EEC

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CMR INSTITUTE OF TECHNOLOGY

Session wise – Course Plan

Department of Electrical & Electronics Engineering

SEMESTER	: V	NAME OF THE FACULTY	: Ms. SARANYA.S
BRANCH	: EEE	DATE OF COMMENCEMENT	: 7-08-17
SUBJECT	: Electrical Estimation & Costing	DATE OF CLOSING	: 25 -11-17
SUBJECT CODE	: 15EE553	CLASS STRENGTH	: 61
NO OF HRS/WK	: 5	TOTAL HOURS	: 55

Session No	Chapter no./No. of hours planned	Date	Topics planned for the session	Teaching Aids	Assignments/ Tests planned for the chapter	Topics Covered as per plan
1	1/8	7/8/17	**Module-1** Introduction to Estimation and Costing	Board, chalk, duster	Assignment – 1 – pre Requisities	
2	2/8	7/8/17	Electrical Schedule, Catalogues Market Survey and Source Selection,	"		
3	3/8	8/8/17	Recording of Estimates, Determination of Required Quantity of Material,	"		
4	4/8	10/8/17	Labour Conditions, Determination of Cost Material and Labour, Contingencies, Overhead Charges, Profit,	"		
5	5/8	12/8/17	Purchase System, Purchase Enquiry and Selection of Appropriate Purchase Mode,	PPT Presentation		
6	6/8	14/8/17	Comparative Statement, Purchase Orders	"		
7	7/8	14/8/17	Payment Of Bills, Tender Form	Board, chalk, duster	Assignment – 2	
8	8/8	16/8/17	General Idea about IE **Rule, Indian Electricity(IE) Act and IE Rules - 29,30,45,46,47,50,51,54,55,77**	PPT Presentation		

			and79.			
9	1/12	18/8/17	**Module-2** **Wiring**: Introduction	PPT Presentation		
10	2/12	21/8/17	Distribution of energy in a Building,	Board, chalk, duster		
11	3/12	22/8/17	PVC Casing and Capping, Conduit Wiring, Desirability's of Wiring.	"		
12	4/12	22/8/17	Types of cables used in Internal Wiring, Multi Strand Cables, Voltage Grading and Specification of Cables	"		
13	5/12	23/8/17	Main Switch and Distribution Board, Conduits and its accessories and Fittings.	"		
14	6/12	24/8/17	Lighting Accessories and Fittings,	"		
15	7/12	30/8/17	Types of Fuses, Size of Fuse, Fuse Units, Earthing Conductor	"		
16	8/12	31/8/17	General rules for wiring,	"		

17	9/12	31/8/17	Design of Lighting Points Number of Points, Determination of Total Load, Number of Sub –Circuits, Ratings	"	Assignment – 3	
18	10/12	01/9/17	Main Switch and Distribution Board and Size of Conductor. Current Density	"		
19	11/12	05/9/17	Layout	"		
20	12/12	07/9/17	Layout	PPT Presentation		
21	1/9	08/9/17	Module-3 Service Mains: Introduction, Types,	"		
22	2/9	08/9/17	Estimation of Overhead Service Connections.	Board, chalk, duster		
23	3/9	09/9/17	Estimation of Underground Service Connections.	"		
24	4/9	12/9/17	**Design and Estimation of Power Circuits:** Introduction, Important Considerations Regarding Motor Installation	"		
25	5/9	14/9/17	Wiring, Input Power, Input Current to Motors, Rating of Cables	"	Assignment – 4	
26	6/9	15/9/17	Rating of Fuse, Size of Conduit, Distribution Board,	"		
27	7/9	15/9/17	Main Switch and Starter.			

