupt applications.	“		
56	3/4	16/4/2016	Software interrupt applications.	Board, chalk, duster		
57	4/4	18/4/2016	Interrupt examples.	“		
58	5/4	20/4/2016	More examples on interrupts.	“		
59	1/8	21/4/2016	The microprocessor-based Personal computer system Introduction to the 80386 microprocessor, Special 80386 registers, Introduction to the 80486 microprocessor. Introduction to the Pentium Processor	“	Assignment 9	
60	2/8	22/4/2016	Unit – 8 Introduction to the 80386 microprocessor	“		
61	3/8	23/4/2016	Introduction to the 80386 microprocessor	“		
62	4/8	28/4/2016	Special 80386 registers	“		
63	5/8	29/4/2016	Introduction to the 80486 microprocessor	“	Assignment 10	
64	6/8	30/4/2016	Introduction to the Pentium Processor	“		
65	7/8	2/5/2016	Introduction to the Pentium Processor	“		
66		3/5/2016	Revision	“		
67		5/5/2016	Revision	“		
68		6/5/2016	Revision	“		
69		7/5/2016	Revision	“		
70		10/5/2016	Revision	“		

71		11/5/2016	Revision	“		
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**CMR INSTITUTE
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Session wise – Course Plan

Department of Telecommunication

SEMESTER : VII
BRANCH : ECE/TCE
SUBJECT : Antennas & Propagation
SUBJECT CODE : 10EC/TE63
NO OF HRS/WK : 5

NAME OF THE FACULTY : Mr. Abhishek Javali
DATE OF COMMENCEMENT : 18.01.2016
DATE OF CLOSING : 21.5.2016
CLASS STRENGTH : 60
TOTAL HRS : 52

Session No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter	Topics covered As per plan
	1/1	25.01.2016	Unit-1 Introduction to antennas , basic antenna parameters	Board, chalk, duster	Assignment-1	
2	2/1	27.01.2016	Patterns, beam area, and radiation intensity	„		
3	3/1	28.01.2016	Beam efficiency, directivity and gain	„		
4	4/1	29.01.2016	Antenna aperture, Effective height	„		
5	5/1	30.01.2016	Bandwidth, Radiation, antenna temperature, efficiency	„		
6	6/1	01.02.2016	Antenna field zones, Problems for effective height,	„		
7	7/1	02.02.2016	FRISS formula	„		
8	$\frac{1}{2}$	03.02.2016	Unit-2 POINT SOURCES AND ARRAYS: Introduction, point sources	Board, chalk, duster	Assignment-2	
9	2/2	04.02.2016	power patterns, power theorem	„		
10	3/2	05.02.2016	radiation intensity, filed patterns	„		

11	4/2	08.02.2016	phase patterns. Array of two isotropic point sources	„		
12	5/2	09.02.2016	Array of two isotropic point sources	„		
13	6/2	10.02.2016 11.02.2016	endfire array and broadfire array	„		
14	1/3	12.02.2016	UNIT - 3 ELECTRIC DIPOLES AND THIN LINEAR ANTENNAS Introduction	„	Assignment-3	
15	2/3	13.02.2016	short electric dipole, fields of a short dipole (no derivation of field components included)			
16	3/3	15.02.2016	radiation resistance of short dipole			
17	4/3	16.02.2016	radiation resistances of $\lambda/2$ Antenna, thin linear antenna			
18	5/3	17.02.2016	micro strip arrays, low side lobe arrays	„		
19	6/3	18.02.2016	long wire antenna, folded dipole antennas	„		
20	1/4	22.02.2016	UNIT - 4 & 5 LOOP, SLOT, PATCH AND HORN ANTENNA: Introduction	„	Assignment-4	
21	2/4	23.02.2016	small loop, comparison of far fields of small loop and short dipole	„		
22	3/4	24.02.2016	loop antenna general case, far field patterns of circular loop	„		
23	4/4	25.02.2016	radiation resistance, directivity, slot antenna			
24	5/4	26.02.2016	Babinet's principle and complementary antennas	Board, chalk, duster		
25	6/4	29.02.2016	impedance of complementary and slot antennas, patch antennas	„		
26	7/4	01.03.2016	horn antennas, rectangular horn antennas	„		
27	1/6	02.03.2016	UNIT - 6 ANTENNA TYPES: Helical Antenna	„	Assignment-5	
28	2/6	03.03.2016	Yagi-Uda array	„		
29	3/6	04.03.2016	corner reflectors	„		
30	4/6	05.03.2016	parabolic reflectors, log periodic antenna	„		

