

ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS)





LESSON PLAN

Faculty Name : M SURESH

Subject : Power Plant and Energy Engineering

Academic year : 2017-2018 Year/Semester : IV/ VII - A Sec Subject Code : 711MET05

Total no of Hrs: 60

SL NO	CLASS PERIOD/HOUR	TOPICS	REMARKS
WEE		UNIT I- INTRODUCTION TO POWER PLANTS	
WEE		AND BOILERS	
1	Monday 3 rd	Introduction	Correpleted
2	Monday 6 th	Layout of Steam, Hydel	Completed
3	Tuesday 4 th	Layout of Diesel, MHD	Completed
4	Wednesday 7th	Nuclear Power Plants	Completal
WEE			Completed
5	Monday 3 rd	Gas turbine Power	Computed
6	Monday 6 th	Combined Power cycles	Complekel
7	Tuesday 4 th	comparison and selection	Completel
8	Wednesday 7 th	Load duration Curves	Completies
WEE			
9	Monday 3 rd	Steam boilers and cycles	Compleke
10	Monday 6 th	High pressure Boilers	Complekel
11	Tuesday 4 th	Super Critical Boilers	Computed
12	Wednesday 7 th	Fluidized Bed Boilers	Completes
WEE	EK-4	UNIT II- STEAM POWER PLANT	
13	Monday 3 rd	Fuel and ash handling & types	Completes Completes
14	Monday 6 th	Combustion Equipment for burning coal	completes
15	Tuesday 4 th	Combustion Equipment for burning coal	Completeel
16	Wednesday 7 th	Types of fuel burner	Completed
WEI			
17	Monday 3 rd	Mechanical Stokers.	Completed
18	Monday 6 th	Pulveriser & types	Completel
19	Tuesday 4 th	Electrostatic Precipitator & types	completed
20	Wednesday 7 th	Electrostatic Precipitator & types	completes
WEI	EK-6		
21	Monday 3 rd	Draught- Different Types,	Completes
22	Monday 6 th	Draught- Different Types,	completes
23	Tuesday 4 th	Surface condenser- Different Types	Camplely
24	Wednesday 7 th	Cooling Towers	Completes
		UNIT III- NUCLEAR AND HYDEL POWER	
WE	EK-7	PLANTS	1
25	Monday 3 rd	Nuclear Energy	Complety
26	Monday 6 th	Fission Reaction	Complety
27	Tuesday 4 th	Fusion Reaction	Complety
28	Wednesday 7 th	Types of Reactors	completed
WE.	EK-8		
29	Monday 3 rd	Construction of Nuclear reactors	Completed Completed
30	Monday 6 th	Pressurized water reactor	Completal

31	Tuesday 4 th	Boiling water reactor	Completes
32	Wednesday 7 th	Waste disposal and safety	Completes
WEE			
33	Monday 3 rd	Hydel Power plant, Essential elements	Completes Completes Completes Completes
34	Monday 6th	Selection of turbines	Commission
35	Tuesday 4 th	Governing of Turbines	condition
36	Wednesday 7th	Micro hydel developments	Cemulator
WEE	EK-10	UNIT IV- DIESEL AND GAS TURBINE POWER PLANTS	
37	Monday 3 rd	Types of Diesel Plants	Complete
38	Monday 6 th	Components	Completes Completes Completes
39	Tuesday 4 th	Selection of Engine type	Cemuleka
40	Wednesday 7th	Applications	Committee
WEI	EK-11		Cen
41	Monday 3 rd	Gas turbine power plant	Completes Completes Completes
42	Monday 6 th	Layout of Gas turbine power plant	Completes
43	Tuesday 4 th	Fuels	completes
44	Wednesday 7 th	Gas turbine material	Completer
WEI	EK-12		
45	Monday 3 rd	Open and closed cycles	Complete
46	Monday 6th	Reheating - Regeneration	Cemplete
47	Tuesday 4 th	Intercooling	Complete
48	Wednesday 7 th	Combines cycle	ampletes
WEI	EK-13	UNIT V- RENEWABLE ENERGY& ECONOMICS OF POWER PLANTS	
49	Monday 3 rd	Bio Energy, Biomass, Biogas, Source, Composition	Complete
50	Monday 6 th	Wind Energy, Wind Data and Energy Estimation - wind Energy Conversion Systems	Complete
51	Tuesday 4 th	Bio Energy, Biomass, Biogas, Source	remplety
52	Wednesday 7th	Geo thermal	remoletes
WEI	EK-14		
53	Monday 3 rd	OTEC- Tidal energy	Complete
54	Monday 6 th	Solar central receiver system (Solar Power Tower plants)	Cempleta
55	Tuesday 4 th	Cost of electric Energy	Cemplela
56	Wednesday 7 th	Fixed and operating costs- Energy rates	ampleta
WE	EK-15		
57	Monday 3 rd	Types of tariffs	Complete
58	Monday 6 th	Economics of load sharing	complete
59	Tuesday 4 th	Economics of load sharing	complete
60	Wednesday 7 th	Comparison of various power plants.	complet

Prepared by

(M SURESH)

Asst. Prof./Mech

Approved by

(HOD/ MECH)

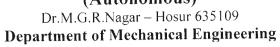
PROFESSOR & HEAD

Department of Mechanical Engineering Adhiyamaan College of Engineering (Autonomous) Dr. M.G.R. Nagar, HOSUR - 835 109



ADHIYAMAAN ENGINEERING COLLEGE

(Autonomous)





LESSON PLAN

Faculty Name

: S.SHYLIN H. JOSE

Subject Code : 415MET05

Subject

: MANUFACTURING TECHNOLOGY - II

Total no of Hrs: 45

Academic year

: 2017 - 18

Semester

: IV/C

SL.NO	CLASS HOURS	TOPICS	REMARKS
WEEK:1		Unit – I	
1	Tuesday 4 th	Introduction	Completed Completed
2	Wednesday 4 th	Material removal process.	completes
3	Friday 6 th	Types of machine tools	completed
4	Friday 7 th	Importance of tool angles	completed
WEEK:2			,
1	Tuesday 4 th	Theory of metal cutting	Completes
2	Wednesday 4 th	Chip formation, Orthogonal cutting	Completed
3	Friday 6 th	Cutting tool materials	complete
4	Friday 7 th	Tool wear, Tool life	Complet e
WEEK:3	T Hady		0
1	Monday 4 th	Surface finish, cutting fluids.	Complated
1	itionad 1	Unit II	4
2	Wednesday 2 nd	Introduction, centre lathe	Complete
3	Thursday 7 th	Constructional features, cutting tool geometry	Condicto
4	Friday 3 rd	Taper turning, thread cutting, special	Company
4	Tilday 5	attachments	complete
WEEK:4		attueriments	4
1	Tuesday 4 th	Machining time and power estimation	Complete
2	Wednesday 4 th	Capstan and turret lathes	Courselle
3	Friday 6 th	Automats, Single spindle.	countie
	Friday 7 th	Swiss type Automatic .	and ode
4	Friday /	Swiss type Automatic .	Congress
WEEK:5	70 J 4 th	Multi spindle Automatic screw type	Complete
<u>l</u>	Tuesday 4 th	Turret indexing mechanism	0
2	Wednesday 4 th		Co wyler
3	Friday 6 th	Bar feeding mechanism Unit III,	complex
	-th		- alada
4	Friday 7 th	Reciprocating machine tools	complet
WEEK:6	th	NOW TO LOW	
1	Tuesday 4 th	Milling and types	Cash
2	Wednesday 4 th	Milling cutters and operations	co my ore
3	Friday 6 th	Drilling, quill mechanism	Complete
4	Friday 7 th	Reaming boring tapping	amplet
WEEK:7			V
1	Tuesday 4 th	Sawing machine hack saw, band saw	complete
2	Wednesday 4 th	Broaching machines	asyle of
3	Friday 6 th	Broach construction pull and push	Completed
4	Friday 7 th	Surface and continuous broaching	complet

WEEK:8	i	Unit IV	
1	Tuesday 4 th	Abrasive process	Completed Completed Completed
2	Wednesday 4 th	Grinding wheel, specification and selection	Completel
3	Friday 6 th	Types of grinding process	complete &
4	Friday 7 th	Cylindrical grinding, centreless grinding	completed
WEEK:9			
1	Tuesday 4 th	Honing, lapping	completed
2	Wednesday 4 th	Super finishing, polishing	Completed
3	Friday 6 th	Buffing, Abrasive jet machining	Corp leted
4	Friday 7 th	Gear cutting, forming	Completed
WEEK:10			0 01
1	Tuesday 4 th	Generation and shaping	Completed
2	Wednesday 4 th	Gear hobbing	Completed
	•	Unit V	
3	Friday 6 th	Numerical control	Completed
4	Friday 7 th	Machine tools CNC Types	Compare
WEEK:11			1 1
1 .	Tuesday 4 th	Constructional details, special features	Compuler
2	Wednesday 4 th	Design considerations of CNC	Complete
3	Friday 6 th	machining accuracy	Compared
4	Friday 7 th	Structural members	Completed Completed Completed
WEEK:12			
1	Tuesday 4 th	Slide ways linear bearing	Compaged
2	Wednesday 4 th	Spindle drives and feed drives	(complete
3	Friday 6 th	Part programming fundamentals, manual programming	Completes Completes
4	Friday 7 th	Computer assisted part programming	Completa

