



# IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM-606 201, KALLAKURICHI DISTRICT, TAMIL NADU, INDIA.

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai.

2(f) Status of UGC, An ISO 9001: 2015 Certified Institution

A Christian Minority Institution run by the Franciscan Sisters of the Immaculate Heart of Mary Society, Puducherry.

Phone: 04151-258325, 258326

Website: www.iecw.edu.in

Err.ail ID: idhaya@iecw.edu.in

## CRITERION 1 – CURRICULAR ASPECTS

### KEY INDICATOR - 1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum delivery through a well planned and documented process

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*Ramani*  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.  
PRINCIPAL  
IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT

Date: 21.01.2021



**CENTRE FOR ACADEMIC COURSES**  
ANNA UNIVERSITY: : CHENNAI – 600 025

**ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES**

**December 2020 – May 2021 (Even Semester – Final Semester\*)**

**UG & PG Programmes**

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	VIII	14.12.2020	12.04.2021**	15.04.2021	26.04.2021
2.	B.Arch. (Full-Time)	X				
3.	M.E. / M.Tech./ M.Arch.(FT)	IV				
4.	M.C.A. (Full-Time)	VI				
5.	M.B.A. (FT)	IV				
6.	M.Sc. (5 Yrs-Integrated)	X				
7.	M.B.A. (5 Yrs-Integrated)	X				

\* **Odd Semester - End Semester Examinations Holidays from 01.02.2021 to 17.02.2021.**

**NOTE:**

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

\*\* In order to ensure minimum no. of working days, the following 8 Saturdays are declared as working days.

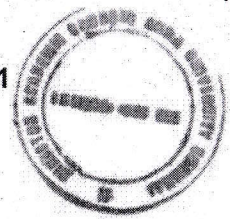
Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	20.02.2021	Friday
2.	27.02.2021	Tuesday
3.	06.03.2021	Wednesday
4.	13.03.2021	Friday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
5.	20.03.2021	Monday
6.	27.03.2021	Tuesday
7.	03.04.2021	Wednesday
8.	10.04.2021	Thursday

*Handwritten signature in blue ink*  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,**  
**PRINCIPAL**  
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**CHINNASALEM-606 201, KALLAKURICHI DT**

*Handwritten signature and date: 21.1.2021*  
**DIRECTOR**  
**ACADEMIC COURSES**

Date: 21.01.2021



**CENTRE FOR ACADEMIC COURSES**  
ANNA UNIVERSITY: : CHENNAI – 600 025

**ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES**

**February 2021 – June 2021 (Even Semester – Except II & Final Semester)\***

**UG & PG Programmes**

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	IV,VI	18.02.2021	21.05.2021**	24.05.2021	02.06.2021
2.	B.E. / B.Tech (Part-Time)	IV,VI				
3.	B.Arch. (Full-Time)	IV,VI,VIII				
4.	M.C.A. (Full-Time)	IV				
5.	M.Sc. (5 Yrs-Integrated)	IV,VI,VIII				
6.	M.B.A. (5 Yrs-Integrated)	IV,VI,VIII				

\* As per the directives of the Government of Tamil Nadu, the classes will be conducted in ONLINE mode

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.07.2021 (Thursday)

**NOTE:**

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

\*\* In order to ensure minimum no. of working days, the following 12 Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	20.02.2021	Friday
2.	27.02.2021	Tuesday
3.	06.03.2021	Wednesday
4.	13.03.2021	Friday
5.	20.03.2021	Monday
6.	27.03.2021	Tuesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	03.04.2021	Wednesday
8.	10.04.2021	Thursday
9.	17.04.2021	Friday
10.	24.04.2021	Monday
11.	08.05.2021	Tuesday
12.	15.05.2021	Wednesday

*Juveni*  
**Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,** DIRECTOR  
ACADEMIC COURSES

PRINCIPAL

IDHAYA ENGG. COLLEGE FOR WOMEN  
CHINNASALEM-606 201, KALLAKURICHI DT.

Date : 06.08.2020

**CENTRE FOR ACADEMIC COURSES**  
ANNA UNIVERSITY: : CHENNAI – 600 025

**ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES**

**August 2020 – November 2020 (ODD SEMESTER – Except I Semester)**

**UG & PG Programmes**

Sl. No.	Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	All UG/PG Programmes (except I Semester)	12.08.2020	26.10.2020**	28.10.2020	09.11.2020
2.	B.E. / B. Tech.(Part-Time) – III, V , VII				

**RE - OPENING DAY FOR THE NEXT SEMESTER: 14.12.2020 (Monday)**

**NOTE:**

1. The Theory and Practical Examination schedules which will be published in due course by the Controller of Examinations, Anna University, Chennai should be followed. (Practical Examinations will be conducted before the theory examinations).
2. Assessment Schedule for the August 2020 – November 2020 should be followed strictly.
3. Saturdays included in the Assessment period shall be used for conducting the Assessment Tests.