31	5/6	08.03.2016	lens antenna, antenna for special applications – sleeve antenna	„		
32	6/6	09.03.2016	turnstile antenna, omni directional antennas	„		
33	7/6	10.03.2016	antennas for satellite antennas for ground penetrating radars	Board, chalk, duster		
34	8/6	11.03.2016	embedded antennas, ultra-wide band antennas	„		
35	9/6	17.03.2016	plasma antenna	„		
36	10/6	18.03.2016	high resolution data	„		
37	11/6	19.03.2016	intelligent antennas	„		
38	12/6	21.03.2016	antennas for remote sensing	„		
39	1/8	22.03.2016	UNIT - 7 & 8 RADIO WAVE PROPAGATION	„	Assignment-6	
40	2/8	23.03.2016	Introduction, Ground wave propagation	„		
41	3/8	24.03.2016	Ground wave propagation	„		
42	4/8	28.03.2016	free space propagation	„		
43	5/8	29.03.2016	ground reflection, surface wave	„		
44	6/8	30.03.2016	diffraction	„		
45	7/8	31.03.2016	TROPOSPHERE WAVE PROPAGATION: Troposcopic scatter	„	Assignment-7	
46	8/8	01.04.2016	Ionosphere propagation	„		
47	9/8	02.04.2016	electrical properties of the ionosphere	„		
48	10/8	04.04.2016	effects of earth's magnetic field	„		
49		05.04.2016	Revision	Board, chalk, duster	Assignment-8	
50		06.04.2016	Revision	„		
51		07.04.2016	Discussion on VTU question papers	„		
52		11.04.2016	Discussion on VTU question papers	„		

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CMR INSTITUTE OF TECHNOLOGY
Session wise – Course Plan
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Year : B. E 6 sem
 : Telecommunication Engineering
 10 EC /TE 64
 Week : 6 **TOTAL (Teaching)HOURS : 52**

NAME OF THE FACULTY : Dr Ananda Babu
DATE OF COMMENCEMENT : 27 – 01- 2016
DATE OF CLOSING : 25 -05-2016
CLASS STRENGTH : A and B Sections

Text Book Referred : A: Microwave Devices and Circuits by LIAO, Pearson Education
 B. Microwave Engineering, Annapurna Das TMH Publication
 C. Introduction to Radar Systems, MI Skolnik, 3 edition, TMH

Chapter Number (No. Hrs Planned for the chapter)	Topics Planned for the Session	Date	Teaching Aids Used	Assignment / Tests Planned for the chapter	Topics covered as per Plan?
Unit -1 A:Ch 3	Microwave Transmission Lines		Board /Project or		
	Transmission line equations and Solutions		“		
	Reflection and transmission coefficients, SWR		“		
	Impedance matching , smith Chart Solving Problems		“		
Unit -2 A Ch 4	Microwave Wave Guides and Components		“	Assignment 1	
	Rectangular wave guides		“		
	Circular wave guides		“		
	Cavities		“		
	Hybrid circuits		“		
Unit -2, A:Ch4	Directional Couplers, circulators and Isolators		“		
	Solving problems		“	Assignment 2 I Internal	
Unit 3 A :Ch7	Contd Transferred electron devices		“		
	Gunn effect Diodes		“		
A 8	Impatt diode contd		“		
	Baritt diodes contd		“		
	Solving Problems		“		
Unit 4, B Ch 6	MW Network Theory and Passive devices		“		
	Two port networks, Z ,Y and S parameters/Matrices Contd		“		
	Contd		“	Assignment 3	
Unit 5	Microwave Passive Devices		“		
	Adapters, Phase Shifters		“		
	Wave guide Tees. Magic Tees contd		“		
	contd		“		
UNIT -6 A 11	Strip Lines		“		