				"		
28	8/9	22/9/17	Estimation of power circuits with layout	"		
29	9/9	25/9/17	Estimation of power circuits with layout	"		
30	1/15	27/9/17	**Module-4** **Estimation of Overhead Transmission and Distribution Lines:** (Review of Line Supports, Conductor Materials, Size of Conductor for Overhead Transmission Line,	"		
31	2/15	28/9/17	Types of Insulators Cross Arms, Pole Brackets and Clamps, Guys and Stays,	Board, Chalk		
32	3/15	28/9/17	Conductors Configuration Spacing and Clearances, Span Lengths, Lightning Arrestors,	"		
33	4/15	3/10/17	Span Lengths, Lightning Arrestors,	"		
34	5/15	6/10/17	Phase Plates, Danger Plates, Anti Climbing Devices,	"		
35	6/15	9/10/17	Bird Guards, Beads of Jumpers,	"		
36	7/15	10/10/17	Muffs, Points to be Considered at the Time of Erection of Overhead Lines,	"		
37	8/15	10/10/17	Erection of Supports, Setting of Stays, Fixing of Cross Arms, Fixing of			

			Insulators,	"		
38	9/15	11/10/17	Conductor Erection, Repairing and Jointing of Conductors,	"	Assignment – 5	
39	10/15	13/10/17	Dead End Clamps, Positioning of Conductors and Attachment to Insulators, Jumpers, Tee-Offs,	"		
40	11/15	16/10/17	Earthing of Transmission Lines	"		
41	12/15	17/10/17	Guarding of Overhead Lines,	"		
42	13/15	17/10/17	Clearances of Conductor from Ground,	"		
43	14/15	23/10/17	Spacing Between Conductors, Important Specifications	"		
44	15/15	25/10/17	Estimation of Overhead lines	"		
45	1/6	27/10/17	**Module-5** **Estimation of Substations:** Main Electrical connection, Graphical Symbols for Various Types of Apparatus and Circuit Elements on Substation	"		
46	2/6	28/10/17	Substation main Connection Diagram,	"		
47	3/6	30/10/17	Single Line Diagram of Typical Substations,	"	Assignment – 6	
48	4/6	02/11/17	Single Line Diagram of Typical Substations,	"		

49	5/6	04/11/17	Equipment for Substation, Substation Auxiliaries Supply,	"		
50	6/6	9/11/17	Substation Earthing	"		
51	1/3	10/11/17	Revision of important topics	"		
52	2/3	14/11/17	Revision of important topics	"		
53	3/3	16/11/17	Revision of important topics	"		

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CMR INSTITUTE OF TECHNOLOGY

Session wise – Course Plan

Department of Electrical & Electronics Engineering

SEMESTER : V
BRANCH : EEE
SUBJECT : Power Electronics
SUBJECT CODE : 15EE53
NO OF HRS/WK : 5

NAME OF THE FACULTY : Jagadish Ku Patra
DATE OF COMMENCEMENT : 7/08/2017
DATE OF CLOSING : 25/11/2017
CLASS STRENGTH : 55/53
TOTAL HRS : 57

Session	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**	07/08/2017	Applications of Power Electronics, Types of Power Electronic Circuits			
2	**1/2**	08/08/2017	Peripheral Effects, Characteristics and Specifications of Switches.			
3	**1/3**	09/08/2017	Diode Characteristics, Reverse Recovery Characteristics			
4	**1/4**	10/08/2017	Power Diode Types, Silicon Carbide Diodes			
5	**1/5**	11/08/2017	Silicon Carbide Schottky Diodes, Diode Switched *RL* Load			
6	**1/6**	12/08/2017	Freewheeling Diodes with Switched RL Load.			
7	**1/7**	14/08/2017	Single-Phase Full-Wave Rectifiers		Assignment 1	