**\*\* In order to ensure minimum no. of working days, the following Saturdays are declared as working days.**

Sl. No.	Working Days (Saturdays for UG & PG )	Time Table of the Week Day to be Followed
1.	05.09.2020	Tuesday
2.	12.09.2020	Friday
3.	19.09.2020	Monday
4.	26.09.2020	Tuesday

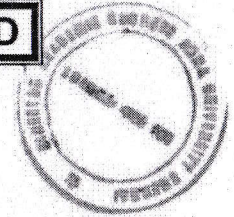
Sl. No.	Working Days (Saturdays for UG & PG )	Time Table of the Week Day to be Followed
5.	03.10.2020	Wednesday
6.	10.10.2020	Thursday
7.	17.10.2020	Friday
8.	24.10.2020	Monday

*meeni*  
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**CHINNASALEM-606 201, KALLAKURICHI DT.**

DAC - SB

*10/08/2020*  
**DIRECTOR**  
**ACADEMIC COURSES**

Date: 06.02.2021

**REVISED****CENTRE FOR ACADEMIC COURSES**

ANNA UNIVERSITY: : CHENNAI – 600 025

**ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES****December 2020 – April 2021 (ODD SEMESTER – I Semester)\*****PG (FT) Degree Programmes**

Sl. No	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	M.B.A.(FT)	I	09.12.2020	13.03.2021**	15.03.2021	24.03.2021
2.	M.B.A. (5 Yrs-Integrated)	I				
3.	M.E. / M. Tech. / M. Arch.(FT)	I	30.12.2020	03.04.2021**	05.04.2021	15.04.2021

\* As per the directives of the Government of Tamil Nadu, the classes will be conducted in ONLINE mode

RE-OPENING DAY FOR THE NEXT SEMESTER: 03.05.2021 (Monday)\*\* In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	12.12.2020	Friday
2.	19.12.2020	Friday
3.	26.12.2020	Thursday
4.	02.01.2021	Friday
5.	09.01.2021	Tuesday
6.	23.01.2021	Thursday
7.	30.01.2021	Monday
8.	06.02.2021	Tuesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
9.	13.02.2021	Wednesday
10.	20.02.2021	Thursday
11.	27.02.2021	Friday
12.	06.03.2021	Monday
13.	13.03.2021	Tuesday
14.	20.03.2021***	Wednesday
15.	27.03.2021***	Thursday
16.	03.04.2021***	Friday

*[Signature]*  
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**PRINCIPAL**  
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*[Signature]*  
**DIRECTOR**  
**ACADEMIC COURSES**



# IDHAYA ENGINEERING COLLEGE FOR WOMEN, Chinniasalem - 606201

## Academic Calendar - EVEN Semester (Jan 2021 - Jun 2021)

Days	January 2021	February 2021	March 2021	April 2021	May 2021	June 2021
<b>Fri</b>	1 • New Year					
<b>Sat</b>	2				1 • May Day	
<b>Sun</b>	3				2	
<b>Mon</b>	4 • Web portal Entry-II – UG I.sem.	1 • Univ.Exam – Hr. sem starts (MCQ)	1		3 • Commencement of PG II sem. Class	
<b>Tue</b>	5	2 • Web portal Entry-III – UG I.sem.	2		4	1
<b>Wed</b>	6	3	3 • IQAC – Ext. AAA starts		5 • Web portal Entry-I – UG II.sem.	2
<b>Thu</b>	7	4	4	1	6	3
<b>Fri</b>	8	5	5	2 • Good Friday	7	4 • Webinar -Reserch initiative
<b>Sat</b>	9	6	6	3 • Web portal Entry-IV– PG I.sem.	8	5
<b>Sun</b>	10	7	7	4	9	6 • OSAI-Virtual Meet (2004-2008 Batch)
<b>Mon</b>	11	8	8 • Womens day celeb.	5	10	7 • IQAC - 5 Days FDP
<b>Tue</b>	12	9	9	6 • TN Assembly Election	11	8
<b>Wed</b>	13 • Bogi	10	10 • Web portal Entry-III – PG I.sem.	7	12	9
<b>Thu</b>	14 • Pongal	11	11	8 • Commencement of UG II sem. Class • NAAC Awareness Pgm.	13 • ECE Virtual Project Expo	10
<b>Fri</b>	15 • Thiruvalluvar Day	12	12 • Univ.Practical Exam – I sem starts	9	14	11
<b>Sat</b>	16 • Uzhavar Day	13	13 • EEE - Tech.Symposium	10	15	12
<b>Sun</b>	17	14 • IQAC – Ext. AAA starts	14	11	16 • OSAI-Virtual Meet (2015-2019 Batch)	13 • OSAI-Virtual Meet (2006-2010 Batch)
<b>Mon</b>	18	15 • Web portal Entry-II – PG I.sem.	15 • Univ.Exam -First yr. starts (MCQ)	12 • Last working day IV.Yr. • Web portal Entry-IV – UG IV Yr. • ISO MRM Meeting	17	14
<b>Tue</b>	19	16	16 • CIAT I – II & III Yr starts • Web portal Entry-III – UG IV Yr.	13 • Telugu New Year	18	15 • Web portal Entry-III – UG II.sem.
<b>Wed</b>	20 • Web portal Entry-I – PG I.sem.	17	17	14 • Tamil New Year	19	16 • OSAI-Virtual Meet (2004-2008 Batch)
<b>Thu</b>	21	18 • Commencement of UG Hr.Sem.	18 • CIAT II – IV yr.	15 • Commencement. of practical IV Yr. • IQAC-NAAC Workshop	20 • IT - Virtual Project Expo	17
<b>Fri</b>	22	19	19	16	21 • EEE Virtual Project Expo	18 • EEE & IT – Webinars
<b>Sat</b>	23	20 • Web portal Entry-I – UG IV Yr.	20 • ECE - Tech.Symposium	17	22 • CSE - Virtual Project Expo • Web portal Entry-II – UG II.sem.	19