Chapter Number (No. Hrs Planned for the chapter)	Topics Planned for the Session	Date	Teaching Aids Used	Assignment / Tests Planned for the chapter	Topics covered as per Plan?
	Parallel strip lines		“		
	Coplanar striplines		“		
	Shielded striplines		“		
	Contd		“		
	contd		“	Assignment 4	
			“	II Internal	
Unit 7: C ch1	RADAR		“		
	Radar Equation		“		
	Block Diagram		“		
	Frequencies and Applications		“		
			“		
	Solving Problems		“		
	Solving problems		“		
Unit-8, C ch3	MTI and Pulse Doppler Radar		“		
	Digital MTI processor		“		
	MTD		“		
	Pulse Doppler radar		“	Assignment 5	
	Contd		“		
	Solving problems		“		
	contd				
	END			III Internal	
			“		
			“		

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Lesson Plan

Department of Electronics & Communication Engineering

SEMESTER	: VI	NAME OF THE FACULTY	: Mr. Harsha B.K.
BRANCH	: TCE	DATE OF COMMENCEMENT	: 18.01.2016
SUBJECT	: ITC	DATE OF CLOSING	: 21.05.2016
SUBJECT CODE	: 10TE65	CLASS STRENGTH	: 45
NO OF HRS/WK	: 5	TOTAL HRS	: 62

No	Chapter no (No of hrs planed for the chapter)	Date	Topics planned for the session	Teaching Aids	Assignments/Tests planned for the chapter	Topics covered As per plan
1	-	27-1	Model of communication system, Introduction to Probabilities, Joint probabilities,	Board, chalk, duster		
2	-	28-1	Probability distribution function, Random variables, Discrete random variables,	“_”		
3	-	29-1	Continuous random variables, Random process, Noise in communication system Perquisite	“_”		
4	1/1	30-01	Information theory: Introduction, Measure of information, Average information content of symbols in long independent sequences.	“_”		
5	2/1	01-02	Problems on information content, Calculation of entropy.	“_”		
6	3/1	03-02	Information rate, average information rate. Numerical calculations.	“_”		
7	4/1	04-02	Average information content of symbols in long dependent sequences.	“_”		
8	5/1	05-02	Problems.	“_”		
9	6/1	08-02	Markoff statistical model for information source.	“_”		
10	7/1	09-02	Entropy and Information rate of markoff source.	“_”		
11	8/1	10-02	Problems on markoff sources. Key points.	“_”	Assignment 1	
12	1/2	11-02	Source Coding: Introduction Encoding of the source output, Shannon's first theorem(Noiseless coding theorem)	“_”		
13	2/2	12-02	Shannon's encoding algorithm, Numericals.	“_”		
14	3/2	13-02	Shannon Fano encoding algorithm.	“_”		
15	4/2	15-02	Numericals	“_”		
16	5/2	16-02	Communication Channels,	“_”		
17	6/2	18-02	Discrete communication channels,	“_”		
18	7/2	22-02	Numericals	“_”		
19	8/2	23-02	Continuous channels.	“_”		
20	9/2	24-02	Numericals	“_”	Assignment 2	
21	1/3	25-02	Fundamental Limits on Performance: Source coding theorem,	“_”		
22	2/3	29-02	Huffman coding.	“_”		
23	3/3	01-03	Discrete memory less Channels,	“_”		
24	4/3	02-03	Numericals	“_”		
25	5/3	03-03	Mutual information,	“_”		