Prepared By

(S.SHYLM H JOSE)

Approved by

(HOD/ Mechanical)

PROFESSOR & HEAD

Department of Mechanical Engineering
Adhiyamaan College of Engineering (Autonomous)

Dr. M.G.R. Nagar, HOSUR - 635 109



ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS)





LESSON PLAN

Faculty Name: C.P. SHANTHANIKETHAN Subject Code

: 415MET06

Subject : Machine Drawing

Total no of Hrs:60 Year/Semester :II /IV

Academic year: 2017-2018

SL NO	CLASS PERIOD/HOUR	TOPICS	REMARKS
WEE	EK:1		
1	Monday 5 th ,6 th & 7 th	IntroductionCode of practice for engineering drawing	completed
2	Wednesday 5 th ,6 th & 7 th	Conventional representation of details Drilled and tapped holes	completed
WEE	EK-2		
3	Monday 5 th ,6 th & 7 th	Countersunk and counter bored holes, internal and external threads	completed
4	Wednesday 5 th ,6 th & 7 th	Conventional representation of standard components, Keys-Parallel, Taper, feather and woodruff key	completed
WEE	EK-3		
5	Monday 5 th ,6 th & 7 th	Riveted joints	completed
6	Wednesday 5 th ,6 th & 7 th	Methods and concept of Assembly	Completed
WEI	EK-4		
7	Monday 5 th ,6 th & 7 th	Bill of Materials	completed
8	Wednesday 5 th ,6 th & 7 th	Methods of assembly and methods of arresting motion of a member in an assembly	completed
WEI	EK-5		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
9	Monday 5 th ,6 th & 7 th	Limits and fits	completed
10	Wednesday 5 th ,6 th & 7 th	Tolerances -types	completed
WEI	EK-6		
11	Monday 5 th ,6 th & 7 th	Allowances	Comp late
12	Wednesday 5 th ,6 th & 7 th	Geometric tolerance	completed
WE	EK-7		
13	Monday 5 th ,6 th & 7 th	Surface finish symbols	completed
14	Wednesday 5 th ,6 th & 7 th	Blue print drawing	completed
WE	EK-8		
15	Monday 5 th ,6 th & 7 th	Assembly drawing	completed
16	Wednesday 5 th ,6 th & 7 th	Assembly drawing with sectioning	Completed
	EK-9		T.1.1
17	Monday 5 th ,6 th & 7 th	Bill of materials for part drawing	completed
18	Wednesday 5 th ,6 th & 7 th	Bill of Materials for assembly drawing	complete
	EK-10	11 1 ' Colores inint	completed
19	Monday 5 th ,6 th & 7 th	Assembly drawing of Sleeve joint	
20	Wednesday 5 th ,6 th & 7 th	Assembly drawing of cotter joint	completa
WE	EK-11		
21	Monday 5 th ,6 th & 7 th	Assembly drawing of Knuckle joint	completed
22	Wednesday 5 th ,6 th & 7 th	Assembly drawing of Universal coupling	completed
WE	EK-12		
23	Monday 5th, 6th & 7th	Assembly drawing of Flange coupling	completed
24	Wednesday 5 th ,6 th & 7 th	Assembly drawing of Plummer block	completed
	EK-13		7-31
25	Monday 5 th ,6 th & 7 th	Assembly drawing of Swivel bearing	completed completed completed
26	Wednesday 5 th ,6 th & 7 th	Assembly drawing of Screw jack	completed

WE	EK-14		
27	Monday 5 th ,6 th & 7 th	Assembly drawing of Machine vice	completed
28	Wednesday 5th,6th& 7th	Assembly drawing of Lathe tailstock	completed
WE	EK-15	1	
29	Monday 5 th ,6 th & 7 th	Assembly drawing of Petrol engine piston	completed
30	Wednesday 5th, 6th & 7th	Assembly drawing of connecting rod	completed

Prepared By

(C.P.SHANTHANIKETHAN)

Approved by

(HOD/MECH)

PROFESSOR & HEAD

Department of Mechanical Engineering Adhiyamaan College of Engineering (Autonomous) Dr. M.G.R. Nagar, HOSUR - 635 109





Adhiyamaan College of Engineering (Autonomous)

Tr/Format No: ACE - QF -7104-05

Dr.M.G.R Nagar- Hosur-635109

Department of Chemical Engineering Lesson Plan

Faculty Name: Mrs.B.Umamaheswari

Subject Name: Chemical process plant safety

Academic year: 2017-2018

Year/ Semester: III/ VI

Subject code: 615CH04

Total no of hours: 45

Tutorial hours: 0 Lecture hours: 45

S.No	Topic	Hours Planned	Method of Delivery	Date & Period of topic covered	Initials / Remarks
	UNIT I- Safety In	Industrie	s		
1	Need for Development, Important Safety Consciousness in Indian Chemicalindustry	2	Board	13/11/17 6	b
2	Social environmental setup; tolerance limit of the society	2	Board	14/11/17 6	D
3	Psychological attitude towards safety Programme, Elements of safety programme; effective realization	2	Board	17/11/17 3 20/11/17 2 20/11/17 4	6
4	Economic and social benefits; effective communication training at various levels of production and operation	3	Board	20/11/17 6 2/11/17 6	do
	UNIT II- Toxicology and I	Industria	l Hygiene	17	
5-	Entry, elimination, and effects of toxicants on organisms	2	Board	27/11/17 4 27/11/17 6	1
6	toxicological studies	2	Board	28/11/17 6	b
7	Dose versus response, relative toxicity, and threshold limit values	2	Board	4/12/17 3	4
8	Laws and regulations, OSHA, EPA, DHS, Material Safety Data Sheets. Identification, evaluation, and control of industrial hygiene.	3	Board	4 12 17 6 5 12 17 6 7 12 17 1 12 12 17 6	b
	UNIT III- Fires and Explosions, Prev	ention of	Fires and	Explosions	/
9	The fire triangle, distinction between fires and explosions, definitions, flammability characteristics of liquids and vapors.	1	Board	14/12/17 2	8

0	Limiting oxygen concentration and inerting, flammability diagram	3	В		18 12 18 4 16 12 17 5 19 12 17 6	W
1	ignition energy, auto-ignition, auto-oxidation, adiabatic compression, ignition sources, sprays and mists, explosions	3	В	Board	21112/18 2 2/11/18 6 4/11/18 2	8
12	Inerting, static electricity, explosion-proof equipment and instruments, ventilation, and	2		Board	8/11/8 3 9/11/18 6	A
	UNIT IV- Chemical Reactivity, Relie	fs and	Haz	ards Ide	11/1/18 2	/
13	Identification, characterization, and control of reactive chemical hazards.	2	1	Board	18/11/8 2	d/
14	Concepts, definitions, location of relief systems	2		Board	22/1/18 b 23/1/18 b 25/11/18 2	0
15	types, and characteristics of relief systems	2		Board	29/1/18 2 29/11/18 4	0
16	Process hazards checklists, hazards surveys hazards and operability studies (HAZOP)	3, 3		Board	30/1/18 6	8
	hazards and operability studies (HAZOT safety reviews. UNIT V- Risk Assessment, Safety reviews.	ety Pr	ocedu	res and	Designs 1184	
17	Review of probability theory, even the	3,	2	Board	12/2/18 6 13/2/18 6 15/2/18 2	D
18	layers of protection analysis (LOFA).		2	Board	19/2/18 4	1
19	permit procedures, safety reviews and		2	Board	20/2/18 6	b
20	nermit procedures, safety reviews and		3	Board	27/2/18 5	AS .
	Design process safety, fore explosion, nenway xxx, hardi	e ing			1/3/16 2 8/3/16 2 12/3/16 2	•

Signature of the faculty

Head of the Department

Adhiyamaan College of Engineering, Hosur Department of Mathematics Lesson Plan

Faculty Name: S.Manjubarkavi
Subject: Probability And Random Processes
Academic Year: 2017-2018

