

CMR INSTITUTE



OF TECHNOLOGY

Session wise – Course Plan

Department of Telecommunication Engineering

SEMESTER : VII

NAME OF THE FACULTY : SHARMILA KP

BRANCH : TCE

DATE OF COMMENCEMENT : 16.07/2017

SUBJECT : CCN

DATE OF CLOSING : 9.11.2017

SUBJECT CODE : 10EC71

CLASS STRENGTH : 55

NO OF HRS/WK: 5

TOTAL HRS : 52

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assign ments/ Tests planned for the chapter	Topics covere d As per plan
1.	<u>UNIT-1</u> <u>Introduction to</u> <u>computer</u> <u>network</u>	16/8	Introduction, Layered tasks, OSI Model	Board, chalk, duster		
2.		17/8	TCP/IP suite,	”		
3.		18/8	Addressing	”		
4.		19/8	Telephone and cable networks for data transmission			
5.		21/8	Telephone network			
6.		22/8	Dial up modem			
7.		23/8	DSL			
8.		24/8	Cable TV for data transmission			

9.	<u>UNIT-2 Data link control</u>	28/8	Introduction, Framing			
10		29/8	Flow and error control			
11		30/8	Protocols			
12		31/8	Noiseless channels			
13		1/9	Noisy channel			
14		4/9	HDLC			
15	<u>UNIT-3 Multiple access</u>	5/9	Introduction, CSMA			
16		6/9	CSMA/CD			
17		7/9	ALOHA			
18		8/9	Random access			
19		9/9	Controlled access			
20		11/9	Channelization			
21		12/9	TDMA, FDMA, CDMA			
22	<u>UNIT-4 Wired LAN</u>	13/9	Introduction, Ethernet			
23		14/9	IEEE standards			
24		15/9	Standard Ethernet			
25		22/9	Changes in the standards			
26		23/9	Fast Ethernet			
27		25/9	Giga bit Ethernet			
28		26/9	Wireless LAN			
29		27/9	IEEE 802.11			

30	<u>UNIT-5</u> <u>Connecting LAN</u>	28/9	Introduction, HUB, Repeater			
31		3/10	Bridges			
32		4/10	Routers			
33		6/10	Gateways			
34		7/10	Backbone networks			
35		9/10	Virtual LAN			
36		10/10	Membership and configuration			
37		11/10	Introduction, Logical addressing			
38	<u>UNIT-6</u> <u>Network layer</u>	12/10	Introduction, IPV4			
39		13/10	IPV6			
40		14/10	Comparison			
41		16/10	Transition from IPV4 to IPV6			
42		17/10	Tunneling, dual stack			
43	<u>UNIT-7</u> <u>Delivery</u>	23/10	Introduction, Forwarding			
44		24/10	Unicast routing protocols			
45		25/10	Distance vector routing protocol			
46		26/10	Link state routing protocol			
47		27/10	Multicast routing protocol			
48		28/10	Comparison			
49		30/10	Numerical problems based on routing			
50	<u>UNIT-8</u> <u>Transport layer</u>	31/10	Introduction, Process to process delivery			
51		2/11	UDP			

52		3/11	TCP			
53		4/11	DNS			
54		9/11	Resolution			
55		10/11	Revision			
56		11/11	Revision			
57		13/11	Revision			
58		14/11	Revision			
59		15/11	Revision			
60		16/11	Revision			
61						
62						

Signature of faculty

Signature of HOD

#132, AECS Layout, IT Park Road, Kundalahalli, Bangalore – 560 037
T:+9180 28524466 / 77