26	6/3	04-03	Channel Capacity.	“_”		
27	7/3	08-03	Channel Capacity contd.	“_”	Assignment 3	
28	1/4	09-03	Continuous channels: Channel Coding Theorem.	“_”		
29	2/4	10-03	Differential entropy.	“_”		
30	3/4	11-03	Mutual information for continuous ensembles.	“_”		
31	4/4	17-03	Numericals	“_”		
32	5/4	19-03	Channel capacity theorem	“_”		
33	6/4	21-03	Numericals	“_”		
34	7/4	22-03	Numericals	“_”		
35	8/4	23-03	Numericals	“_”	Assignment 4	
36	1/5	24-03	Introduction to Error Control Coding: Types of errors, examples.	“_”		
37	2/5	29-03	Types of Linear Block Codes	“_”		
38	3/5	30-03	Matrix description,	“_”		
39	4/5	31-03	Numericals	“_”		
40	5/5	01-04	Numericals	“_”		
41	6/5	02-04	Error detection and correction,	“_”		
42	7/5	04-04	Numericals	“_”		
43	8/5	05-04	Numericals	“_”		
44	9/5	06-04	Standard arrays and table look up for decoding.	“_”		
45	10/5	07-04	Numericals	“_”		
46	11/5	11-04	Numericals	“_”	Assignment 5	
47	1/6	12-04	Binary Cyclic Codes: Introduction to bcc	“_”		
48	2/6	15-04	Algebraic structures of cyclic codes,	“_”		
49	3/6	16-04	Encoding using an (n-k) bit shift register,	“_”		
50	4/6	18-04	Numericals	“_”		
51	5/6	20-04	Syndrome calculation, BCH codes.	“_”		
52	6/6	21-04	Numericals	“_”	Assignment 6	
53	1/7	23-04	Other Error Control Codes: RS Codes.	“_”		
54	2/7	28-04	Golay codes.	“_”		
55	3/7	29-04	Shortened cyclic codes,	“_”		
56	4/7	30-04	Burst error correcting codes,	“_”		
57	5/7	02-05	Burst and Random Error correcting codes.	“_”		
58	1/8	04-05	Convolution Codes: Introduction, Time domain approach	“_”	Assignment 7	
59	2/8	05-05	Transform domain approach	“_”		
60	3/8	06-05	State table, state transition table.	“_”		
61	4/8	07-05	State diagram. Code tree	“_”	Assignment 8	
62	5/8	10-05	Revision	“_”		

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Department of Telecommunication

SEMESTER :VI
BRANCH : TCE
SUBJECT : DSDV
SUBJECT CODE : 10EC667
NO OF HRS/WK : 5

NAME OF THE FACULTY : Ms Shweta Sharma
DATE OF COMMENCEMENT : 27.01.2016
DATE OF CLOSING : 11.5.2016
CLASS STRENGTH : 24
TOTAL HRS : 60

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignm ents/ Tests planned for the chapter	Topics covere d As per plan
1	1/1	28.01.16	Digital Systems and Embedded Systems	Board, chalk, duster		
2	2/1	30.01.16	Binary representation and Circuit Elements	„		
3	3/1	2.02.16	Real-World Circuits	„		
4	4/1	4.02.16	Real-World Circuits(cont.)	„		
5	5/1	5.02.16	Models	„		
6	6/1	8.02.16	Design Methodology	„		
7	1/2	9.02.16	Design Methodology(cont.)	„	Assignm ent- I	
8	2/2	10.02.16	Boolean Functions	Board, chalk, duster		
9	3/2	12.02.16	Boolean Algebra	„		
10	4/2	13.02.16	Boolean Algebra(cont.)	„		
11	5/2	15.02.16	Binary Coding	„		
12	6/2	16.02.16	Combinational Components and Circuits	„		
13	7/2	17.02.16	Combinational Components and Circuits(cont.)	„	Assignm ent -II	
14	1/3	22.02.16	Verification of Combinational Circuits	„		
15	2/3	23.02.16	Example Programs			
16	3/3	24.02.16	Unsigned Integers			

17	4/3	25.02.16	Unsigned Integers(cont.)			
18	5/3	26.02.16	Signed Integers	„		
19	6/3	1.03.16	Signed Integers(cont.)	„	Assignment –III	
20	7/3	2.03.16	Fixed and Floating-point Numbers	„		
21	1/4	3.03.16	Fixed and Floating-point Numbers(cont.), Tutorials	„		
22	2/4	4.03.16	Storage elements	„		
23	3/4	5.03.16	Storage elements(cont.)			
24	4/4	9.03.16	Counters	Board, chalk, duster		
25	5/4	10.03.16	Sequential Datapaths and Control	„		
26	6/4	11.03.16	Clocked Synchronous Timing Methodology	„		
27	1/5	17.03.16	Clocked Synchronous Timing Methodology(cont.)	„	Assignment –IV	
28	2/5	18.03.16	Example Programs	„		
29	3/5	21.03.16	Concepts, Memory Types	„		
30	4/5	22.03.16	Memory Types	„		
31	5/5	23.03.16	Memory Types(cont.)	„		
32	6/5	24.03.16	Memory Types(cont.)	„		
33	1/6	28.03.16	Error Detection and Correction,	Board, chalk, duster	Assignment -V	
34	2/6	30.03.16	ICs	„		
35	3/6	31.03.16	PLDs	„		
36	4/6	1.04.16	Packaging and Circuit Boards, Interconnection and Signal Integrity, Tutorials	„		
37	5/6	2.04.16	Embedded Computer Organization	„		
38	6/6	4.04.16	Instruction and Data	„		
39	7/6	6.04.16	Instruction and Data(cont.)	„		
40	1/7	7.04.16	Instruction and Data(cont.)	„		