Sem & Branch : IV Sem & ECE - C Total no of Hrs. : 60 Tutorial Hrs. : :15

SL.NC	TUPICS	I DES-
WEEK:1	UNIT - I – PROBABILITY AND RANDOM VARIABLE	REMARKS
1.	Axioms of probability	
2.	"	Completo
3.	Conditional probability & Total probability	Complete
4.	" " " " " " " " " " " " " " " " " " "	1 complete
5.	Tutorial Hour	Complete
WEEK:2	Tutoriai riodi	Complet
6.	Baye's theorem	
7.	Buye stricorem "	1 Complet
8.		Cogonalela
9.	Random variables: Probability mass function	4 Complet
10.	Probability density function and properties Tutorial Hour	Coompleto
WEEK:3	Tatoriai Houi	Coonnes
11.	Moments	10
12.	Williams	Complet
13.		4 combleta
14.	Moment Generating Function and properties	Complete
15.	Tutorial Hour	Compiele
WEEK:4		complete
16.	UNIT - II – STANDARD DISTRIBUTIONS Binomial distribution	-
17.	Billothiai distribution	Camplel
18.	Poisson distribution	Complete
19.		4 Complete
20.	"	Compla
WEEK:5	Tutorial Hour	Combial
21.	TL-1C 11 - 15	- Confidence
22.	Uniform distributions	Complete
23.	u u	Complete
24.	Exponential distributions -	Comple
25.	"	Com de la
WEEK:6	Tutorial Hour	Donne
	4	Correce
26. 27.	Normal distributions and their properties	Comotalini
	"	A TALL
28.	Functions of random variable	Complete
29.	" " · · · · · · · · · · · · · · · · · ·	Complete
30.	Tutorial Hour	Complete State of the state of
VEEK:7	UNIT - III TWO DIMENSIONAL	so Milace
21	RANDOM VARIABLES	
31.	Joint distributions-Marginal distributions	Complan
32.	"	Congress
33.	Conditional distributions	(anylot
34.	"	Complete
35.	Tutorial Hour	completo
EEK:8	76	compression
36.	Covariance	0 - M D.
37.	"	Charles of the
38.	Correlation	congrete
39.	"	orapleto
		2 1 010

40.	Tutorial Hour	10 1.01
WEEK:9	1 diollar Hour	Completal
41.	Paymanian	50 10-0
42.	Regression	Completed
		Completed 10
43.	Central limit theorem (Statement and applications	s la valetad store
	only for independent and identically distributed	Completas
	random variable)	1 1 - 0
44.	ζζ	Cosobalas
45.	Tutorial Hour	Completed
WEEK:10	UNIT- IV - RANDOM PROCESSES	1 2 0
46.	Classifications	Completed 10.
47.	46	C. alatag Full
48.	Stationary process	Control of a
49.		Completed
50.	Tutorial hour	1) Completed
WEEK:11	,	Complexed
51.	Poisson process	1) smaller
52.	1 dissoil process	Coomstoned To
53. ·	Markov process	1 Completed
54.	Iviairov process	Complace
55.		Complated
	Tutorial hour	Completed
WEEK:12		1050
56.	Discrete parameter Markov chain	4 Completed fair
57.		Confred
58.	Chapman kolmogorov equations	Complaced
59.	• • •	I Completed
60.	Tutorial hour	monotologo
WEEK:13	UNIT V CORRELATION AND SPECTRAL	Complexity
	DENSITIES	1
61.	Auto correlation	1 Complaint
62.	Cross correlation	4 marpletog 8th
63.	Properties	Completed
64.	4,5	Completed
65.	Tutorial hour	Completed
WEEK:14		Cossephere
66.	Power spectral density	Completed
67.	Cross spectral density -	Contablet of gun.
68.	Properties	Domitedoral
69.	67	Contatotal
70.	Tutorial hour	Domoi ol Del
WEEK:15		Configuration
71.	Wiener-Khintchine relation	1) Commala Chal
72.	47	Completion 10
73.	Relationship between cross power spectrum and	Completion Jan
	cross correlation function	Complete
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STAFF

(HOD/MATHS)

Adhiyamaan College of Engineering, Hosur Department of Mathematics Lesson Plan (2017-2018 Odd Sem)

Faculty Name

: M. Salervanen

Total no. of Hrs: 60

Subject

: Engineering Mathematics - III

Tutorials : 15

Academic year Semester

: 2017-2018

Class : I - ECE-B

S.No.	Topics	Remarks
Week:1	UNIT-I FOURIER SERIES	Remarks
1	Euler's formula	200-000
2	Dirichlet's conditions convergence statement only	Complete
3	General Fourier series	
4	()	Completed Complete
5	Tutorial Hour	Compus
Veek :2		bompleteg
1	Odd and even functions	Mondon
2	Half range sine series	Compleko
3	Half range cosine series	Completed
4	than range cosme series	Complete
5	Tutorial Hour	Complete
	1 dtorrai 110th	Complictory
Veek:3	Daggayal'a Idantitu	10- 1
1	Parseval's Identity	Complete
2	Complex form of Fourier Series	Completed
3	Harmonic Analysis	Complete
4	m · ttx	Completa
5	Tutorial Hour	Jeomplete
Veek :4	UNIT-II BOUNDARY VALUE PROBLEMS	- 1
1	Classification of second order linear partial differential eqns.	Comploted
2	Solutions of one dimensional wave equation	Completed
3	>>	4 Completion
4	29	Completes
5	Tutorial Hour	Completed
Veek :5		7-1-1-1
1	One dimensional heat equation	1 completed
2	"	Completed
3	"	4 Completed
4	ш	Compulted
5	Tutorial Hour	Completoa
/eek :6		1
1	Steady state solution of two-dimensional heat equation	Mompleted
2	(Insulated edges excluded)	
3	Fourier series solutions in Cartesian coordinates	Campleted
4	. "	months and
5	Tutorial Hour	Langereg
eek:7	UNIT- III LAPLACE TRANSFORM	
1	Laplace transform, Condition for existence	nompleted
	Transform of elementary function, Basic properties	tompered
2	Transform of derivatives and integrals	Lamplated
2	Transporm of activatives and interials	I (I h ou h I h / No M /
3		Completod
3 4	Transform of unit step function and impulse functions	nompleted
3 4 5		1 1 - 1 - 6 /
3 4 5 Veek:8	Transform of unit step function and impulse functions Tutorial hour	completed
3 4 5 Veek:8	Transform of unit step function and impulse functions Tutorial hour Transform of periodic functions	nompleted
3 4 5 Veek:8	Transform of unit step function and impulse functions Tutorial hour	completed

	70 4 11		
5	Tutorial hour	Composed	
Week:9	T. 92.1 d T2 d	100	
1	Initial and Final value theorem Solution of ODE of second order with Constant	Completed	
2			-(40
	co-efficient Laplace transformation techniques	Completed	TAN-
3	27	Composed	
4	" "	Complete	
5	Tutorial hour	Completed	
Week:10	UNIT -IV FOURIER TRANSFORM	000	
1	The infinite Fourier transform	Completed	14.
2	Sine and cosine transforms	Completed	
3	Properties "	1 1 N	
4		Completed	
5	Tutorial hour	Correspond	
Week:11			
1	Inversion theorem	1 composed	
2	69	(Coropo la Ka)	M
3	Finite Fourier Transforms	Completed	
4	()	Competed.	
5	Tutorial hour	Completed	
Week:12		100	
1	Sine and cosine transforms Properties) Completed	
2	Convolution theorem	Comment.	۸.
3	Parseval's Identity	Completiel	M
4	19	Completed	
5	Tutorial hour	Omber	
Week:13	UNIT - V Z TRANSFORM AND DIFFERENCE	(0, 1) = 1	
	EQUATIONS	0	
1	Z transform - Elementary properties	(Coronglote)	
2	66	(lemplete)	۸
3	Inverse Z transform	Completed	M
4	"	Translated	
5	Tutorial hour	Complete	
Week:14		,	
1	Inverse Z transform	J CO 10) Published	14.
2	"	Complete	MA
3	Convolution theorem	1 ampleted	
4	"	Complesed	
5	Tutorial hour	(amplose	
Week:15			
1	Formation of difference equation	22 moloh	
2	66	(andeted	Un
3	Solution of difference equation using Z transform	Comblete	_
4	"	Complete	
5	Tutorial hour	Complete	
	1 dioriai fiodi	- Joere	

STAFF



ADHIYAMAAN COLLEGE OF ENGINEERING (Autonomous) Dr.MGR Nagar, Hosur – 635130 Department of Biomedical Engineering

Lesson Plan (2017-18)

Faculty Name: Mr.P.Ganesh Babu Class: III BME

Subject : MP & MC Semester : V

S.No	Topic	Remarks
WEEI	K:1	Remarks
	UNIT I 8085 MICROPROCESSOR	
1	In roduction	1 monda la l
2	8085 Architecture	a lelet
3	8085 Architecture	Completed
4	Instruction set	Completed
WEE		Completed
1	Instruction set	1. 2.1.1
2	Addressing modes	Confector
3	Addressing modes	Completey
4	Timing diagrams	Completely
WEEK	.113	completed
l	Timing diagrams	(10 Ma) = 1
2	Assembly language programming	Completed
3	Assembly language programming	Completey
4	Interrupts	Completer
WEEK	: 4.	Completed
	UNIT II 8086 MICROPROCESSOR AND PERIPHERAL I	NTEDEACING
1	In el 8086 Internal Architecture	
2	In el 8086 Internal Architecture	Jumpleten
3	80 86 Addressing modes	Completed
4	8086 Addressing modes	(empleted
WEEK	: -	Completer
	Instruction set	
2	Instruction set	(emplele)
3	8086 Assembly language Programming	Completed
1	80.86 Assembly language Programming	(empleley
WEEK	: (Completer
	In errupts	
2	In errupt service routine	Completed
	Serial I/O (8251)	- Jonn Clas
	parallel I/O (8255)	Jumpleley
VEEK		Completed
	Keyboard and Display controller (8279)	
	UNIT III 8051 MICROCONTROLLER	Completer
f	8051 Internal Architecture	Carried 1151
	8051 Internal Architecture	completey
	Ports and circuits	Completed
VEEK		Completed
	External memory	10-1
	nstruction set	Completou
	nstruction set	Compoley
	Addressing modes	Completer
	maressing modes	Inmoleter (