8	**1/8**	16/08/2017	Single-Phase Full-Wave Rectifier with RL Load			
9	**1/9**	17/08/2017	Single-Phase Full-Wave Rectifier with a Highly Inductive Load			
10	**1/10**	18/08/2017	Single-Phase Full-Wave Rectifier with a Highly Inductive Load			
11	**1/11**	19/08/2017	Numericals			
12	**2/1**	21/08/2017	Introduction, Power MOSFETs – Steady State Characteristics**.**			
13	**2/2**	22/08/2017	Switching Characteristics			
14	**2/3**	23/08/2017	Bipolar Junction Transistors – Steady State Characteristics			
	2/4	24/08/2017	Switching Characteristics, Switching Limits			
15	**2/5**	28/08/2017	IGBTs, MOSFET Gate Drive			
16	**2/6**	29/08/2017	BJT Base Drive, Isolation of Gate and Base Drives			
17	**2/7**	30/08/2017	Pulse transformers		Assignment 2	
18	**2/8**	31/08/2017	Opto-couplers			
19	**2/9**	01/09/2017	Numericals			
20	**2/10**	04/09/2017	Numericals			
21	**2/11**	05/09/2017	Numericals			
22	**3/1**	06/09/2017	Introduction, Thyristor Characteristics			
23	**3/2**	07/09/2017	Two-Transistor Model of Thyristor			
24	**3/3**	08/09/2017	Thyristor Turn- On, Thyristor Turn-Off			
25	**3/4**	09/09/2017	A brief study on Thyristor Types		Assignment 3	
26	**3/5**	11/09/2017	Series Operation of Thyristors, Parallel Operation of Thyristors			
27	**3/6**	12/09/2017	*di/dt*Protection, *dv/dt*Protection			
28	**3/7**	13/09/2017	DIAC			
29	**3/8**	14/09/2017	Thyristor Firing Circuits			
30	**3/9**	15/09/2017	Unijunction Transistor			
31	**3/10**	22/09/2017	Numericals			

32	**3/11**	23/09/2017	Numericals			
33	**4/1**	25/09/2017	**Controlled Rectifiers:** Introduction.			
34	**4/2**	26/09/2017	Single-Phase Full Converters			
35	**4/3**	03/10/2017	Single-Phase Dual Converters			
36	**4/4**	04/10/2017	Three Phase Full Converters			
37	**4/5**	06/10/2017	Three-Phase Dual Converters			
38	**4/6**	07/10/2017	**AC Voltage Controllers:** Introduction		Assignment 4	
39	**4/7**	09/10/2017	Single-Phase Full-Wave Controllers with Resistive Loads			
40	**4/8**	10/10/2017	Single- Phase Full-Wave Controllers with Inductive Loads			
41	**4/9**	11/10/2017	Three-Phase Full-Wave Controllers			
42	**4/10**	12/10/2017	Numericals			
43	**5/1**	13/10/2017	**DC-DC Converters:** Introduction			
44	**5/2**	14/10/2017	Principle of step down and step up chopper with RL load			
45	**5/3**	16/10/2017	Performance parameters			
46	**5/4**	17/10/2017	DC-DC converter classification		Assignment 5	
47	**5/5**	23/10/2017	**DC-AC converters**: Introduction			
48	**5/6**	24/10/2017	Principle of operation single phase bridge inverters			
49	**5/7**	25/10/2017	Three phase bridge inverters			
50	**5/8**	26/10/2017	Voltage control of single phase inverters			
51	**5/9**	27/10/2017	Harmonic reductions			
52	**5/10**	28/10/2017	Current source inverters			
53	**5/11**	30/10/2017	Numericals			
54		31/10/2017	Revision			
55		02/11/2017	Revision			
56		03/11/2017	Revision			
57		04/11/2017	Revision			

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CMR INSTITUTE OF TECHNOLOGY

Session wise – Course Plan

Department of Electrical & Electronics Communication

SEMESTER : IV
BRANCH : EEE
SUBJECT : Signals & Systems
SUBJECT CODE: 15EE54
NO OF HRS/Weak : 6

NAME OF THE FACULTY : Krishna Teja
DATE OF COMMENCEMENT: 7/08/2017
DATE OF CLOSING : 25/11/2017
CLASS STRENGTH : 55/53
TOTAL HRS : 70

Session 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 covered As per plan
1	1/1	7/08/2017	**MODULE-I:** Introduction to the subjects. What is signals? What is systems?	Board, chalk, duster		
2	2/1	8/08/2017	Classification Of Signals: Cont. And Discrete Time Signals. Sampling of analog Signals.	,,		
3	3/1	9/08/2017	Deterministic and Non-Deterministic Signals, Even and Odd Signals	,,		
4	4/1	9/08/2017	Even and Odd Signals	,,		
5	5/1	11/08/2017	Periodic and Non-Periodic Signals	,,		
6	6/1	12/08/2017	Periodic and Non-Periodic	,,		