CMR
Institute of
Technology



CO-PO and CO-PSO MAPPING

Department of Telecommunication

SEMESTER : VII
BRANCH : TCE
SUBJECT : OFC
SUBJECT CODE : 10TE72
NO OF HRS/WK : 4

NAME OF THE FACULTY : S.Sujatha
DATE OF COMMENCEMENT : 07.08.2017
DATE OF CLOSING : 25.11.2017
CLASS STRENGTH : 101
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	7.08.17	Introduction, historical development, General system, Advantages, Disadvantages,	Board, chalk, duster		
2	2/1	8.08.17	Application of Optical fiber communication	„		
3	3/1	9.08.17	Optical fiber waveguides: Ray theory, Cylindrical fiber,	„		
4	4/1	10.08.17	Single mode fiber	„		
5	5/1	11.08.17	Cut-off wavelength, mode filed diameter	„		
6	6/1	9.08.17	Optical fibers: Fiber materials	„		
7	7/1	11.08.17	Photonic crystal, Fiber optic cables specialty fiber	„	Assignm ent- I	
8	1/2	12.08.17	Introduction, Attenuation, Absorption	Board, chalk, duster		
9	2/2	16.08.17	Scattering losses	„		
10	3/2	17.08.17	Bending losses	„		

11	4/2	18.08.17	Dispersion (Intermodal, Intra modal)	„		
12	1/3	19.08.17	Introduction, LEDs, LASER Diodes	„		
13	2/3	21.08.17	Photo Detectors, ,	„	Assignm ent -II	
14	3/3	22.08.17	Photo Detector noise	„		
15	4/3	23.08.17	Response time,			
17	5/3	24.08.17	Double Hetero junction structure			
17	6/3	28.08.17	Photo diodes			
18	7/3	29.08.17	comparison of photo detectors	„		
19	6/3	30.08.17	Introduction, Fiber alignment	„	Assignm ent –III	
20	1/4	31.8.17	joint loss	„		
21	2/4	4.09.17	Single mode fiber joints	„		
22	3/4	5.09.17	fiber splices	„		
23	4/4	6.09.17	Fiber connectors			
24	5/4	7.09.17	Fiber couplers	Board, chalk, duster		
25	1/5	09.09.17	Introduction, Optical Receiver operation	„		
26	2/5	11.09.17	Receiver sensitivity, Quantum limit	„		
27	3/5	12.09.17	Eye diagrams	„	Assignm nt –IV	
28	4/5	13.09.17	Coherent Detection,	„		
29	5/5	14.09.17	Burst mode Receiver operation	„		
30	6/5	19.09.17	Analog Receiver.	„		
31	1/6	15.09.17	Analog links: Introduction	„		

32	2/6		Overview of Analog links, CNR,	”		
33	3/6	22.09.17	Multichannel transmission techniques	Board, chalk, duster	Assignment -V	
34	4/6	23.09.17	RF over Fiber, Key link Parameters	”		
35	5/6	25.09.17	Radio over fiber links, Microwave photonics.	”		
36	6/6	26.09.17	Digital links: Introduction, point to point links	”		
37	7/6	27.09.17	system considerations, link power budget, resistive budget,	”		
38	8/6	28.09.17	shortwave length band, Transmission distance for single mode fibers,	”		
39	9/6	03.10.17	Power penalties, modal noise, chirping.	”		
40	1/7	04.10.17	WDM concepts, Overview of WDM operation	”		
41	2/7	06.10.17	WDM Principles, WDM standards,	”		
42	3/7	07.10.17	Mach- Zehender Interferometer, Multiplexer	”		
43	4/7	09.10.17	Isolators and Circulators, Direct thin film filters,	”		
44	5/7	10.10.17	Active optical components, MEMs Technology, Variable optical attenuators	”		
45	6/7	11.10.17	Tunable optical fibers, Dynamic gain equalizers,	”		
46	7/7	12.10.17	Optical drop multiplexers, Polarization controllers,	”		
47	8/7	13.10.17	Chromatic dispersion compensators, Tunable light sources.	”		
48	1/8	14.10.17	Optical Amplifiers	”		
49	2/8	16.10.17	Basic applications and types,	Board, chalk, duster		

50	3/8	2.11.17	Semiconductor optical amplifiers	„		
51	4/8	7.11.17	Erbium Doped Fiber Amplifiers	„		
52	5/8	9.11.17	Optical Networks: Introduction	„		
53	6/9	10.11.17	SONET/SDH, Optical Interfaces	„		