1	Assembly language programming	V 2/2 -1
2	Assembly language programming	Completed
	I/O port programming	Completed
	Timer and counter programming	Completed
VE	EK: 10	Completed
	Serial Communication	10-10-1
	In errupt programming	Completed
	UNIT IV 8051 REAL WORLD INTERFACE	CINC Completer
	8051 Interfacing	CING
	Keyboard Interfacing	completed
VΕ	EK: 11	Completed
	LCD Interfacing	
	Stepper Motors Interfacing	pompleter
	In erfacing to external memory and 8255	Jompleley
	7-Segment display	Completed
Æ	EK: 12	Complete
	UNIT V PIC16F8XX MICROCONTROL	LDD
	In roduction to PIC16F8XX Flash microcontrollers	LEK
	In roduction to PIC16F8XX Flash microcontrollers	Completer
	Pi 1 diagram of 16F8XX	Compelei
	Architectural features	Completer
ÆΙ	EK: 13	Completed.
	I/O Ports	
	I/O Ports	Completer
	Timers	Completed
-	Timers	Complete
EE	EK : 14	Completer
	Addressing modes of 16F877	6 1 1 5
	Addressing modes of 16F877	Completed
	Instruction Set	Completed
	Instruction Set	Completer
EE	EK: 15	completed
	Revision	
	Revision	Completer
	Question Paper Discussion	Completey
	Question Paper Discussion	Completey
	- C. SOMOTI APOI DISCUSSIOII	Completer

Prepared By: (Faculty)	Approved By: (HoD)	Revision No.	Date:
P.GANESH BABU	Bus		05 06 203



ADHIYAMAAN COLLEGE OF ENGINEERING

(AUTONOMOUS) Dr.M.G.R.Nagar – Hosur 635109

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING LESSON PLAN

Faculty Name: P.S.LOGANATHAN

Subject: **ELECTRICAL MACHINE DESIGN**

Subject Code: 615EET01

Semester: VI/EEE-A Sec

Sl.No	Class Period / Hour	Topic	Remarks
WEEK: 1		UNIT-I INTRODUCTION	
Monday	5	Major considerations in Electrical Machine Design	Completed
Monday	.· 7	Electrical Engineering Materials	wmpueza
Tuesday	1	Choice of Specific electric loading	
Tuesday	4	Choice of Specific magnetic loading	
Wednesday	2	Concept of magnetic circuits	
WEEK: 2		The state of the s	
Monday	5	Reluctance and MMF for air gap	1
Monday	7	Reluctance and MMF for Teeth	
Tuesday	1	Real flux density of rotating machines	& Computation
Tuesday	4	Apparent flux density of rotating machines	
Wednesday	2	Thermal considerations: Heat flow – Temperature rise	
WEEK: 3		Thermal considerations. That now Temperature rise	
Monday	5	Rating of machines	
Monday	7	Standard specifications	7
Tuesday	1	Problem solving	
Tuesday	4	Problem solving	Completized
Wednesday	2	Problem solving	
WEEK: 4	#	UNIT-II D.C. MACHINES	
Monday	5	Problem solving	N
Monday	7	D.C. MACHINES	
Tuesday	1	Output equation of D.C. Machines	—
Tuesday	4	Main dimensions of dc machines	Completed
Wednesday	2	Choice of specific loadings	
WEEK: 5		Choice of specific loadings	
Monday	5	Chains of mumber of male	
Monday.	$\frac{1}{7}$	Choice of number of poles	
Tuesday	1	Armature design	
	· · · · · · · · · · · · · · · · · · ·	Design of field poles	Compiltaci
Tuesday	4	Design of field coil	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Wednesday	2"	Design of commutator	
WEEK: 6	7		J
Monday	5	Design of brushes	
Monday	7	performance prediction using design values	
Tuesday	1	Problems for Main dimensions of dc machines	Completed
Tuesday	4	Problems for Armature design and Design of air gap	
Wednesday	2	Problems for Design of field poles and coil	
WEEK: 7		UNIT-III TRNASFORMERS	7
Monday	5	Problems for design of commutator	Control Land Control
Monday	7	TRNASFORMERS: Construction – Main Dimensions	& Completed
Гuesday	1	KVA output equation for single and three phase transformers	
Гuesday	4 :	Overall dimensions, Optimum design of transformers	
Wednesday	2	Design of core	Ψ

WEEK: 8			
Monday	-5	Design of yoke	
Monday	7	Design of winding for core type transformer	Comp Utres
Tuesday	1	Design of winding for shell type transformers	
Tuesday	4	Design of small single phase transformer	
Wednesday	2	Temperature rise in Transformers	1
WEEK: 9			
Monday	5	Design of tank and cooling tubes of transformers	
Monday	7.	Problems for Design of core	
Tuesday	. 1	Problems for Design of yoke	on complexed
Tuesday	4	Problems for design of core and shell type transformers	
Wednesday	2	Problems for design of tanks and cooling tubes of transformers	
WEEK: 10		UNIT-IV THREE PHASE INDUCTION MOTORS	
Monday	5	Introduction	
Monday	7	Construction - Output equation of Induction motor	
Tuesday	1	Main dimensions of induction motor	1 Computed
Tuesday	4	choice of specific loadings	
Wednesday	2	Design of Length of air gap	
WEEK: 11			
Monday	5	design of stator	
Monday	7	Derivation of squirrel cage rotor	
Tuesday	1	Design of slip ring induction rotor	& Completed
Tuesday	4	Estimation of operating characteristics	
Wednesday	2	Performance calculation from design data	
WEEK: 12			
Monday	5	Problem for Output Equations of three phase transformers)
Monday	7.	Problems for Main dimensions of three phase transformers	Completed
Tuesday	1	Problems for Design of stator	
Tuesday	4	Problems for design of squirrel cage induction motor	
Wednesday	2	Problems for design of slip ring induction motor	
WEEK: 13		UNIT -V SYNCHRONOUS MACHINES	
Monday	5	Introduction	7
Monday	7	Output equation of synchronous machines	
Tuesday	- i	Main dimensions of synchronous machines	Completed
Tuesday	4	choice of specific loadings	-
Wednesday	2	Design of salient pole machines – Short circuit ratio	1
WEEK: 14	Loss	Design of surferit pole indeximes short encursars	
Monday	.5	shape of pole face – Armature design – Armature parameters	1
Monday	7	Estimation of air gap length	Comured
	1	Design of rotor	- Compared
Tuesday	4	Design of damper windings, Determination of full load field mmf	
Tuesday	2	Design of field coil	7
Wednesday		Design of Hein con	
WEEK: 15		Design of timber alternature	7
Monday	5	Design of turbo alternators	
Monday	7	Problems for Output equation of synchronous machines	1 Constand
Tuesday	1	Problems for Design of stator & rotor of cylindrical pole machines	Complexed
Tuesday	4	Problems for Design of stator & rotor of salient pole machines	
Wednesday	2	Problems for Design of damper winding& field coil of machines	

Prepared by	Approved by	Revision No.		Da	te:
P.S.LOGANATHAN AP/EEE	HOD/EEE		10	11	2017