**PRINCIPAL**  
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Days	January 2021	February 2021	March 2021	April 2021	May 2021	June 2021
Sun	24	21	21	18	23	20
Mon	25	22	22	19	24	21
Tue	26	23	23	20	25	22
Wed	27	24	24	21	26	23
Thu	28	25	25	22	27	24
Fri	29	26	26	23	28	25
Sat	30	27	27	24	29	26
Sun	31	28	28	25	30	27
Mon			29	26	31	28
Tue			30	27		29
Wed			31	28		30
Thu				29		
Fri				30		
Sat						
Working Days :						
Cum. Working Days :						

Copy to:

1. Secretary for her kind information
2. Vice Principal
3. HODs with a request to circulate among staff members
4. Manager
5. File

*R. Gurumani*  
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# IDHAYA ENGINEERING COLLEGE FOR WOMEN, Chinnasaalem - 606201

## Academic Calendar - ODD Semester (Jul 2020 - Dec 2020)

Days	July 2020	August 2020	September 2020	October 2020	November 2020	December 2020
Wed	1 • IQAC & ITEIC - Webinar					
Thu	2 • Professional Asso.- Webinar			1		
Fri	3			2		
Sat	4	1		3		
Sun	5 • OSAL-Virtual Meet (2002-2006 Batch)	2		4	1	
Mon	6 • 2 Days National FDTP on 21 <sup>st</sup> Century learner	3		5	2	
Tue	7 • Anglo Franca Club- Webinar (5 Days)	4	1	6	3	1
Wed	8	5	2	7	4	2
Thu	9	6	3	8	5	3
Fri	10	7	4	9	6	4
Sat	11	8	5	10	7	5
Sun	12	9	6	11	8	6
Mon	13	10	7	12	9	7
Tue	14	11	8	13	10	8
Wed	15	12	9	14	11	9
Thu	16	13	10	15	12	10
Fri	17	14	11	16	13	11
Sat	18	15	12	17	14	12
Sun	19	16	13	18	15	13
Mon	20	17	14	19	16	14
Tue	21	18	15	20	17	15
Wed	22	19	16	21	18	16
Thu	23	20	17	22	19	17
Fri	24	21	18	23	20	18
Sat	25	22	19	24	21	19
Sun	26	23	20	25	22	20

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Days	July 2020	August 2020	September 2020	October 2020	November 2020	December 2020
Mon	27 • IT – Webinar python pgm & its appln. • ITEIC & TP – Webinar (5 Days)	24	21	26 • Vijaya dasami	23 • Commencement of UG 1 <sup>st</sup> .Sem.& Freshers Day	21 • CIAT I – First.Sem starts
Tue	28	25	22 • ITEIC – Webinar	27 • Web portal Entry-IV – Hr.sem.	24 • UG 1 <sup>st</sup> .Sem online Class Starts	22 • VAC – Data Analysis with JAMOVI, FPGA Architec.&Prototyping,PCB & Circuit Designing, Statisticsn with R pgm. And Arduino platform and C pgm.
Wed	29	26	23 • UG Project viva-voce	28 • T&P- Softskills Training(2 Days)	25 • UG 1 <sup>st</sup> .Spoken Eng. Class (1 week)	23
Thu	30	27	24	29	26	24
Fri	31 • IQAC - FDTP Efec.Learning and Happy learning (2 Days)	28 • OSAI-Virtual Meet (2008-2012 Batch) • WEC & IYM - Webinar	25 • PG Project viva-voce phase II	30 • Milad-un-Nabi	27	25 • X mas
Sat		29	26	31	28	26
Sun		30 • OSAI-Virtual Meet (2009-2013 Batch)	27		29	27
Mon		31 • CIAT II – Hr.Sem starts	28		30 • Midel Exam Hr. Sem.	28
Tue			29			30 • Commencement of PG I Sem.
Wed			30 • CIAT III –Hr.Sem starts • Web portal Entry-III – Hr.sem.			31
Thu						
Working Days :						
Cum. Working Days :						

Copy to:

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Idhaya Engineering College for Women, Chinnasalem