Signature of faculty

Signature of HOD

Signature of Principal

Department of Telecommunication

SEMESTER	: B.TECH 8 th sem 'A'	NAME OF THE FACULTY	: Miss Swathi R
BRANCH	: TCE	DATE OF COMMENCEMENT	: 16.08.2017
SUBJECT	: WIRELESS COMMUNICATION	DATE OF CLOSING	: 16.11.2017
SUBJECT CODE	: 10TE73	CLASS STRENGTH	: 45
NO OF HRS/WK	: 5	TOTAL HRS	: 50

Sessi on No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assignment s/ Tests planned for the chapter	Topics covered As per plan
1	1/1	16.08.17	Unit-1- INTRODUCTION TO WIRELESS COMMUNICATION SYSTEMS AND NETWORKS	Board, chalk, duster		
2	2/1	16.08.17	History and Evolution of wireless networks			
3	3/1	18.08.17	Development of wireless networks, Overview of OSI layer	„		
4	4/1	21.08.17	Different generations of cellular network – 1G AMPS	„		
5	5/1	21.08.17	AMPS calls			
6	6/1	23.08.17	2G, 3G & 4G Network	„	ASSIGNMENT – I	
7	1/2	23.08.17	Unit -2 – Common cellular system components			
8	2/2	24.08.17	Common cellular network components	„		
9	3/2	28.08.17	Hardware and software views of cellular network			
10	4/2	28.08.17	3G Cellular system components	„		
11	5/2	30.08.17	Cellular component identification	„		

12	6/2	30.08.17	Call establishment		ASSIGNMENT – II	
13	1/3	01.09.17	Unit –3 GSM and TDMA techniques	Board, chalk, duster		
14	2/3	05.09.17	GSM System overview			
15	3/3	05.09.17	GSM Network	„		
16	4/3	07.09.17	GSM System architecture	„		
17	5/3	07.09.17	GSM Channel concept		ASSIGNMENT – III	
18	6/3	09.09.17	GSM Identifiers	„		
19	1/4	12.09.17	Unit-4 GSM System operation	„		
20	2/4	12.09.17	Traffic cases			
21	3/4	22.09.17	Call Handoff			
22	4/4	22.09.17	Roaming	„	ASSIGNMENT – IV	
23	5/4	25.09.17	GSM Protocol architecture			
24	6/4	27.09.17	TDMA systems			
25	1/5	27.09.17	Unit 5 CDMA Technology			
26	2/5	03.10.17	CDMA Overview			
27	3/5	03.10.17	CDMA Channel concept			
28	4/5	06.10.17	CDMA channel concept	„		
29	5/5	09.10.17	CDMA overview			
30	6/5	09.10.17	CDMA Overview	„		
31	1/6	11.10.17	Unit 6 Wireless Modulation Techniques and Hardware			
32	2/6	11.10.17	Characteristics of air interface	„		
33	3/6	13.10.17	Path loss models	„	ASSIGNMENT – V	
34	4/6	16.10.17	Wireless coding techniques			
35	5/6	16.10.17	Digital modulation techniques			
36	6/6	23.10.17	OFDM,UWB			
37	7/6	23.10.17	Diversity techniques	Board, chalk, duster		

38	1/7	25.10.17	Unit-6 Wireless network architecture and operation	„		
39	2/7	27.10.17	Cellular concept , Cell fundamentals			
40	3/7	27.10.17	Capacity expansion technique	„		
41	4/7	30.10.17	Cellular backbone network			
42	5/7	30.10.17	Mobility ,Radio & power management	„		
43	6/7	02.11.17	Wireless network security	„		
44	1/8	04.11.17	UNIT 8 Introduction to wireless LAN 802.11X			
45	2/8	04.11.17	Evolution of wireless LAN	„		
46	3/8	10.11.17	Introduction to 802.15x – PAN application and architecture			
47	4/8	10.11.17	Introduction to broadband MAN – 802.16x technologies	„		
48		14.11.17	REVISION	„		
49		16.11.17	REVISION			
50		16.11.17	REVISION	„		