41	2/7	11.04.16	Interfacing with memory	„		
42	3/7	12.04.16	Interfacing with memory(cont.)	„		
43	4/7	16.04.16	Example Programs	„		
44	5/7	18.04.16	I/O devices	„		
45	6/7	20.04.16	I/O devices(cont.)	„		
46	1/8	21.04.16	I/O devices(cont.)	„		
47	2/8	22.04.16	I/O controllers	„		
48	3/8	28.04.16	Parallel Buses	„		
49	4/8	29.04.16	Parallel Buses(cont.)	Board, chalk, duster		
50	5/8	30.04.16	Serial Transmission	„		
51	6/8	2.05.16	I/O software	„		
52	7/8	3.05.16	I/O software(cont.), Tutorials	„		
53		5.05.16	Revision of Unit -1	„		
54		6.05.16	Revision of Unit – 2	„		
55		7.05.16	Revision of Unit –3	„		
56		10.05.16	Revision of Unit –4	„		
57		11.05.16	Revision of Unit –5	„		
58			Revision of Unit –6	„		
59			Revision of Unit –7	„		
60			Revision of Unit -8	„		

Signature of faculty

Signature of HOD

Signature of Principal



Department of Computer Science and Engineering

SEMESTER : VI
BRANCH : EC/TC
SUBJECT : PROGRAMMING IN C++
SUBJECT CODE: 10TC661
NO OF HRS/WK : 5

NAME OF THE FACULTY : POONAM TIJARE
DATE OF COMMENCEMENT: 27 JAN 2016
DATE OF CLOSING : 11 MAY 2016
CLASS STRENGTH :
TOTAL HRS : 63

Session No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter	Topics covered As per plan
1	1/3	27/01/2016	Discussing Prerequisites Review of Functions Simple C and C++ Programs	Chalk & Talk		
2	2/3	28/01/2016	Simple C and C++ Programs cont..	„		
3	3/3	29/01/2016	Simple C and C++ Programs cont..			
4	1/8	1/02/2016	C++, AN OVERVIEW: Getting started, the C++ program,	„	Assignment- I	
5	2/8	2/02/2016	Pre-processor Directive	„		
6	3/8	4/02/2016	The Built-In Array Data Type	„		
7	4/8	5/02/2016	Dynamic Memory Allocation and Pointers	„		
8	5/8	8/02/2016	Dynamic Memory Allocation and Pointers	„		
9	6/8	9/02/2016	An Object – based Design, An Object-Oriented Design	„		
10	7/8	10/02/2016	An Exception – based Design	„		
11	8/8	12/02/2016	An array	„	Assignment -II	
12	1/8	13/02/2016	THE BASIC LANGUAGE Literal Constant, Variables,	„		
13	2/8	15/02/2016	Pointer Type, String Types	„		
14	3/8	16/02/2016	const Qualifier, Reference Types	„		