SUBJECT ALLOTMENT - YEAR WISE


DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR: 2020- 2021

SEMESTER: ODD

Class	Subject Code	Subject name	Staff Name	Signature
I EEE	MA 8353	Transforms and partial differential equation(TPDE)	Ms.A.Rosy Rexaline	A. Rosy Rexaline
	EE 8351	Digital Logic Circuits (DLC)	Ms. V. Devi Priya	Ms. V. Devi Priya
	EE 8391	Electromagnetic Theory (EMT)	Ms.J.R.Lydia Jenifer (F.A)	Ms.J.R.Lydia Jenifer
	EE 8301	Electrical Machines – I (EM-I)	Mr.C.Kumar	Mr.C.Kumar
	EC 8351	Electronic Devices and Circuits (EDC)	Mrs.V.Dhivya Priya	Mrs.V.Dhivya Priya
	ME 8792	Power Plant Engineering (PPE)	Mr.P.Marudhamuthu	Mr.P.Marudhamuthu
	EC 8311	Electronics Laboratory (EL-LAB)	Mr.M.Mahesh	Mr.M.Mahesh
	EE 8311	Electrical Machines Laboratory – I (EM-I Lab)	Mr.V.Karthikeyan	Mr.V.Karthikeyan
III EEE	EE8501	Power System Analysis (PSA)	Ms.J.R.Lydia Jenifer	Ms.J.R.Lydia Jenifer
	EE8551	Microprocessors and Microcontrollers (MP&MC)	Mr.M.Mahesh	Mr.M.Mahesh
	EE8552	Power Electronics (PE)	Ms. V. Devi Priya	Ms. V. Devi Priya
	EE8591	Digital Signal Processing	Ms.J.Sumitha Josephine	Ms.J.Sumitha Josephine
	CS8392	Object Oriented Programming	Mrs.K.Gandhimathi	Mrs.K.Gandhimathi
	OMD551	Basics of Biomedical Instrumentation	Mrs.T.Jayapriya	Mrs.T.Jayapriya
	EE8511	Control and Instrumentation Laboratory (C&I LAB)	Mr.S.Silambarasan	Mr.S.Silambarasan
	HS8581	Communication Skills - Laboratory Based (Comm. LAB)	Mrs.Yuvarani	Mrs.Yuvarani
CS8383	Object Oriented Programming Laboratory	Sr.Maria Anand Milani	Sr.Maria Anand Milani	
IV EEE	EE8701	High Voltage Engineering (HVE)	Mrs.T.Jayapriya	Mrs.T.Jayapriya
	EE8702	Power System Operation and Control	Mr.P.Marudhamuthu	Mr.P.Marudhamuthu
	EE8703	Renewable Energy Systems	Mr.C.Kumar	Mr.C.Kumar
	OCS752	introduction to C Programming	Sr.Maria Anand Milani	Sr.Maria Anand Milani
	EI8075	Fiber Optics and Laser Instrumentation	Mr.S.Silambarasan	Mr.S.Silambarasan
	EE8010	Power System Transients	Mr.V.Karthikeyan	Mr.V.Karthikeyan
	EE8711	Power System Simulation Laboratory (PSS-LAB)	Mr.S.Silambarasan	Mr.S.Silambarasan
	EE8712	Renewable Energy Systems Lab( (RES Lab)	Mr.C.Kumar	Mr.C.Kumar

  
HoD

  
Dr.R.GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E., Principal  
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Idhaya Engineering College for Women, Chinnasalem

## Master Lesson Plan

Department	Subject Code / Name	Regulation	L	T	P	C	Hours/ Week
ECE - M.E /CS	CU5071/ DIGITAL COMMUNICATION RECEIVERS	2017	3	0	0	3	5
Sub. Objective:	<ul style="list-style-type: none"><li>To understand the basic principles of Digital communication techniques.</li><li>To gain knowledge about receivers for fading channels &amp; AWGN channel.</li><li>To understand the concepts of synchronization techniques &amp; Adaptive equalization.</li></ul>						
Outcomes:	<ul style="list-style-type: none"><li>Apply basic principles of digital communication techniques.</li><li>Discuss on receivers for AWGN &amp; Fading channel.</li><li>Describe various synchronization techniques.</li><li>Design adaptive equalization algorithms to satisfy the evolving demands in digital communication.</li></ul>						

Reference Book	Title	Author	Publication	Edition
R1	Digital communication receivers	Heinrich Meyer, S.A.Fechtcl	John Wiley	Vol I & II,1997
R2	Synchronization in Digital Communications	H.Meyr & G.Ascheid	John Wiley	1990
R3	Digital communication	John G.Proakis	Mc Graw-Hill	2001
R4	Principles of Digital Communication	R.G.Gallager	Cambridge University press	2008
R5	Digital communication over fading channel	Simon Marvin	John Wiley	2000
R6	Synchronization Techniques for Digital Receivers	U. Mengali & A.N.D'Andrea	Kluwer	1997

### Teaching Aid (TA):

BB Black Board

PP Power Point

VA Visual Aids (Video / Edusat class / Animation / Audio)

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## Teaching Methodology (TM):

AC	Acronym	AS	Assignment	BC	Bridge Course	GD	Group Discussion
GL	Guest Lect.	IV	Industrial Visit	MM	Mind Mapping	NM	NPTEL Videos / Materials
PD	Project / Demo	RP	Role play	SR	Seminar	TT	Tutorials
							Lect. Lecture