Signature of faculty

Signature of HOD

Signature of Principal

Department of Telecommunication

SEMESTER : VII
BRANCH : TCE
SUBJECT : DSPA
SUBJECT CODE: 10TE74
NO OF HRS/WK: 5

NAME OF THE FACULTY : Mrs.Rashmi K V
DATE OF COMMENCEMENT : 16.08.2017
DATE OF CLOSING : 25.11.2017
CLASS STRENGTH : 46
TOTAL HRS : 49

Sessi on No	Chapter no (No of hrs planned for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assign ments/ Tests planned for the chapter	Topics covere d As per plan
1	1/5	17.08.2017	Unit 1:Introduction to DSP: A Digital Signal-Processing System, The Sampling Process, Discrete Time Sequences	Board, chalk, duster	Assignm ent- I	
2	2/5	18.08.2017	Discrete Fourier Transform (DFT) and Fast Fourier Transform (FFT)	„		
3	3/5	19.08.2017	Linear Time-Invariant Systems, Digital Filters	„		
4	4/5	19.08.2017	Decimation and Interpolation	„		
5	5/5	21.08.2017	Problems	„		
6	1/10	24.08.2017	Unit 2:Architecture to Programmable DSP processors- Introduction, Basic Architectural Features, DSP Computational Building Blocks-Parallel Multiplier.	„		
7	2/10	28.08.2017	DSP Computational Building Blocks-Shifter, MAC unit	Board, chalk, duster		

8	3/10	29.08.2017	DSP Computational Building Blocks-ALU	„		
9	4/10	29.08.2017	Bus Architecture and Memory	Board, chalk, duster		
10	5/10	30.08.2017	Data Addressing Capabilities, Problems	„		
11	6/10	04.09.2017	Data Addressing Capabilities-Specialized Addressing modes	„	Assignment -II	
12	7/10	05.09.2017	Programmability and Program Execution	„		
13	8/10	06.09.2017	Speed Issues-Hardware Architecture, Parallelism, Pipelining	„		
14	9/10	06.09.2017	System level parallelism and pipelining	„		
15	10/10	07.09.2017	Features for External Interfacing	„		
16	1/9	11.09.2017	Unit 3-Programmable DSP processors :Introduction, Commercial Digital Signal-Processing	„		
17	2/9	12.09.2017	Data Addressing Modes of TMS320C54xx-Bus structure, CPU			
18	3/9	13.09.2017	Data Addressing Modes of TMS320C54xx-Immediate, Absolute, Accumulator, Direct Addressing	„		
19	4/9	13.09.2017	Data Addressing Modes of TMS320C54xx- Memory-mapped, Stack Addressing	„	Assignment -III	
20	5/9	14.09.2017	Circular Addressing, Problems for Addressing modes	„		
21	6/9	23.09.2017	Stack Addressing, Indirect, Problems for Addressing modes	„		
22	7/9	25.09.2017	Problems for Addressing modes	„		
23	8/9	26.09.2017	Memory Space of TMS320C54xx Processors	„		