Signature of the staff



ADHIYAMAAN COLLEGE OF ENGINEERING

(AUTONOMOUS) Dr.M.G.R.Nagar – Hosur 635109

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING LESSON PLAN

Faculty name

: M.SUKANYA

Semester: VI

Deparment: BE EEE-A Section

Subject

: HIGH VOLTAGE ENGINEERING

Subject Code: 615EET04

SI.No	Day	Class Period/ Hour	Topic	Remarks
Week: 1			UNIT – I INTRODUCTION- TRANSIENT OVERVOLTAGES IN ELECTRIC POWER SYSTEMS	
1	Tuesday	2	Electric Power Systems	
2	Tuesday	5	Natural Causes of Over voltages	complete
3	Wednesday	3	Lightning Phenomena	Comp
4	Friday	1	Charge formation in the Clouds	
Week: 2			0	
1	Tuesday	2	Over voltages due to Switching Surges	1 1
2	Tuesday	5	Origin of Switching Surges	beter
3	Wednesday	3	Power Frequency overvoltage in power systems	COMP
4	Friday	1	Control of Overvoltages due to switching	
Week: 3			2	
1	Tuesday	2	System Faults	1.1
2	Tuesday	5	Abnormal Conditions	1 héte
3	Wednesday	3	Transmission Waves on Transmission Lines	comp
4	Friday	1	Transmission Waves on Transmission Lines	<u> </u>
Week : 4			UNIT – II ELECTRICAL BREAKDOWN IN GASES, SOLII AND LIQUIDS	os
1	Tuesday	2	Classical Gas Laws	1 1
2	Tuesday	5	Ionization Processes	complete
3	Wednesday	3	Townsend's Criterion	10017
4	Friday	1	Paschen's Law	
Week : 5				
1	Tuesday	2	Streamer theory	1 1
2	Tuesday	5	Breakdown in non-uniform fields and Corona Discharges	Dete
3	Wednesday	3	Practical considerations in using gases for insulation purposes	complete
4	Friday	1	Vacuum insulation	
Week : 6			0	
1	Tuesday	2	Conduction & Breakdown in pure and commercial liquids	11
2	Tuesday	5	Intrinsic breakdown in solids	HELE
3	Wednesday	3	Electromechanical breakdown & thermal breakdown	compete
4	Friday	1	Breakdown in composite dielectrics	
Week : 7			UNIT – III GENERATION OF HIGH VOLTAGES AND HIGH CURRENTS	
1	Tuesday	2	Introduction	14
2	Tuesday	5	Generation of High D.C Voltage	complete
3	Wednesday	3	That wave to the recent of the chief	
4	Friday	1	Voltage Doubler Circuits	

Week: 8			
	Tuesday	2	Cascaded Voltage Doubler Circuit & Cockcroft-Walton Voltage
1			Multiplier Circuit
2	Tuesday	5	Multiplier Circuit Generation of High Alternating voltages Cascade Transformer connection
3	Wednesday	3	
4	Friday	1	Resonant Transformers
Week: 9			9
1	Tuesday	2	Impulse Voltage Generation
2	Tuesday	5	Impulse Generators & Standard switching Impulse voltage
3	Wednesday	3	Impulse Current Generation
4	Friday	1	Tripping and control of Impulse Generators
Week: 10			UNIT – IV MEASUREMENT OF HIGH VOLTAGE AND HIGH CURRENTS
1	Tuesday	2	Measurement of High DC Voltages
2	Tuesday	5	Measurement of High AC Voltages Consolitance Voltage Transformer
3	Wednesday	3	Capacitance Voltage Transformer
4	Friday	1	Measurement of High Impulse Voltages
Week: 11			
1	Tuesday	2	Potential Dividers
2	Tuesday	5	Potential Dividers Peak Reading Voltmeters for Impulse Voltages Measurement of High DC Currents
3	Wednesday	3	Measurement of High DC Currents
4	Friday	1	Measurement of High AC Currents
Week: 12			
1	Tuesday	2	Measurement of High Impulse Currents
			CRO for Impulse voltage and Current Measurement
2	Tuesday	5	
3	Wednesday	3	Digital Techniques in High voltage Measurement
4	Friday	1	Digital Techniques in High voltage Measurement
Week: 13			UNIT - V HIGH VOLTAGE TESTING OF ELECTRICAL POWER APPARATUS
1	Tuesday	2	Introduction-Need for Testing of Over voltages
2	Tuesday	5	Testing of Insulators
3	Wednesday	3	Introduction-Need for Testing of Over voltages Testing of Insulators Testing of Bushings
4	Friday	1	Testing of Isolators
Week: 14			
1	Tuesday	2	Testing of Circuit Breakers
2	Tuesday	5	Testing of Cables Convertible
3	Wednesday	3	Testing of Transformers & Surge Arresters
4	Friday	1	Tan Delta Measurement
Week: 15			
1	Tuesday	2	Partial Delta Measurement Radio Interference Measurement
2	Tuesday	.5	Radio interference intensariement
3	Wednesday	3	International and \Indian Standard Specifications
4	Friday	1	Revision
Pro	epared by:		Approved by: HOD Revision No. Date:
M.SUKA	ANYA AP/EE	Е	13.11.17

Signature of the staff

ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS)

Dr. M.G.R Nagar, Hosur-635109

DEPARTMENT OF BIOMEDICAL ENGINEERING

Lesson Plan

EVEN SEMESTER (2017-18)

Faculty Name: KUMAR KANDUKURI

Subject: 811BMT01- HOSPITAL ENGINEERING AND MANAGEMENT

Class: BME Semester: VIII

S.	Class/	Topic	Remarks
No	' Period/		
	Hour		
WEI	EK:1		
1	Mon(11.25-12.20)	Hospital various Departmental Planning &.	Campleted
		Design	Completed
2	Mon(02.15-3.10)	Hospital various Departmental Planning &.	Completed
		Design	Cernfrae
3	Tue(9.25-10.20)	BME Services in Hospitals	Completed Completed Completed
4	Tue(1.20-2.15)	Role &	100
		Responsibilities	Completed
5	Wed(9.25-10.20)	Biomedical Equipment Procurement	Campletade
		Procedure	Correct
WE	EK:2	4	
1	Mon(11.25-12.20)	Purchase & Contract	C 0-0-0
		Procedures	competed
2	Mon(02.15-3.10)	Purchase & Contract	Complete P
		Procedures	Correpered
3	Tue(9.25-10.20)	Selection Testing, Calibration and	
		Installation	Completed
4	Tue(1.20-2.15)	Selection Testing, Calibration and	
		Installation	Completed Completed Completed Completed Completed
5	Wed(9.25-10.20)	Training to Medical Staffs	Completed
WE	EK:3		
1	Mon(11.25-12.20)	Operating Instructions.	completed
2	Mon(02.15-3.10)	Revision of Unit - I	condeted
3	Tue(9.25-10.20)	Management of Medical Equipments	Completed Completed
4	Tue(1.20-2.15)	Management of Medical Equipments	Completed
5	Wed(9.25-10.20)	Planned Preventive Maintenance System	Completed
WE	EK:4		· ·
1	Mon(11.25-12.20)	Planned Preventive Maintenance System	Completed
2	Mon(02.15-3.10)	Preventive Maintenance & Repair	Completed
3	Tue(9.25-10.20)	Preventive Maintenance & Repair	Completed
4	Tue(1.20-2.15)	Requirements of Inter Departmental	
		Computerization	Completed
5	Wed(9.25-10.20)	Requirements of Inter Departmental	Completed Completed Completed
		Computerization	completed
WE	EK:5		
1	Mon(11.25-12.20)	DBMS in Hospital	completed
2	Mon(02.15-3.10)	DBMS in Hospital	Completed
3	Tue(9.25-10.20)	Computerized Medical Record Evaluation	completed
4	Tue(1.20-2.15)	Computerized Medical Record Evaluation	Completed