15	4/8	17/02/2016	the bool type, Enumeration types	”		
16	5/8	22/02/2016	Array types	”		
17	6/8	23/02/2016	Programs on arrays	”		
18	7/8	24/02/2016	The vector container type.	”		
19	8/3	25/02/2016	Programs on unit 2, review of unit2	”		
20	1/7	26/02/2016	OPERATORS: Arithmetic Operators, Equality	”	Assignm ent –III	
21	2/7	1/03/2016	Relational and Logical operators, Assignment operators	”		
22	3/7	2/03/2016	Increment and Decrement operator, The conditional Operator,	”		
23	4/7	3/03/2016	Bitwise operator, bitset operations.	”		
24	5/7	4/03/2016	Statements: if, switch	”		
25	6/7	5/03/2016	for Loop, while,	”		
26	7/7	9/03/2016	break, goto, continue statements. Review of unit 3	”		
27	1/7	10/03/2016	FUNCTIONS: Prototype, Argument pass ing	”	Assignm ent –IV	
28	2/7	11/03/2016	Types of functions	”		
29	3/7	17/03/2016	Programs on Argument pass ing	”		
30	4/7	18/03/2016	linear function.	”		
31	5/7	21/03/2016	Programs on linear function.	”		
32	6/7	22/03/2016	Recursion	”		
33	7/7	23/03/2016	Review on unit 4	”		
34	1/6	24/03/2016	EXCEPTION HANDLING: Throwing an Exception, Catching an exception,	”	Assignm ent -V	
35	2/6	28/03/2016	Programs on Throwing an Exception, Catching an exception,	”		
36	3/6	30/03/2016	Exception Specification and Exceptions and Design Issues.	”		
37	4/6	31/03/2016	Exception Specification and Exceptions and Design Issues.	”		
38	5/6	1/04/2016	Programs on Exception handling	”		
39	6/6	2/04/2016	Review of unit 5	”		

40	1/7	4/04/2016	CLASSES: Definition, Class Objects, Class Initialization, , Class Object	“		
41	2/7	6/04/2016	Programs on classes	”		
42	3/7	7/04/2016	Class constructor, Examples	”	Assignment -VI	
43	4/7	31/3/2016	The class destructor, Examples	”		
44	5/7	1/4/2016	Arrays of Objects, Examples	”		
45	6/7	4/4/2016	Vectors of Objects, Examples	”		
46	7/7	06/4/2016	Review on unit 6	”		
47	1/7	07/4/2016	Overload Operators,	”		
48	2/7	11/4/2016	Examples on Opearator Overloading	“	Assignment -VII	
49	3/7	12/4/2016	Operators ++ and --	”		
50	4/7	13/4/2016	Examples on Operators ++ and --	”		
51	5/7	16/4/2016	Operators new and delete.	”		
52	6/7	18/4/2016	Examples on Operators new and delete.	”		
53	7/7	20/4/2016	Review on unit 7	”		
54	1/7	21/4/2016	Multiple Inheritances	”	Assignment -VIII	
55	2/7	22/4/2016	Examples on Inheritances	”		
56	3/7	28/4/2016	public, private & protected inheritance,	“		
57	4/7	29/4/2016	Examples on public, private & protected inheritance	”		
58	5/7	30/4/2016	Class scope under Inheritance.	”		
59	6/7	2/5/2016	Cont...Class scope under Inheritance	”		
60	7/7	3/5/2016	Review on unit 8	”		
61	1/3	5/5/2016	Revision of Unit 1 & 2	”		
62	2/3	6/5/2016	Revision of Unit 3 & 4	”		
63	3/3	7/5/2016	Revision of Unit 5 & 6	”		

Syllabus for Internal Assessment Tests (IAT)*

IAT #	Syllabus
IAT-1	Class # 01 – 26
IAT-2	Class #27 – 53
IMPROVEMENT	Class # 1 - 60

* : See calendar of events for the schedules of IATs.

Literature:

Book Type	Code	Author & Title	Publication information	
			Edition // Publisher	ISBN #
Text Book	TB1	C++ Primer, S. B. Lippman & J. Lajoie,	3rd Edition, Addison Wesley, 2000.	ISBN-10: 0-321-71411-3; ISBN-13: 978-0-321-71411-4
References	RB1	C++ Program Design: An Introduction to Programming and Object- Oriented Design. Cohoon and Davidson,	3rd Edn. TMH publication. 2004.	ISBN-13: 978-0-07-292196-0, ISBN: 0-07-292196-X.
References	RB2	Object Oriented Programming using C++, R. Lafore,	Galgotia Publications, 2004.	ISBN-10: 0672323087; ISBN-13: 978-0672323089

Signature of Faculty
Principal

Signature of HOD

Signature of