24	9/9	26.09.2017	Program Control, Problems	”		
25	1/4	27.09.2017	Unit 4:Detail Study of TMS320C54X & 54xx Instructions and Programming	”		
26	2/4	04.10.2017	On-Chip peripherals, Interrupts of TMS320C54XX	”		
27	3/4	06.10.2017	Processors Pipeline Operation of TMS320C54xx Processor	Board, chalk, duster		
28	4/4	07.10.2017	Problems for Pipelining	”	Assignment –IV	
29	1/5	07.10.2017	Unit 5:Implementation of Basic DSP Algorithms: Introduction, The Q-notation, Problems for Q-notation	”		
30	2/5	12.10.2017	FIR Filters, Program for FIR Filter	”		
31	3/5	13.10.2017	IIR Filters, Program for IIR Filter	”		
32	4/5	14.10.2017	Interpolation filters, Program	”		
33	5/5	14.10.2017	Decimation Filters, Examples, Program	”	Assignment –V	
34	1/3	16.10.2017	Unit 6:Implementation of FFT Algorithms:Introduction, An FFT Algorithm for DFT Computation,	”		
35	2/3	24.10.2017	Overflow and Scaling, Bit-Reversed Index Generation	”		
36	3/3	25.10.2017	8-Point FFT Program implementation on the TMS320C54xx	”		
37	1/6	26.10.2017	Unit 7:Interfacing of Memory and I/O peripherals: Introduction, Memory Space Organization	”		
38	2/6	26.10.2017	External Bus Interfacing Signals, Memory Interface,	”		
39	3/6	27.10.2017	Problems for memory interface	”		
40	4/6	31.10.2017	Parallel I/O Interface, Programmed I/O	”		

41	5/6	02.11.2017	Interrupts and I/O	”		
42	6/6	03.11.2017	Direct memory access, Memory design examples	”		
43	1/7	03.11.2017	Unit 8:Interfacing and applications of DSP processors-Introduction, Synchronous Serial Interface	”		
44	2/7	04.11.2017	, A Multichannel buffered serial port (McBSP)	”		
45	3/7	13.11.2017	A CODEC Interface Circuit	”		
46	4/7	14.11.2017	CODEC-DSP Interface Example A DSP System	Board, chalk,		
47	5/7	15.11.2017	A DSP System, DSP Based Bio-telemetry Receiver’	”	Assignm ent –VI	
48	6/7	15.11.2017	A Speech Processing System	”		
49	7/7	16.11.2017	An Image Processing System.	”		

Signature of faculty

Signature of HOD

Signature of Principal

CMR Institute of Technology, Bangalore			
Department(s): ECE/TCE			
Semester: 07	Section(s): TCE(7A & B), ECE(7D)		Lectures/week: 05
IMAGE PROCESSING	10EC763/10TE754		
Course Instructor(s): Priya R			
Course duration: 16 Aug 2017 – 16 Nov 2017			

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	17/08/2017	Unit 1: DIGITAL IMAGE FUNDAMENTALS: What is Digital Image Processing?	Board, Chalk, Duster		
2	2/1	17/08/2017	Fundamental Steps in Digital Image Processing,	“		
3	3/1	18/08/2017	Components of an Image processing system,	“	Assignm ent-1	
4	4/1	19/08/2017	Elements of Visual Perception.	“		
5	5/1	21/08/2017	Applications	“		
6	1/2	22/8/2017	Unit 2: Image Sensing and Acquisition	“		
7	2/2	24/8/2017	Image Sampling and Quantization	“		
8	3/2	24/8/2017	Some Basic Relationships between Pixels	“	Assignm ent-2	
9	4/2	28/08/2017	Linear and Nonlinear Operations	“		
10	5/2	29/8/2017	Problems	“		
11	1/3	31/8/2017	Unit 3 :IMAGE TRANSFORMS: Two-dimensional orthogonal & unitary transforms, properties of unitary transforms,	”		
12	2/3	1/9/2017		Board, Chalk, Duster		