5	Wed(9.25-10.20)	Database Approach to Labarotary	Completed
		Computerization	con puted
	EK: 6	D. 1 A Labouatowy	
1	Mon(11.25-12.20)	Database Approach to Labarotary Computerization	Completed
2	Mon(02.15-3.10)	Case study on a Hospital DBMS	completed
3	Tue(9.25-10.20)	Case study on a Hospital DBMS	Completed
4	Tue(1.20-2.15)	Revision of Unit - II	Completies
5	Wed(9.25-10.20)	Hospital Electrical Supply & Power System	Completed
	EK: 7		
1	Mon(11.25-12.20)	Hospital Electrical Supply & Power System	Completed
2	Mon(02.15-3.10)	Hospital Electrical Systems	Completed
3	Tue(9.25-10.20)	General Power & Lighting Systems	Completed
4	Tue(1.20-2.15)	General Power & Lighting Systems	Completed
5	Wed(9.25-10.20)	Hospital Wiring Systems	Condited
	EK: 8	2200	, i
1	Mon(11.25-12.20)	Hospital Wiring Systems	Completed
2	Mon(02.15-3.10)	Electrical Safety	Completed
3	Tue(9.25-10.20)	Isolated Power Supply	Completed
4	Tue(1.20-2.15)	Line Isolation Monitor	Completed
5	Wed(9.25-10.20)	Performance Testing of Isolated Power	
3	Wed(9.23-10.20)	Supply	Completed
WE	EEK: 9	Сирріу	
	Mon(11.25-12.20)	Performance Testing of Isolated Power	1 0
1	Wion(11.25-12.20)	Supply	Completed
2	Mon(02.15-3.10)	IPS in Patient Care Areas	Completed
3	Tue(9.25-10.20)	Generator Sets	Completed
4	Tue(1.20-2.15)	UPS & Voltage Stabilizers	Completed
5	Wed(9.25-10.20)	Causes of Failure of Electrical Supply, Ways to Minimize them	Completed
WE	EEK: 10		
1	Mon(11.25-12.20)	Causes of Failure of Electrical Supply,	Canaleta D
		Ways to Minimize them.	corry enear
2	Mon(02.15-3.10)	Revision of Unit - III	Completed
3	Tue(9.25-10.20)	Basics of Air conditioning and	0 0 0
_	Tue(9.25-10.20)	Basics of Air conditioning and Refrigeration	Completed Completed Completed
	Tue(9.25-10.20) Tue(1.20-2.15)	The second secon	Completed
3	,	Refrigeration Basics of Air conditioning and Refrigeration	Completed
3	,	Refrigeration Basics of Air conditioning and	Completed Completed
3 4 5	Tue(1.20-2.15)	Refrigeration Basics of Air conditioning and Refrigeration	Completed Completed
3 4 5	Tue(1.20-2.15) Wed(9.25-10.20)	Refrigeration Basics of Air conditioning and Refrigeration	Completed Completed Completed
3 4 5 WI	Tue(1.20-2.15) Wed(9.25-10.20) EEK: 11	Refrigeration Basics of Air conditioning and Refrigeration Air changes Filtering & Sterility	Completed Completed Completed Completed
3 4 5 WI 1 2	Tue(1.20-2.15) Wed(9.25-10.20) EEK: 11 Mon(11.25-12.20) Mon(02.15-3.10)	Refrigeration Basics of Air conditioning and Refrigeration Air changes Filtering & Sterility Air changes Filtering & Sterility Hospital Gas Supply Systems	Completed Completed Completed Completed Completed Completed
3 4 5 WI 1 2 3	Tue(1.20-2.15) Wed(9.25-10.20) EEK: 11 Mon(11.25-12.20) Mon(02.15-3.10) Tue(9.25-10.20)	Refrigeration Basics of Air conditioning and Refrigeration Air changes Filtering & Sterility Air changes Filtering & Sterility Hospital Gas Supply Systems Hospital Gas Supply Systems	Completed Completed Completed Completed Completed
3 4 5 WI 1 2	Tue(1.20-2.15) Wed(9.25-10.20) EEK: 11 Mon(11.25-12.20) Mon(02.15-3.10)	Refrigeration Basics of Air conditioning and Refrigeration Air changes Filtering & Sterility Air changes Filtering & Sterility Hospital Gas Supply Systems	Completed Completed Completed Completed Completed Complete
3 4 5 WI 1 2 3 4	Tue(1.20-2.15) Wed(9.25-10.20) EEK: 11 Mon(11.25-12.20) Mon(02.15-3.10) Tue(9.25-10.20) Tue(1.20-2.15)	Refrigeration Basics of Air conditioning and Refrigeration Air changes Filtering & Sterility Air changes Filtering & Sterility Hospital Gas Supply Systems Hospital Gas Supply Systems Centralized Supply of Air, Oxygen, Nitrous Oxide & Vacuum	Completed Completed Completed Complete Complete
3 4 5 WI 1 2 3	Tue(1.20-2.15) Wed(9.25-10.20) EEK: 11 Mon(11.25-12.20) Mon(02.15-3.10) Tue(9.25-10.20)	Refrigeration Basics of Air conditioning and Refrigeration Air changes Filtering & Sterility Air changes Filtering & Sterility Hospital Gas Supply Systems Hospital Gas Supply Systems Centralized Supply of Air, Oxygen, Nitrous Oxide & Vacuum Centralized Supply of Air, Oxygen, Nitrous	Completed Completed Completed Complete Complete Complete
3 4 5 WI 1 2 3 4	Tue(1.20-2.15) Wed(9.25-10.20) EEK: 11 Mon(11.25-12.20) Mon(02.15-3.10) Tue(9.25-10.20) Tue(1.20-2.15) Wed(9.25-10.20)	Refrigeration Basics of Air conditioning and Refrigeration Air changes Filtering & Sterility Air changes Filtering & Sterility Hospital Gas Supply Systems Hospital Gas Supply Systems Centralized Supply of Air, Oxygen, Nitrous Oxide & Vacuum	Completed Completed Completed Complete Complete
3 4 5 WI 1 2 3 4	Tue(1.20-2.15) Wed(9.25-10.20) EEK: 11 Mon(11.25-12.20) Mon(02.15-3.10) Tue(9.25-10.20) Tue(1.20-2.15)	Refrigeration Basics of Air conditioning and Refrigeration Air changes Filtering & Sterility Air changes Filtering & Sterility Hospital Gas Supply Systems Hospital Gas Supply Systems Centralized Supply of Air, Oxygen, Nitrous Oxide & Vacuum Centralized Supply of Air, Oxygen, Nitrous	Completed Completed Completed Complete Complete

ADHIYAMAAN COLLEGE OF ENGINEERING (AUTONOMOUS) Dr. M.G.R Nagar, Hosur-635109

DEPARTMENT OF BIOMEDICAL ENGINEERING

Lesson Plan

EVEN SEMESTER (2017-18)

Faculty Name: KUMAR KANDUKURI

Subject: 811BMT01- HOSPITAL ENGINEERING AND MANAGEMENT

Class: BME

Semester: VIII

S.	Class/	Topic	Remarks
No	· Period/		
	Hour		
	EK:1		
1	Mon(11.25-12.20)	Hospital various Departmental Planning &.	Completed
		Design	Completed
2	Mon(02.15-3.10)	Hospital various Departmental Planning &.	Completed
		Design	Completed Completed Completed
3	Tue(9.25-10.20)	BME Services in Hospitals	Completed
4	Tue(1.20-2.15)	Role &	
		Responsibilities	Completed
5	Wed(9.25-10.20)	Biomedical Equipment Procurement	Campleted
		Procedure	Correct
WE	EK:2		
1	Mon(11.25-12.20)	Purchase & Contract	Complete O.
		Procedures	Competed
2	Mon(02.15-3.10)	Purchase & Contract	Campletel
		Procedures	Correct
3	Tue(9.25-10.20)	Selection Testing, Calibration and	
		Installation	Completed
4	Tue(1.20-2.15)	Selection Testing, Calibration and	
		Installation	Completed
5	Wed(9.25-10.20)	Training to Medical Staffs	Completed Completed Completed Completed
WE	EK:3		
1	Mon(11.25-12.20)	Operating Instructions.	completed
2	Mon(02.15-3.10)	Revision of Unit - I	completed
3	Tue(9.25-10.20)	Management of Medical Equipments	completed completed completed
4	Tue(1.20-2.15)	Management of Medical Equipments	Completed
5	Wed(9.25-10.20)	Planned Preventive Maintenance System	Completed
WE	EK:4	·	-0.79
1	Mon(11.25-12.20)	Planned Preventive Maintenance System	Completed
2	Mon(02.15-3.10)	Preventive Maintenance & Repair	Completed
3	Tue(9.25-10.20)	Preventive Maintenance & Repair	Completed
4	Tue(1.20-2.15)	Requirements of Inter Departmental	- Congester
·	200(2120 2120)	Computerization	Completed
5	Wed(9.25-10.20)	Requirements of Inter Departmental	Completed Completed
	1104(5126 10126)	Computerization	Completed
WE	EK:5		
1	Mon(11.25-12.20)	DBMS in Hospital	completed
2	Mon(02.15-3.10)	DBMS in Hospital	Completed
3	Tue(9.25-10.20)	Computerized Medical Record Evaluation	completed
4	Tue(1.20-2.15)	Computerized Medical Record Evaluation Computerized Medical Record Evaluation	computed
4	1 uc(1.20-2.13)	Computerized intedical Record Evaluation	Completed