Period	Topics of unit : I Review of Digital Communication Techniques	Pages Referred							TA	TM
		R1	R2	R3	R4	R5	R6	R7		
1.	<b>Base band communication</b> – Representation of band pass signals, representation of linear band pass systems, response of a band pass system to a band pass signal.	-		148-154					BB	Lect.
2.	<b>Signal space representation</b> – vector space concepts, signal space concepts, orthogonal expansions of signals, Gram Schmidt procedure.	-		158-168	150-158	784-785			BB	Lect.
3.	Representation of digitally modulated signals, Representation of modulated signals in time domain & frequency domain, Memory less modulation methods	-		168-181					BB	Lect.
4.	<b>Linear Modulation Techniques</b> – Binary phase shift keying-transmitted signal, spectrum & Bandwidth of BPSK, BPSK receiver, Differential phase shift keying -- transmitted signal, spectrum & Bandwidth of DPSK, DPSK receiver	-		181-182	183-194				BB	Lect.
5.	<b>Quadrature phase shift keying-</b> spectrum & bandwidth of QPSK signals, Transmission & detection techniques, offset QPSK, pi / 4 Quadrature phase shift keying - Transmission & detection techniques.	-		182-185	191-195				BB	Lect.
6.	<b>Non linear modulation Techniques</b> – Binary FSK, Spectrum & bandwidth of BFSK signal, coherent & non coherent detection of BFSK, CPFSK & space diagram.	-		185-192					BB	Lect.

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7.	Continuous phase modulation (CPM), Minimum shift keying (MSK) – transmission & detection techniques.	-		192-201					BB	Lect.
8.	<b>Error tracking &amp; spectral characteristics of digital modulation</b> – power spectra of linearly modulated signal.	-		201-207	199-				BB	Lect.
9.	Power density spectra of CPFSK & spectral characteristics of CPM signals, power spectra of modulated signals with memory. Summary & review of University questions.	-		207-221					BB	Lect.

**Additional Exercises:** Class Test1: 1. What is duo binary signalling? Obtain the frequency response characteristics of the duo binary conversion filter.

2. With relevant diagram explain the decision process of the precoded duo binary scheme. (Nov/Dec 2017)

**Class Test2:** 1. Explain the generation of ASK, FSK & PSK digital modulation schemes. Also find the orthonormal basis functions and give the signal space representation.

Assignment on CIAT-I question paper retest for failures.

Perio d	Topics of unit : 2 <b>Optimum receivers for AWGN channel</b>	Pages Referred							TA	TM
		R1	R2	R3	R4	R5	R6	R7		
1.	Optimum receivers for signal corrupted by AWGN channel , <b>correlation demodulator</b> – Block diagram, conditional pdf, probability density function for the sampled signal.	-		231- 236	250- 261	-	-	-	BB	Lect.
2.	<b>Matched filter</b> – properties of matched filter – delay factor, Fourier & inverse Fourier transform of matched filter output, output noise power.	-		236- 239	-	-	-	-	BB	Lect.
3.	Frequency domain interpretation of the matched filter, calculations, frequency domains equations & interpretations.	-		239- 242	-	-	-	-	BB	Lect.
4.	Optimum detector – Optimum demodulation & detection of signals, block diagram, detected signals, SNR calculations.	-		242- 247	-	-	-	-	BB	Lect.
5.	<b>Maximum likelihood sequence detector</b> – PAM transmitted signal, joint probability density function, Euclidean distance.	-		247- 254	272- 276	-	-	-	BB	Lect.

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6.	<b>Optimum receiver for CPM signals</b> – optimum demodulation & detection of CPM, performance of CPM signals ,symbol by symbol detection of CPM signals	-	-	283-300	-	-	-	-	BB	Lect.
7.	Sub optimum demodulation & detection of CPM signals, Envelope detectors for <b>M – ary Orthogonal signals</b> –M decision matrix, input to the detector, normalized variables, probability & SNR per symbol.	-	-	305-307	-	-	-	-	BB	Lect.
8.	<b>Envelope detectors for M – ary binary signals</b> –spectral characteristics of digitally modulated signals & error tracking in digitally modulated signals.	-	-	307-311	-	-	-	-	BB	Lect.
9.	<b>Envelope detectors for correlated binary signals</b> –marginal Probability density function of Rician distributed signals, probability of error, error probability, Summary & Review of university questions.	-	-	311-312	350-362	-	-	-	BB	Lect.

**Additional Exercises:** - Class Test1:1. Discuss briefly about Correlation Demodulator and draw its diagram.  
2.Using viterbi algorithms derive the cross correlation metric for the Surviving sequences of a CPM optimum demodulator.

Assignment on CIAT-II question paper for failures.