13	3/3	3/9/2017		“		
14	4/3	3/9/2017	Two dimensional discrete Fourier transform.	“	Assignment-3	
15	5/3	4/9/2017		“		
16	6/3	5/9/2017		”		
17	7/3	6/9/2017	Question paper problems			
	1/4	8/9/2017	Unit 4: Discrete cosine transform, sine transform			
	2/4	11/9/2017				
	3/4	11/9/2017	Hadamard transform			
	4/4	12/9/2017	Haar transform		Assignment-4	
	5/4	13/9/2017	Slant transform			
	6/4	15/9/2017	KL transform.			
	7/4	23/9/2017	Problems			
18	1/5	23/9/2017	Unit 5: IMAGE ENHANCEMENT: Image Enhancement in Spatial domain, Some Basic Gray Level Transformations,.	“	Assignment-5	
19	2/5	25/9/2017		“		
20	3/5	26/9/2017		“		
21	4/5	28/9/2017	Histogram Processing, Enhancement Using Arithmetic/Logic Operations	“		
22	5/5	4/10/2017		“		
23	6/5	4/10/2017		“		
24	7/5	6/10/2017		“		
25	1/6	7/10/2017	Unit 6: Basics of Spatial Filtering	“		
26	2/6	10/10/2017		“		
27	3/6	12/10/2017	Image enhancement in the Frequency Domain filters	“		
28	4/6	13/10/2017		“		
29	5/6	13/10/2017	Smoothing Frequency Domain filters	“		

30	6/6	14/10/2017	Sharpening Frequency Domain filters	“	Assignment-6	
31	7/6	17/10/2017	homomorphic filtering, problems	“		
32	1/8	24/10/2017	Unit 8:Color Fundamentals.,	“		
33	2/8	24/10/2017	Color Models	“		
34	3/8	25/10/2017	., Pseudo color Image Processing	“		
35	4/8	26/10/2017	processing basics of full color image processing	“	Assignment-7	
36	5/8	28/10/2017		“		
37	6/8	31/10/2017		“		
38	7/8	31/10/2017	Problems & Question paper revision	“		
39	1/7	2/11/2017	Unit 7: Model of image degradation/restoration process	“		
40	2/7	3/11/2017		“		
41	3/7	9/11/2017	noise models	“		
42	4/7	11/11/2017	Restoration in the Presence of Noise	Board, Chalk, Duster	Assignment-8	
43	5/7	11/11/2017	Only-Spatial Filtering, Periodic Noise Reduction by Frequency Domain Filtering	“		
44	6/7	13/11/2017		“		
45	7/7	14/11/2017	Linear Position-Invariant Degradations, inverse filtering	“		
46	8/7	15/11/2017		“		
47	9/7	16/11/2017	minimum mean square error (Weiner) Filtering	“		

Signature of faculty

Signature of HOD

Signature of Principal

Session wise – Course Plan
Department of Telecommunication

Semester : VII
Branch : TCE/ECE
Subject : Embedded System Design
Subject Code : 10EC765 / 10EC74
No Of Hrs/ Wk: 5

Name Of The Faculty : Bhumika Narang
Date Of Commencement : 6.08.2017
Date Of Closing : 5.11.2017
Class Strength : 131
Total Hrs : 60

Sessi on 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	16-08-17	Unit1: Introduction to Embedded System- Introducing Embedded Systems, Philosophy	Board & chalk		
2	2/1	18-08-17	Embedded Systems, Embedded System Design	„	Assignment- I	
3	3/1	19-08-17	Development Process	„		
4	4/1	21-08-17	Embedded design life cycle	„		
5	1/2	23-08-17	Unit 2: The Hardware Side: An Introduction, The Core Level	„		
6	2/2	23-08-17	Representing Information, Understanding Numbers	„		
7	3/2	28-08-17	Addresses, Instructions	„		
8	4/2	29-08-17	Registers-A First Look, Embedded Systems-A Register View, Register View of a Microprocessor	„		
9	5/2	30-08-17	Embedded Systems-An Instruction Set View	„	Assignment - II	
10	6/2	01-09-17	The Hardware Side: Storage Elements	„		
11	7/2	01-09-17	Finite-State Machines The concepts of State and Time, The State	„		