5	Wed(9.25-10.20)	Database Approach to Labarotary Computerization	Completed
WFI	EK:6	^ ·	
1	Mon(11.25-12.20)	Database Approach to Labarotary	C1.L. 0
1	1,1011(11.25 12.25)	Computerization	Completed
2	Mon(02.15-3.10)	Case study on a Hospital DBMS	completed
3	Tue(9.25-10.20)	Case study on a Hospital DBMS	Completed
4	Tue(1.20-2.15)	Revision of Unit - II	Completed
5	Wed(9.25-10.20)	Hospital Electrical Supply & Power System	completed
	EK: 7		in the second
1	Mon(11.25-12.20)	Hospital Electrical Supply & Power System	Completed
2	Mon(02.15-3.10)	Hospital Electrical Systems	Completed
3	Tue(9.25-10.20)	General Power & Lighting Systems	Completed
4	Tue(1.20-2.15)	General Power & Lighting Systems	Completed
5	Wed(9.25-10.20)	Hospital Wiring Systems	Condited
-		Hospital Willing Systems	The plant
	EEK: 8	Hospital Wiring Systems	Completes
1	Mon(11.25-12.20)	Electrical Safety	Completes
2	Mon(02.15-3.10)		Complete
3	Tue(9.25-10.20)	Isolated Power Supply Line Isolation Monitor	Compere
4	Tue(1.20-2.15)		complete
5	Wed(9.25-10.20)	Performance Testing of Isolated Power	Complete
		Supply	/
	EEK: 9	D C CI-leted Dayyou	T .
1	Mon(11.25-12.20)	Performance Testing of Isolated Power Supply	Complete Complete
2	Mon(02.15-3.10)	IPS in Patient Care Areas	Complete
3	Tue(9.25-10.20)	Generator Sets	Complete
4	Tue(1.20-2.15)	UPS & Voltage Stabilizers	complet
5	Wed(9.25-10.20)	Causes of Failure of Electrical Supply,	
		Ways to Minimize them	Complete
W	EEK: 10	······································	
1	Mon(11.25-12.20)	Causes of Failure of Electrical Supply,	Connect
		Ways to Minimize them.	will the
2	Mon(02.15-3.10)	Revision of Unit - III	Complete
3	Tue(9.25-10.20)	Basics of Air conditioning and	Complete Complete Complete
		Refrigeration	Comp lete
4	Tue(1.20-2.15)	Basics of Air conditioning and	2
		Refrigeration	Complete
5	Wed(9.25-10.20)	Air changes Filtering & Sterility	Complet
_	TEEK: 11		J .
1	Mon(11.25-12.20)	Air changes Filtering & Sterility	Complete
2	Mon(02.15-3.10)	Hospital Gas Supply Systems	Complet
3	Tue(9.25-10.20)	Hospital Gas Supply Systems	Complet
4	Tue(1.20-2.15)	Centralized Supply of Air, Oxygen, Nitrous	The state of the s
4	1 40(1.20-2.13)	Oxide & Vacuum	Comple
5	Wed(9.25-10.20)	Centralized Supply of Air, Oxygen, Nitrous	
3	w cu(3.23-10.20)	Oxide & Vacuum	Complet
77	/EEK: 12	Onido W Tuoduii	- J
1		Revision of Unit - IV	Co. 268
1 2	Mon(11.25-12.20) Mon(02.15-3.10)	Medical Codes And Standards	compet
1 1	1 0 0 0 0 0 1 1 1 1 3 4 1 1 1 1	I MEGICAL CODES A DO STAHOATOS	I man Al Da

5	Wed(9.25-10.20)	Database Approach to Labarotary	Completed
	Computerization		purea
WEF	EK:6		
	Mon(11.25-12.20)	Database Approach to Labarotary Computerization	Completed
		conquier	
2	Mon(02.15-3.10)	Case study on a Hospital DBMS	Completed
3	Tue(9.25-10.20)	Case study on a Hospital DBMS	Completed
4	Tue(1.20-2.15)	Revision of Unit - II	Completed
5	Wed(9.25-10.20)	Hospital Electrical Supply & Power System	Completex
	EK: 7		. 0
1	Mon(11.25-12.20)	Hospital Electrical Supply & Power System	Completed
2	Mon(02.15-3.10)	Hospital Electrical Systems	Completed
3	Tue(9.25-10.20)	General Power & Lighting Systems	Completed
4	Tue(1.20-2.15)	General Power & Lighting Systems	Completed
5	Wed(9.25-10.20)	Hospital Wiring Systems	Condited
	EK: 8		1
1	Mon(11.25-12.20)	Hospital Wiring Systems	Completed
2	Mon(02.15-3.10)	Electrical Safety	Completed
3	Tue(9.25-10.20)	Isolated Power Supply	Completed
4	Tue(1.20-2.15)	Line Isolation Monitor	Completed
5	Wed(9.25-10.20)	Performance Testing of Isolated Power	
ر	1100(5.25 10.20)	Supply	Completed
WE	EK: 9	I water	
1	Mon(11.25-12.20)	Performance Testing of Isolated Power	Ca -1 - 0 0
1	1/1011(11.23 12.20)	Supply	completed
2	Mon(02.15-3.10)	IPS in Patient Care Areas	Completed
3	Tue(9.25-10.20)	Generator Sets	Condeted
4	Tue(1.20-2.15)	UPS & Voltage Stabilizers	Completed
5	Wed(9.25-10.20)	Causes of Failure of Electrical Supply,	
J	1100(7.23 10.20)	Ways to Minimize them	Completed
WE	EEK: 10		
1	Mon(11.25-12.20)	Causes of Failure of Electrical Supply,	Constat D
1	1.1011(11.20 12.20)	Ways to Minimize them.	completed
2	Mon(02.15-3.10)	Revision of Unit - III	Completed
3	Tue(9.25-10.20)	Basics of Air conditioning and	
	140(5.20 10.20)	Refrigeration	Completed
4	Tue(1.20-2.15)	Basics of Air conditioning and	0
, T	140(1.20 2.10)	Refrigeration	Completed
5	Wed(9.25-10.20)	Air changes Filtering & Sterility	Completed
	EEK: 11		
1	Mon(11.25-12.20)	Air changes Filtering & Sterility	Completed
2	Mon(02.15-3.10)	Hospital Gas Supply Systems	Completes
3	Tue(9.25-10.20)	Hospital Gas Supply Systems	Complete.
4	Tue(1.20-2.15)	Centralized Supply of Air, Oxygen, Nitrous	The state of the s
4	1 uc(1.20-2.13)	Oxide & Vacuum	Complete
5	Wed(9.25-10.20)	Centralized Supply of Air, Oxygen, Nitrous	
)	wea(9.23-10.20)	Oxide & Vacuum	Completed
W		Oxide & Tacadin	- L
	EEK; 12	Revision of Unit - IV	Completes
1	Mon(11.25-12.20)	Medical Codes And Standards	Confesso
2	Mon(02.15-3.10)	Iviculcal Codes Alia Stalidalus	conflere

		Competed
Tue(1.20-2.15)	MDRA standards	Completed
Wed(9.25-10.20)	Labor Laws	Completed
EK: 13		V
Mon(11.25-12.20)	JCA standards	Competed
Mon(02.15-3.10)	Radiation safety laws	Completed
Tue(9.25-10.20)	National codes and international codes	Completed
Tue(1.20-2.15)	Medical ethics	Completeel
Wed(9.25-10.20)	Revision of Unit - V	Completed
EK: 14		J
Mon(11.25-12.20)	Beyond the syllabus	Completed
Mon(02.15-3.10)	Beyond the syllabus	Completed
Tue(9.25-10.20)	Question Paper Discussion	Completed
Tue(1.20-2.15)	Case Studies	Completed
Wed(9.25-10.20)	Case Studies	completed
EK: 15		/
Mon(11.25-12.20)	Revision of Unit - I	Consoleted
Mon(02.15-3.10)	Revision of Unit - II	Completed
Tue(9.25-10.20)	Revision of Unit - III	Completed
Tue(1.20-2.15)	Revision of Unit - IV	Consoleted
Wed(9.25-10.20)	Revision of Unit - V	consoleted
	Mon(11.25-12.20) Mon(02.15-3.10) Tue(9.25-10.20) Tue(1.20-2.15) Wed(9.25-10.20) EK: 14 Mon(11.25-12.20) Mon(02.15-3.10) Tue(9.25-10.20) Tue(1.20-2.15) Wed(9.25-10.20) EK: 15 Mon(11.25-12.20) Mon(02.15-3.10) Tue(9.25-10.20) Tue(1.20-2.15)	Tue(1.20-2.15) MDRA standards Wed(9.25-10.20) Labor Laws K: 13 Mon(11.25-12.20) JCA standards Mon(02.15-3.10) Radiation safety laws Tue(9.25-10.20) National codes and international codes Tue(1.20-2.15) Medical ethics Wed(9.25-10.20) Revision of Unit - V K: 14 Mon(11.25-12.20) Beyond the syllabus Mon(02.15-3.10) Beyond the syllabus Tue(9.25-10.20) Question Paper Discussion Tue(1.20-2.15) Case Studies Wed(9.25-10.20) Case Studies EK: 15 Mon(11.25-12.20) Revision of Unit - I Mon(02.15-3.10) Revision of Unit - II Tue(9.25-10.20) Revision of Unit - III Tue(1.20-2.15) Revision of Unit - IV

Prepared By:	Approved By:			
(Staff)	(HOD)			
Kumas Kandukin	Dr. Udhaya	Revision No.	Date:	
	Sons wreya.		05 06	2017

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ADHIYAMAAN ENGINEERING COLLEGE

(Autonomous) Dr.M.G.R.Nagar – Hosur 635109

Department of Chemical Engineering

LESSON PLAN

Subject Code

Faculty Name	, B. C	Subject Code : 315CHE0:
Subject	: Chemical Engineering Fluid Mechanics	Total no of Hrs 2 : 60
Academic year		Tutorial Hrs. 15
Year/Semester		Lecture Hrs. : 45