7	7/1	14/08/2017	Energy Signals and Power Signals	,,		
8	8/1	14/08/2017	Energy Signals and Power Signals	,,	**A1**	
9	9/1	16/08/2017	Elementary signals	,,		
10	10/1	16/08/2017	Elementary Signals	,,		
11	11/1	16/08/2017	Operations on Signals	,,		
12	12/1	17/08/2017	Operations on Signals	,,		
13	13/1	19/08/2017	Problems on Signals	,,		
14	14/1	21/08/2017	Properties of Systems	,,		
15	15/1	22/08/2017	Properties of Systems	,,		
16	16/1	23/08/2017	Problems on Module-1	,,		
17	17/1	24/08/2017	Problems on Module-1	,,		
18	1/2	28/08/2017	**MODULE-II:** LTI System, Convolution Sum	,,		
19	2/2	28/08/2017	Problems on Convolution Sum	,,		
20	3/2	29/08/2017	Problems on Convolution Sum	,,	**A2**	
21	4/2	30/08/2017	Properties of Convolution	,,		
22	5/2	31/08/2017	Convolution Integral	,,		
23	6/2	01/09/2017	Problems on Convolution integral	,,		
24	7/2	04/09/2017	Graphical Method of Convolution	,,		
25	8/2	06/09/2017	Graphical Method of Convolution	,,		
26	9/2	07/09/2017	Properties of Convolution	,,		
27	10/2	08/09/2017	Problems and Doubt Solving on Convolution	,,		
28	11/2	09/09/2017	Problems and Doubt Solving on Convolution	,,		
29	1/3	10/09/2017	Solution of differential equations	,,		

30	2/3	11/09/2017	Solution of difference equations	,,	**A3**	
31	3/3	12/09/2017	Block diagram representations: Direct form I and II	,,		
32	4/3	13/09/2017	**MODULE-III-**Introduction to Fourier series	,,		
40	1/4	14/09/2017	CT Fourier Transform, Magnitude And Phase Spectrum	,,		
41	2/4	15/09/2017	Basic Problems on CTFT	,,	**A4**	
42	3/4	15/09/2017	Properties of CTFT	,,		
43	4/4	22/09/2017	Properties of CTFT	,,		
44	5/4	23/09/2017	Problems on CTFT	,,		
45	6/4	25/09/2017	Problems on CTFT	,,		
46	7/4	6/10/2017	**MODULE-IV**-DTFT, Magnitude And Phase Spectrum	,,		
47	8/4	8/10/2017	Basic Problems on DTFT	,,		
48	9/4	9/10/2017	Properties of DTFT	,,		
49	10/4	10/10/2017	Properties of DTFT	,,		
50	11/4	11/10/2017	Problems on DTFT	,,		
51	12/4	14/10/2017	Problems on DTFT	,,		
52	13/4	16/10/2017	Sampling Theorem and Reconstruction of signals	,,		
53	14/4	17/10/2017	Problems on Sampling Theorem	,,		
54	15/4	23/10/2017	Problems and Doubt solving	,,		
55	1/5	24/10/2017	**MODULE-V:** Z-Transform: Basic Concepts	,,		
56	2/5	25/10/2017	Problems on Z-Transform & Roc Concept	,,	**A5**	
57	3/5	26/10/2017	Problems on Z-Transform And Roc	,,		
58	4/5	27/10/2017	Properties of Z-Transform	,,		

59	5/5	28/10/2017	Properties of Z-Transform	,,		
60	6/5	30/10/2017	Problems based on Properties Of Z-Transform	,,		
61	7/5	31/10/2017	Inverse Z-Transform	,,		
62	8/5	2/11/2017	Inverse Z-Transform	,,		
63	9/5	3/11/2017	LTI system using Z-Transform	,,		
64	10/5	3/11/2017	LTI system using Z-Transform	,,		
65	11/5	3/11/2017	Unilateral Z-Transform	,,		
66	12/5	4/11/2017	Problems	,,		
67	13/5	4/11/2017	Problems and doubt solving	,,		
68	--		Solving VTU Questions	,,		
69	--		Solving VTU Questions	,,		
70	--		TEST			