			Diagram			
12	8/2	05-09-17	Finite State Machines- A Theoretical Model.	„		
13	1/3	06-09-17	Unit 3: Memories and the Memory Subsystem: Classifying Memory, A General Memory Interface, ROM Overview	LCD Projector		
14	2/3	07-09-17	Static RAM Overview	„		
15	3/3	09-09-17	Dynamic RAM Overview	„		
16	4/3	09-09-17	Chip Organization, Terminology	„		
17	5/3	12-09-17	A Memory Interface in Detail, SRAM Design	„	Assignment – III	
18	6/3	13-09-17	DRAM Design	„		
19	7/3	14-09-17	DRAM Memory Interface	„		
20	8/3	22-09-17	The Memory Map, Memory Subsystem Architecture	„		
21	9/3	22-09-17	Basic Concepts of Caching, Designing a Cache System	„		
22	10/3	25-09-17	Dynamic Memory Allocation.	„		
23	1/4	26-09-17	Unit 4: Embedded Systems Design and Development : System Design and Development, Life-cycle Models	Board & chalk		
24	2/4	27-09-17	Life-cycle Models	„		
25	3/4	03-10-17	Problem Solving-Five Steps to Design, The Design Process	„		
26	4/4	03-10-17	Identifying the Requirements, Formulating the Requirements Specification	„		
27	5/4	04-10-17	The System Design Specification	„	Assignmnt – IV	
28	6/4	06-10-17	System Specifications versus System Requirements, Partitioning and Decomposing a System	„		
29	7/4	07-10-17	Functional Design	„		
30	8/4	09-10-17	Architectural Design	„		
31	9/4	10-10-17	Functional Model versus Architectural Model, Prototyping	LCD Projector		
32	10/4	11-10-17	Other Considerations, Archiving the Project.	„		

33	1/5&6	11-10-17	Unit 5 & 6: Real-Time Kernels and Operating Systems: Tasks and Things, Programs and Processes	LCD Projector		
34	2/5&6	12-10-17	The CPU is a resource	„		
35	3/5&6	13-10-17	Threads – Lightweight and heavyweight	„	Assignment - V	
36	4/5&6	14-10-17	Sharing Resources, Foreground/Background Systems	„		
37	5/5&6	16-10-17	The operating System, The real time operating system (RTOS)	„		
38	6/5&6	23-10-17	OS architecture	„		
39	7/5&6	23-10-17	Tasks and Task control blocks	„	Assignment - VI	
40	8/5&6	24-10-17	Tasks and Task control blocks	„		
41	9/5&6	25-10-17	Memory management revisited	„		
42	10/5&6	26-10-17	Memory management revisited	„		
43	1/7&8	27-10-17	Unit 7 & 8: Performance Analysis and Optimization: Performance or Efficiency Measures, Complexity Analysis	„		
44	2/7&8	28-10-17	The methodology	„		
45	3/7&8	30-10-17	Analyzing code	„	Assignment - VII	
46	4/7&8	30-10-17	Instructions in Detail	„		
47	5/7&8	02-11-17	Time, etc. – A more detailed look, Response Time	„		
48	6/7&8	03-11-17	Time Loading	„		
49	7/7&8	04-11-17	Memory Loading	„		
50	8/7&8	10-11-17	Evaluating Performance, Thoughts on Performance Optimization	Board & chalk	Assignment - VIII	
51	9/7&8	10-11-17	Performance optimization, Tricks of the Trade	„		
52	10/7&8	14-11-17	Hardware Accelerators	„		
53	11/7&8	15-11-17	Caches and Performance.	„		
54	12/7&8	16-11-17	Revision	„		

Signature of faculty
Literature:

Signature of HOD

Signature of Principal

Book Type	Code	Author & Title	Publication info	
			Edition & Publisher	ISBN #
Text Book1	TB1	Embedded Systems – A contemporary Design Tool , James K. Peckol	John Weily India Pvt. Ltd, 2008	978-81-265-2456-3
Reference Book1	RB1	Embedded Systems: Architecture and Programming , Raj Kamal	TMH. 2008	978-0-07-066764-8
Reference Book2	RB2	Embedded Systems Architecture – A Comprehensive Guide for Engineers and Programmers , Tammy Noergaard	Elsevier Publication, 2005	--
Reference Book3	RB3	Programming for Embedded Systems , Dreamtech Software Team	John Wiley India Pvt. Ltd, 2008	--