S.No	Topic to be covered	Hours Planned	Method of Delivery	Date& Period of topic covered	Initials/ Remarks
	UNI	Г-1			
1	Unit system	1	Board	18/11/13	QQ.
2	Laws of dimensional homogeneity –	1 148	Board	18/11/14	9
3 **	The principle of dimensional homogeneity	1	Board	22/11/14	9
4	The Pi – theorem	1 7	Board	2411113	9
5	Relationship between dimensional analysis and similitude	1	Board	25/11/17 &	9
6	Use of dimensional analysis for scale up studies	1	Board		9
7	Problems	1	Board	28/11/13	OF.
8	Hydrostatic pressure distributions-	1	Board!	20/111/17	COD
9	Laws of buoyancy	1	Board	29/11/19	00
10	Pressure measurements manometers	1	Board	1112119	og

11	Decanters – gravity and centrifugal	1 Board 6/12/17
12	Problems	1 Board. 1 02
13	Revision	1 Boards 5/12/17
	UNI	
1	Nature of fluids	1 PPT 7112117 5
2	Physical properties of fluids	1 Board 8/12/17
3	Compressible and incompressible fluids	1 Board 9/12/17
4	Types of fluids-Newtonian and Non Newtonian fluids	1 Board 1112/17
5	Types of flow – laminar and turbulent	1 Board 12/12/19
6	Problems	1 Board 16112117
7	Concept of boundary layer	1 Board 13 12114
8	Basic equation of fluid flow –	1 Board 1412-17
9	Equations of continuity and momentum	1 Briard 15/12/19
10	Energy equations	1 Board 19/12/17
11	Bernoulli's equations with and without friction	1 Board 2012/17 2
12	Problems	1 Board 20(12) 17
13	Revision	1 Board 21/14/17
	UNI	
l	Reynolds number regimes	1 PPT 22/12/19 0
2	Internal versus viscous flow	1 Board 23/12/14
3	Laminar flow in pipes and annular pipe	1 Board 21118
4	Newtonian liquids	1 Board 5 11118
5	Problems	Board 41418
6	Hagen Poiseuille equations	1 Board 61118
7	Laminar flow of non	Board tol'1118

8	Newtonian liquids		Board 2/11/18
9	Turbulent flow in pipes and channels	1	Board 17/11/18
10	Problems	1	Board 311118
11	Head losses in fittings and valves	1	Board 1811/18
12	Problems		Board 28/11/8
13	Revision		Board 24/11/8
	UNIT	-IV	25/11/18
1	Flow past immersed bodies	1 //	Board 7
2	Skin and form drag	1	PPT 1/2/18 7 9
3	Drag coefficients	1	Board 21/11/18
4	Fluid flow through packed bed	1	Board 212118
5	Kozney – Carman equations	l	Board 2/21/8
6	Mechanics of particle motion	1	Board 1212118
7	Terminal velocity	2 1	Board 1412118
8	Gravity and centrifugal settling	1	Board 13/21/18
9	Settling regimes- hindered settling	1	Board 1514/18
10	Fluidization – types of fluidization] = <u>j</u> t	Board 16/21/18
11	Conditions of fluidization	1	Board solli's
12	Minimum fluidization velocity – Ergun equation – Problems	1	Board 17/2/18 7
13	Revision	1 -	Board 17/2/18 7
	UNI	T-V	2012/18
1	Metering of fluids	2	150ard
2	Orifice meter – venture meter- Pitot tube – Rotameter	-1	Board 211118
3	Problems	1.	4
4	Weirs – notches – principle and application of Doppler effect and flow measurement	1	PPT 2312/18

5	Valves – Types of Valves	1	Board 28/2/18
6	Fluid moving machinery	i	Board 22/21/18
7	Problems		Board 27/21/18
8	Centrifugal pumps	1	Beard 13118
9	Pump characteristics	Í	Board 4131 18
10	Positive displacement pumps reciprocating and rotator pumps		Board 313118
11	Air lift and Diaphragm pumps	1	Board 8131 18
12	Fans – blowers – compressors	1	Board 15/3 [18
13	Steam jet ejectors	1	Board 16/3/18
14	Revision	I	Board 19121'18

Prepared By

(R.UMAPRIYA)

Approved by

(НОО/СНЕМ.)

DEPARTMENT OF CHEMICAL ENGNEERING ADHIYAMAAN COLLEGE OF ENGINEERING, HOSUR - 635109

Lesson Plan (2017-2018)

Faculty Name: E.YUVANASHREE Subject Name: Mass Transfer – II

Subject Code : 615CHT01 Year / Semester : III / VI- A

S No	Topic to be delivered	Hours Planned	Method of Delivery	Date & Period of topic Covered	Initials/ Remarks
	Absorpti	on			
1	Equilibrium and operating line concept in absorption calculations	1	Board	13/11/17-b	Completed
2	Selection of solvent for absorption	1	Board	15/11/1A -1	ampleted
3	Types of contactors, design of plate type absorbers	2	Board	21/11/19-3	ampleted
4	Tutorial class	1	Board	21/11/17-7	Completed
5	Design of packed type absorbers, concepts of HETP, NTU, HTU and overall volumetric mass transfer coefficients	2	Board	2/11/19-4	Completed
6	Tutorial class	1	Board	25/11/17-1	Completed
7	Tutorial class	1	Board	28/11/1A-7 9/11/1A-1	Completed
8	Operating characteristics of stage-wise and differential contactors	1	Board	· 11/11/14-A	Completed
9	Multicomponent absorption	1	Board	5/12/17-3	completed
10	Absorption with chemical reaction	1	Board	S/12/10-A	Completed
	Distillatio	n -I			9
11	Multicomponent absorption	1	Board	6/12/12-1	Completed 9
12	Absorption with chemical reaction	1	Board	6/12/10-4	Completed
13	Flash distillation	1	Board	8/12/12-1	completed &
14	Differential distillation for binary mixtures	1	Board	8/12/12-2	Completed &
15	Continuous rectification - binary systems, multistage tray towers	1	Board	12/12/12-3	ampleted
16	Method of Mc Cabe and Thiele, enriching section, stripping section, feed introduction	2	Board	12/12/12-7	Completed
17	Total reflux, minimum and optimum reflux ratios	1	Board	18/12/12-4	Completed
18	Mc Cabe and Thiele method – tray tower design Calculations -Tutorial	3	Board	19/12/17-5	Completed Completed

19	Types of condensers, tray efficiencies, Steam distillation	1	Board 20 12/10 - 1/4 Complete	20
	Distillation -	·II	71.18-3	
20	The Ponchon-Savarit method; the enriching and stripping sections	2	Board of 1/18 - A, I comple	and and
21	Composition - Enthalpy diagram	1	Board 03/1/8-1 Ample	day
22	Feed tray location, total reflux, minimum and optimum reflux ratios	1	Board 4118-),2 ample	ted g
23	Ponchon-Savarit method -Tutorial	2	Board 10/18-3/7 Complet	d gy
24	Continuous contact distillation	1	Board 18/1/18-3 ample	- A
25	Packed tower design calculations	1	Board 28118-3 mplet	V
26	Tutorial-Packed tower height calculations	1	Board 2418-1 Grande	id ay
27	Extractive and azeotropic distillation,	1	PPT 30118-3, Tample	ed ay
28	Comparison of azeotropic and extractive distillation, Low pressure distillation.	1	Board 31/1/18-1 complete	18
29	Introduction to multi component distillation	1	Board 3/2/18-1 Complete	a 39
	Liquid-Liquid E	xtraction		
30	Equilibrium in ternary systems; solvent selection	1	Board 12/2/18-3 Comple	ted g
31	Equilibrium stage wise contact calculations for batch and continuous extractors –Immiscible systems	2	Board 16/2/18-1 ample	Ad &
32	Equilibrium stage wise contact calculations for batch and continuous extractors –Partially miscible systems	2	Board 19/2/8=3 Cmp	etid g
33	Differential contact extraction equipment – packed extractor	2	Board 28/218-7 Cmop	stid ag
34	Spray and mechanically agitated extractors	1	PPT 26/218-3 Comp	letel g
35	Pulsed extractors, centrifugal extractors, Selection of extractors.	1	PPT 2+1218-3, amp	oted Ex
36	Tutorial class	1	Board 2 1 2 18 - 1 Groph	alia al
37	Tutorial class	1	Board 27/212-2 Compo	
38	Tutorial class	1		pletral &
	Solid-Liquid Extraction (Lea	ching) an	d Adsorption	1-1
39	• -	1	Board 57818-3 Comp	eted &
40	types	1	Board 12/2/18 = 3 Comp	eted &
41	Calculation of number of stages – Constant underflow	1	Board 13/2/18-3 Com	plated g
42	Calculation of number of stages – variable underflow	1	Board 14/3/18-12 Comp	letted &
43	Tutorial class	1	Board 14/3/8-2 Long	liked gg
44	Tutorial class	1	Board 16 315 - 1 (mg)	Q 1 6

45	Theories of adsorption of gases and liquids; industrial adsorbents	1	Board	17/3/18-1 lumpleting
46	Adsorption equipment for batch and continuous operations	2	Board	1918-3 Completed &
47	Principles of ion-exchange	1	Board	20/3/18 - Hamplated &
48	Tutorial class	2	Board	21/2/18-1 completed ay

Faculty

Head of the Department