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CMR INSTITUTE OF TECHNOLOGY

Session wise – Course Plan

Department of EEE

SEMESTER : V
BRANCH : EEE
SUBJECT : MANAGEMENT & ENTREPRENEURSHIP
SUBJECT CODE: 15EE51
NO OF HRS/WK: 5

NAME OF THE FACULTY : Mrs. Himani Sharma
DATE OF COMMENCEMENT : 07-08-2017
DATE OF CLOSING : 15-11-2017
CLASS STRENGTH : 55
TOTAL HRS : 50 Hours

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**	07/08/2017	**Module 1:** Introduction to Management	Board, chalk, duster		
2	**1/2**	08/08/2017	Meaning & Definition of Management	,,		
3	**1/3**	09/08/2017	Nature & Characteristics of Management (Management as an art, science & profession)	,,		
4	**1/4**	10/08/2017	Importance of Management	,,		
5	**1/5**	11/08/2017	Management & Administration	,,		
6	**1/6**	12/08/2017	Roles & Levels of	,,		

			Management			
7	**1/7**	14/08/2017	Functions of Management	CASE STUDY		
8	**1/8**	16/08/2017	Planning: Nature, Importance & Purpose	Board, chalk, duster		
9	**1/9**	17/08/2017	Planning Process & Types of Plans	,,		
10	**1/10**	18/08/2017	Decision Making & Steps in decision making	,,		
11	**1/11**	19/08/2017	Recapitulation of Module 1		Assignment 1	
12	**2/1**	21/08/2017	Module 2: Nature & Purpose of organizing	,,		
13	**2/2**	22/08/2017	Principles & Types of organization	,,		
14	**2/3**	23/08/2017	Span of control-MBO & MBE	,,		
	2/4	24/08/2017	Staffing-Selection & Recruitment	,,		
15	**2/5**	28/08/2017	Meaning & Nature of Directing	,,		
16	**2/6**	29/08/2017	Leadership Styles	CASE STUDY		
17	**2/7**	30/08/2017	Motivation Theories	PPT		
18	**2/8**	31/08/2017	Communication-Meaning & Importance	Board, chalk, duster		
19	**2/9**	01/09/2017	Coordination-Meaning, Importance & Techniques	,,		
20	**2/10**	04/09/2017	Meaning & Steps in controlling	,,		
21	**2/11**	05/09/2017	Recapitulation of Module 2		Assignment 2	
22	**3/1**	06/09/2017	Module 3: Meaning of Social Responsibility	PPT		
23	**3/2**	07/09/2017	Responsibility Towards different groups	,,		
24	**3/3**	08/09/2017	Social Audit , Business Ethics	,,		
25	**3/4**	09/09/2017	Corporate Governance	CASE STUDY		

26	**3/5**	11/09/2017	Entrepreneurship- Meaning & Evolution of concept & Importance	Board, chalk, duster		
27	**3/6**	12/09/2017	Characteristics of successful entrepreneurs	Quiz		
28	**3/7**	13/09/2017	Classification for Entrepreneurs, Intra-preneur	Board, chalk, duster		
29	**3/8**	14/09/2017	Myths of Entrepreneurship & Entrepreneurial Development Models	,,		
30	**3/9**	15/09/2017	Problems faced by Entrepreneurs and capacity building for Entrepreneurship	,,		
31	**3/10**	22/09/2017	Recapitulation of Module 1	,,		
32	**3/11**	23/09/2017	Recapitulation of Module 2	,,		
33	**4/1**	25/09/2017	Module 4: Role of Small Scale Industries	,,		
34	**4/2**	26/09/2017	Concepts and definitions of SSI Enterprises	,,		
35	**4/3**	03/10/2017	Government policy and development of the Small Scale sector in India	Board, chalk, duster		
36	**4/4**	04/10/2017	Growth and Performance of Small Scale Industries in India	PPT		
37	**4/5**	06/10/2017	Sickness in SSI sector, Problems for Small Scale Industries	Board, chalk, duster		
38	**4/6**	07/10/2017	Impact of Globalization on SSI	,,		
39	**4/7**	09/10/2017	Impact of WTO/GATT on SSIs, Ancillary Industry and Tiny Industry	GD		
40	**4/8**	10/10/2017	Institutional Support for Business Enterprises	Board, chalk, duster		
41	**4/9**	11/10/2017	Schemes of Central–Level Institutions, State-Level Institutions	"	Assignment-3	
42	**4/10**	12/10/2017	Recapitulation of Module 4			