Period	Topics of unit : 3 <b>Receivers for fading channels</b>	Pages Referred							TA	TM
		R1	R2	R3	R4	R5	R6	R7		
1.	<b>Characterisation of fading multiple channels</b> – channel correlation functions & power spectral density functions.	-	-	801-810	-	-	-	-	BB	Lect
2.	<b>Statistical models</b> for multipath fading channels – Clarke’s model for flat fading, simulation of Clarke’s model, Propagation models for mobile radio channels	-	-	810-814	-	-	-	-	BB	Lect
3.	<b>Flat fading channel</b> – level crossing & fading statistical calculations , average fade duration	-	-	840-845	-	-	-	-	BB	Lect

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4.	<b>Frequency selective fading channel</b> – frequency selective fading, wideband channels.	-	-	845-852	-	538-564	-	-	BB	Lect
5.	<b>Receiver diversity techniques</b> – Derivation of selection diversity improvement, mean SNR, average SNR, Derivation of maximal ratio combining improvement.	-	-	821-826	-	-	-	-	BB	Lect
6.	<b>Transmitter diversity techniques</b> –selection diversity, feedback diversity, Maximal ratio combining & equal gain diversity, comparison of all diversity techniques.	-	-	827-831	-	-	-	-	BB	Lect
7.	Frequency diversity, time diversity, <b>Optimal receivers for data detection</b> probability of error for the memory less modulation.	-	-	831-839	-	-	-	-	BB	Lect
8.	Optimal receivers for <b>Synchronisation parameter estimation</b> – Conditional probability density functions, average error probability for binary orthogonal signals	-	-	852-862	-	-	-	-	BB	Lect
9.	<b>Coded waveform for fading channel</b> –probability of error for soft decision decoding of linear binary block codes, Summary & review of university questions.	-	-	863-878	-	-	-	-	BB	Lect

**Additional Exercises: Class test1** – 1. Write a short note on the following: a) Narrow band fading models.  
b) Simulation methodology of fading channels.  
2. Discuss classification and characterization of fading multipath channels.  
Assignment on CIAT-III question paper for failures.

Perio d	Topics of unit : 4 <b>Synchronization Techniques</b>	Pages Referred							TA	TM
		R1	R2	R3	R4	R5	R6	R7		
1.	<b>Carrier &amp; signal synchronization</b> –signal parameter estimation, propagation delay, and maximum likelihood function, maximum			333-336	-	-	-	-	BB	Lect.

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	a posterior probability (MAP) criterion.									
2.	Carrier recovery & symbol synchronization in signal demodulation – BPSK & M- ary PSK receiver, MPAM,QAM	-	-	336-338	-	-	-	-	BB	Lect.
3.	<b>Carrier phase estimation</b> – maximum Likelihood carrier phase estimation, effect of additive white Gaussian noise on the phase estimation.	-	-	338-341	-	-	-	-	BB	Lect.
4.	Phase locked loop <b>PLL</b> –Basic operation of PLL, Basic elements of PLL transient response of PLL , lock range , capture range , pull in time , voltage controlled oscillator.	-	-	341-346	-	-	-	-	BB	Lect.
5.	<b>Decision directed loops</b> – decision directed carrier phase estimation or decision feedback carrier phase estimation, double sideband PAM signal receiver, QAM signal receiver	-	-	347-352	-	-	-	-	BB	Lect.
6.	<b>Symbol timing estimation</b> –transmission of the clock signal, bandwidth allocation, advantages & disadvantages.	-	-	359-360	-	-	-	-	BB	Lect.
7.	<b>Maximum likelihood timing estimation</b> –block diagram and its calculations on log likelihood function.	-	-	360-361	-	-	-	-	BB	Lect.
8.	<b>Non – decision directed timing estimation</b> – Binary PAM Early late gate synchronizers, log likelihood function by the finite difference.	-	-	362-365	-	-	-	-	BB	Lect.
9.	<b>Joint estimation</b> of carrier phase & symbol timing for the decision directed loops, necessary conditions for the estimation of ML estimates.	-	-	366-368	-	-	-	-	BB	Lect.

**Additional Exercises: Class Test 1:**1.Explain in detail about frequency selective & non selective fading  
2. Apply MMSE concepts to derive MMSE equalizer for a band limited channel.

**Class Test 2:**1. Enumerate in detail about the Zero forcing algorithm & adaptive decision feedback Equalizers.  
2. Explain in detail about frequency selective & non selective fading

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**Assignment** - University & all possible 2 mark questions, Assignment on MODEL Exam question paper for failures.

Period	Topics of unit : 5 <b>Adaptive Equalization</b>	Pages Referred							TA	TM
		R1	R2	R3	R4	R5	R6	R7		
1.	Linear equalization, Adaptive linear equalizer – <b>Zero forcing algorithm</b> – cross correlation between the error sequence, decision directed loop, its characteristics.	-	-	660-662	-	-	-	-	BB	Lect.
2.	<b>LMS algorithm</b> – optimum equalizer coefficients, Levinson Durbin Algorithm, variance calculations.	-	-	663-666	-	-	-	-	BB	Lect.
3.	Convergence properties of the LMS algorithm – Convergence of least mean square algorithm & its condition.	-	-	666-668	-	605-610	-	-	BB	Lect.
4.	<b>Adaptive decision feedback equalizer</b> –recursive equation for adjusting the equaliser coefficients.	-	-	677-678	-	833-836	-	-	BB	Lect.
5.	Adaptive <b>Equalisation of Trellis coded signals</b> , Viterbi decoder block diagram, operation, vector estimation, Reduced state viterbi detection algorithm – Transmitter & receiver.	-	-	678-682	-	-	-	-	BB	Lect.
6.	Recursive least square (Kalman) algorithms, <b>Kalman Algorithm</b> –Kalman gain vector, output & error computations.	-	-	682-688	-	-	-	-	BB	Lect.
7.	Linear prediction & the lattice filter, Minimization of the mean square error,normal equations or Yule – Walker equations, Levinson – Durbin algorithm for the predictor coefficients.	-	-	688-692	-	-	-	-	BB	Lect.
8.	<b>Blind equalizers</b> – Blind equalisation, Blind equalization based on the maximum likelihood criterion, joint maximum – likelihood estimation, channel estimation based on average over data sequences.	-	-	693-697	-	-	-	-	BB	Lect.
9.	<b>Stochastic gradient algorithm</b> – Godard algorithm, Blind equalization algorithm based on second & higher order signal statistics	-	-	697-704	-	-	-	-	BB	Lect.

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**Additional Exercises: Class Test 1:** 1. Enumerate in detail about the Zero forcing algorithm & adaptive decision feedback Equalizers.

2. Explain the stochastic gradient algorithm & blind equalizers.

**Assignment -** Assignment on MODEL question paper retest for failures.


**Approval:**

	Name	Designation	Signature	Date
Prepared by	Mrs.S.Dhanalakshmi	ASP/ECE		2.2.21
Verified by	Dr.Amudha Jeeva Kumari	HOD / ECE		2.2.21
Approved by	Dr.R.Gurumani	Principal		2.2.21

**Yester year History: (R2017)**

S.No	Name of the Faculty	Year/Class	SEM/Year	Pass %	Remarks
1.	Ms.Princy Pushpa	I M.E (CS)	Even/2018-2019	100%	
2.	Mrs.K.Mohana	I M.E (CS)	Even/2019-2020	100%	

**Revision History:**

Date of revision	Unit	Period	Details of Revision	Revised by	Approved by
02.02.2021	I-V	2020-2021	<b>Additional Exercises and Assignment details included</b>	Mrs.S.Dhanalakshmi	
					

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# IDHAYA ENGINEERING COLLEGE FOR WOMEN

CHINNASALEM - 606 201.

Ref: IECW/Exam cell/CIAT -II/ APR 2021

Date: 21.04.2021

## CIAT- II [Open Book Written Test] Department of Computer Science & Engineering Time Table

DATE	SESSION	YEAR	SUBJECT CODE	SUBJECT NAME
26.04.2021 Monday	FN	II	CS8492	Database Management Systems
		III	CS8691	Artificial Intelligence
	AN	II	CS8493	Operating Systems
		III	CS8603	Distributed Systems
27.04.2021 Tuesday	FN	II	CS8491	Computer Architecture
		III	CS8602	Compiler design
	AN	II	MA8402	Probability and Queuing Theory
		III	CS8651	Internet Programming
28.04.2021 Wednesday	FN	II	CS8451	Design and Analysis of Algorithm
		III	IT8076	Software Testing
	AN	II	CS8494	Software Engineering
		III	CS8601	Mobile Computing

Note: Mark statement should be submitted in the next day of examination to FA and HoD's should submit the consolidate mark statement to the principal.

S. Jay. Pr  
HOOD

*Keerthi*  
PRINCIPAL

*Keerthi*  
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Ref: IECW/Exam cell/Model/ APR 2021

Date: 09.04.21

**MODEL EXAM (MCQ Type Question Paper)**  
**Department of Electrical & Electronics Engineering**  
**Time Table**

DATE	SESSION & Time Duration	YEAR	SUBJECT CODE	SUBJECT NAME
10.04.21 Saturday	AN	IV	EE8015	Electric Energy Generation, Utilization and Conservation
12.04.21 Monday	AN	IV	EE8017	High Voltage Direct Current Transmission

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HOD 09/04/21

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PRINCIPAL 09/04/21

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Ref: IECW/Exam cell/CIAT -I/ MAR 2021

Date: 13.03.2021

**CIAT- I**  
**Department of Electronics & Communication Engineering**  
**Time Table**

Test Hour : 1<sup>st</sup> and 2<sup>nd</sup> Periods

DATE	YEAR	SUBJECT CODE	SUBJECT NAME
16.03.2021 Tuesday	II	EC8491	Communication Theory
	III	MG8591	Principles of Management
17.03.2021 Wednesday	II	MA8451	Probability and Random Processes
	III	EC8004	Wireless Networks
18.03.2021 Thursday	II	EC8451	Electromagnetic Fields
	III	EC8652	Wireless Communication
19.03.2021 Friday	II	EC8453	Linear Integrated Circuits
	III	EC8651	Transmission Lines and Waveguide
23.03.2021 Tuesday	II	EC8452	Electronic Circuits -II
	III	EC8691	Microprocessors and Microcontrollers
25.03.2021 Thursday	II	GE8291	Environmental Science and Engineering
	III	EC8095	VLSI Design

*B. A. Jeeva*  
13.3.21  
HOD

*Dr. R. Gurumani*  
13/3  
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Ref: IECW/Exam cell/PG/CIAT -I/ MAR 2020