43	**5/1**	13/10/2017	Module5: Meaning of Project, Project Objectives & Characteristics	,,		
44	**5/2**	14/10/2017	Project Identification-Meaning & Importance	,,		
45	**5/3**	16/10/2017	Project Life Cycle, Project Scheduling	,,		
46	**5/4**	17/10/2017	Capital Budgeting, Generating an Investment Project Proposal	,,		
47	**5/5**	23/10/2017	Project Report-Need and Significance of Report, Contents, Formulation	,,		
48	**5/6**	24/10/2017	Project Analysis-Market, Technical, Financial, Economic, Ecological, Project Evaluation and Selection	CASE STUDY		
49	**5/7**	25/10/2017	Project Financing, Project Implementation Phase	Board, chalk, duster		
50	**5/8**	26/10/2017	Human & Administrative aspects of Project Management, Prerequisites for Successful Project Implementation	,,		
51	**5/9**	27/10/2017	New Control Techniques-PERT and CPM	,,		
52	**5/10**	28/10/2017	Steps involved in developing the network	,,		
53	**5/11**	30/10/2017	Uses and Limitations of PERT and CPM	,,		
54		31/10/2017	Recapitulation of Module 5			
55		02/11/2017	Discussion of VTU Questions			
56		03/11/2017	REVISION			
57		04/11/2017	REVISION			

Literature:

Book Type	Code	Author & Title	*Publication info*	
			Edition & Publisher	**ISBN #**
Text Book	TB 1	Principles of Management – P.C Tripathi, P.N Reddy,	McGraw Hill Education, 6th Edition, 2017	ISBN-13:978-93-5260-535-4
Text Book	TB 2	Entrepreneurship Development Small Business Enterprises	Poornima M Charantimath, Pearson Education 2008	ISBN 978-81-7758-260-4
References	RB1	Dynamics of Entrepreneurial Development and Management	HPH 2007, Vasant Desai	ISBN: 978-81-8488-801-2
References	RB2	Essentials of Management: An International, Innovation and Leadership perspective	Harold Koontz, Heinz Weihrich McGraw Hill Education, 10th Edition 2016	ISBN- 978-93-392-2286-4

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CMR INSTITUTE OF TECHNOLOGY

Session wise – Course Plan

Department of Electrical & Electronics Engg

SEMESTER : V

BRANCH : EEE

SUBJECT : MC

SUBJECT CODE : 15EE52

NO OF HRS/WK : 6

NAME OF THE FACULTY : Vijayalaxmi A

DATE OF COMMENCEMENT : 07.08.2017

DATE OF CLOSING : 21.11.2017

CLASS STRENGTH : 90

TOTAL HOURS : 59

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	1/6	7/8/2017	Introduction to subject and syllabus of MC 8051.	Board &	Prerequisite	

				chalk	Assignment	
2	1/6	8/8/2017	Revision of Number system. Conversion of numbers.	,,		
3	1/15	9/8/2017	Inside the computer. Bus	,,		
4	1/15	11/8/2017	Internal working of computer.	,,		
5	1/15	12/8/2017	Microcontroller and embedded systems.	,,		
6	1/15	14/8/2017	CISC and RISC, Von Neumann and Harvard architecture.	,,	Assignment- I	
7	1/15	16/8/2017	Difference between Microcontroller and microprocessor.	,,		
8	1/15	17/8/2017	Architecture of 8051	,,		
9	1/15	19/8/2017	PSW and Flag bits.	,,		
10	1/15	21/8/2017	Register banks and stack memory.	,,		
11	1/15	22/8/2017	Internal memory organization of 8051	,,		
12	1/15	23/8/2017	Pins of 8051	,,		
13	1/15	24/8/2017	Memory address decoding.	,,		
14	1/15	29/8/2017	8031/51 interfacing with external ROM and RAM	,,		
15	1/15	30/8/2017	8051 Addressing modes.	,,	Assignment -II	
16	2 /10	31/8/2017	Introduction to 8051 assembly programming,	,,		

17	2/10	01/9/2017	Assembling and running an 8051 program	,,		
18	2/10	04/9/2017	Data types and Assembler directives.	,,		
19	2/10	05/9/2017	Arithmeticinstruction.	,,		
20	2 /10	06/9/2017	Logic instructions	,,		
21	2 /10	07/9/2017	programs	,,		
22	2 /10	08/9/2017	Jump , loop instructions	,,	Assignment –III	
23	2 /10	09/9/2017	Call instructions.	,,		
24	2 /10	11/9/2017	Programs	,,		
25	2 /10	12/9/2017	I/O port programming.	,,		
26	3 /12	13/9/2017	Data types and time delay in 8051C,	,,		
27	3 /12	14/9/2017	Programs on delay subroutine.	,,		
28	3 /12	15/9/2017	IO programming in 8051C	,,	Assignmnt –IV	
29	3/12	22/9/2017	Logic operations in 8051 C,	,,		
30	3/12	23/9/2017	Programs on logic operations.	,,		
31	3/12	25/9/2017	Data conversion program in 8051 C,	,,		
32	3/12	26/9/2017	Accessing code ROM space in 8051C,	,,		

33	3/12	27/9/2017	Data serialization using 8051C	,,		
34	3/12	28/9/2017	Programming 8051 timers	,,	Assignment -V	
35	3/12	03/10/2017	Counter programming,	,,		
36	3/12	04/10/2017	Programming timers 0 and 1 in 8051 C.■	,,		
37	3/12	06/10/2017	Programs	,,		
38	4/11	7/10/2017	Basics of serial communication	,,		
39	4/11	9/10/2017	8051 connection to RS232	,,		
40	4/11	10/10/2017	8051 serial port programming in assembly	,,		
41	4/11	11/10/2017	serial port programming in 8051 C	,,		
42	4/11	12/10/2017	8051 interrupts,	,,	Assignment -VI	
43	4/11	14/10/2017	Programming timer,	,,		
44	4/11	16/10/2017	external hardware interrupt	,,		
45	4/11	17/10/2017	serial communication interrupt	,,		
46	4/11	23/10/2017	Interrupt priority in 8051/52,	,,		
47	4 /11	24/10/2017	Interrupt programming in C.	,,		
48	4/11	26/10/2017	LCD interfacing	,,	Assignme	

					nt -VII	
49	5/11	27/10/2017	Keyboard interfacing.	,,		
50	5 /11	28/10/2017	ADC 0808 interfacing to 8051,	,,		
51	5 /11	30/10/2017	Serial ADC Max1112 ADC interfacing to 8051, DAC interfacing	,,		
52	5 /11	31/10/2017	Sensor interfacing and signal conditioning	,,		
53	5 /11	03/10/2017	Motor control: Relay, PWM	,,		
54	5 /11	04/11/2017	stepper motor:Relays and opt isolators	,,		
55	5 /11	09/11/2017	stepper motor interfacing,	,,		
56	5 /11	10/11/2017	DC motor interfacing and PWM	,,	Assignme nt -VIII	
57	5 /11	13/11/2017	Programming the 8255,	,,		
58	5 /11	15/11/2017	8255 interfacing	,,		
59	5 /11	16/11/2017	C programming for 8255	,,		

Signature of faculty Signature of HOD Signature of Principal

INP

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CMR INSTITUTE

OF TECHNOLOGY

Session wise – Course Plan

Department of Electrical & Electronics Engineering

SEMESTER :V	NAME OF THE FACULTY : Mr. Sumit Mohanty
BRANCH :EEE	DATE OF COMMENCEMENT :23-08-17
SUBJECT :Introduction to Nuclear Power	DATE OF CLOSING :25-11-17
SUBJECT CODE : 15EE551	CLASS STRENGTH : 40
NO OF HRS/WK : 3	TOTAL HRS : 40

	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**	23/8/17	**Introduction**:Introduction to Nuclear Power, Need & necessity of Nuclear Power, Earth's Internal Heat			
2.	**2/1**	28/8/17	Earth's Internal Heat Generation,			
3.	**3/1**	30/8/17	Earth's Energy Flow, Thermal Energy Resources			
4.	**4/1**	31/8/17	Fission Process, Introduction to Nuclear Reactors			
5.	**5/1**	31/8/17	Basic Components of a Nuclear Reactor, Thermal Reactors, Fast Reactors			
6.	**6/1**	01/09/17	Thermal Reactors, Fast Reactors			
7.	**1/2**	05/09/17	**Cooling Reactors:** Introduction, General Features of a Reactor Coolant			
8.	**2/2**	07/09/17	Principles of Heat Transfer, Gaseous Coolants, Liquid Coolants, Boiling Coolants		Assignment 1	
9.	**3/2**	08/09/17	**Loss of Cooling:** Introduction, The Electric Kettle			
10.	**4/2**	08/09/17	Pressurized-Water Reactor			
11.	**5/2**	09/09/17	Boiling-Water Reactor			
12.	**6/2**	12/9/17	CANDU Reactor			
13.	**7/2**	14/9/17	Gas-Cooled Reactors**.**		Assignment 2A	
14.	**8/2**	15/9/17	Sodium- Cooled Fast Reactor			
15.	**9/2**	15/9/17	QP Revision		Assignment	

					2B	
16.	**1/3**	22/9/17	**Loss-of-Cooling Accidents:** Introduction			
17.	**2/3**	25/9/17	Incidents in Light water cooled Reactors			
18.	**3/3**	27/9/17	Incidents in Heavy Water Moderated Reactors			
19.	**4/3**	28/9/17	Incidents in Gas-Cooled Reactors			
20.	**5/3**	28/9/17	Incidents in Liquid Metal-Cooled Fast Reactors			
21.	**6/3**	03/10/2017	QP Revision			
22.	**1/4**	6/10/2017	**Postulated Severe Accidents Introduction**: Introduction		Assignment 3	
23.	**2/4**	9/10/2017	Postulated Severe Accidents in Water Cooled Reactors, Specific Phenomena relating to Severe Accidents			
24.	**3/4**	10/10/2017	Severe Accidents in other Reactor Types			
25.	**5/4**	10/10/2017	Fission Product Dispersion following Containment Failure			
26.	**6/4**	11/10/2017	**Cooling during Fuel Removal and Processing**: Introduction			
27.	**7/4**	13/10/2017	Refueling, Spent Fuel Storage and Transport			
28.	**8/4**	16/10/17	Reprocessing Plant			
29.		17/10/2017	QP Revisions			
30.	**1/5**	17/10/2017	**Cooling and Disposing of the Waste**: Introduction, Classification of Waste Products			
31.	**2/5**	23/10/17	Fission Products and Their Biological Significance		Assignment 4	

32.	**3/5**	25/10/17	Options for Nuclear Waste Disposal,			
33.	**4/5**	27/10/2017	Long-Term Storage and Disposal of Spent Nuclear Fuel			
34.	**5/5**	28/10/17	Storage and Disposal of Fission Products from Reprocessing Plants, Disposal of other Materials.			
35.	**6/5**	28/10/17	**Fusion Energy -Prospect for the Future**: Introduction, The Fusion Process			
36.	**7/5**	30/10/17	Confinement, Current Technical Position, Conclusions			
37.		2/11/17	QP Revision			
38.		4/11/17	QP Revision			

Signature of faculty Signature of HOD Signature of Principal