Date: 02.03.2020

**CIAT- I**

**Department of Electronics and Communication Engineering**

**M.E – Communication Systems**

**Time Table**

**FN SESSION :**

Test Hour : 1<sup>st</sup> and 2<sup>nd</sup> Periods

**AN SESSION :**

Test Hour : 5<sup>th</sup> and 6<sup>th</sup> Periods

DATE	SESSION & Time Duration	YEAR	SUBJECT CODE	SUBJECT NAME
04-03-20 Wednesday	FN	I	CU5291	Advanced Wireless Communication Systems
	AN	I	CU5201	MIC and RF System Design
05-03-20 Thursday	FN	I	CU5292	Electromagnetic Interference and Compatibility
	AN	I	CU5071	Digital Communication Receivers
06-03-20 Thursday	FN	I	DS5291	Advanced Digital Image processing
	AN	I	EL5071	Broadband Access Technologies

*JSS*  
2-3-20  
HOD

*Neeraj*  
PRINCIPAL

*Neeraj*  
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# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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## ATTENDANCE & ASSESSMENT RECORD

Name of the Faculty : S. Jeeva

Designation : AP

Dept. of the Faculty : IT

Subject code/Name : 278501 / Web Technology

Branch : IT

Year / Semester : III / V

Batch : 2017 - 2021

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## COURSE DELIVERY PLAN

Unit No.	Unit Description	Start Date	Finish Date	No. of Period	Test Plan
1.	web site Basics and HTML	2.7.19	9.7.19	9	CIAT-I Model
2.	css and client side scripting	16.7.19	26.7.19	9	CIAT-I Model
3.	Server side scripting	27.7.19	8.8.19	9	CIAT-II Model
4.	JSP and XML	9.8.19	22.8.19	9	CIAT-II Model
5.	AJAX and web services	24.8.19	6.9.19	9	MODEL

*S. Siva*  
Faculty In-charge

*P. Senthil*  
H.O.D

*[Signature]*  
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## COURSE DELIVERY RECORD

Description	UNIT I	UNIT II	UNIT III	UNIT IV	UNIT V	Total Hours	Remarks
Started on	3.7.19	16.7.19	25.7.19	16.8.19	3.9.19		Coaching Periods: 12
Completed on	12.7.19	24.7.19	14.8.19	30.8.19	19.9.19		
Deviation (Days)	-	-	4	2	5	11	
Planned Hours	9	9	9	9	9	45	
Hours Handled	9	9	9	9	9	45	
Deviation (Hours)	-	-	-	-	-	-	
FACULTY	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
HOD	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	
PRINCIPAL	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	

Sub. Code	Subject Name	L	T	P	C	Hrs. / Week
IT8501	web Technology	3	0	0	3	5

**Objective:**  
To understand about client-server communication and protocols used during communication. To design interactive web pages using scripting languages.

**Outcome:**  
Design simple web pages using markup languages like HTML and XHTML. create dynamic web pages using DHTML and Java script that is easy to navigate and use.

**1. Text Books:**  
1. Jeffrey C. Jackson, "Web Technologies - A computer science perspective", Pearson Education, 2006.

**2. Reference Books:**  
1. Robert wa Sebesta, "Programming the WWW", 4<sup>th</sup> edition Pearson Education 2007. 2. Deitel, Deitel, Edward Hold -berg, "Internet & WWW How to Program", 3<sup>rd</sup> Edition, Pearson Education, 2006. 3. Marty Hall and Larry Brown, core web programming 2<sup>nd</sup> edition, Pearson volume I and II, Pearson Education, 2001.

**3. Recommended Books:**  
1. web Technology A.A. Puntambekar Technical Publications First Edition 2015.

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## RECORD OF CLASS WORK

(Delivery should be in accordance with master lesson plan)

UNIT - I

Web site Basics and HTML

S. No	Date	Period	Topics Covered	TA	TM	Faculty Initials
1.	3-7-19	2	Web Essentials: clients, servers and communication fundamentals			
			concept in N/W, NIC, N/W layer	BB	deet	h
2.	4-7-19	4	The Internet - Basic internet Protocol FTP, HTTP, SNMP, SMTP, POP3, TCP/IP	BB	deet	h
3.	5-7-19	8	The WWW - HTTP Request message response message, history of www			
			web client, web server, MIME	BB	deet	h
4.	6-7-19	3	web clients, web servers, Markup language, introduction to HTTP			
			XHTML syntax and semantics	BB	deet	h
5.	9-7-19	4	introduction to HTML History Basic text markup, Displaying header text, Font style, text alignment, Font colors	BB	deet	h
6.	10-7-19	2	versions, Basic XHTML syntax and semantics, text markup			
			Displaying Header, Formatting text, XHTML Document	BB	deet	h
7.	11-7-19	4	HTML elements URL, lists, image as a link, targets	BB	deet	h
8.	12-7-19	7	Tables, Frames, Forms, basic table tag, background of table, Rowspan, & colspan			
			cell padding and cell spacing attributes, nested tables	BB	deet	h

## RECORD OF CLASS WORK

(Delivery should be in accordance with master lesson plan)

S. No	Date	Period	Topics Covered	TA	TM	Faculty Initials
9.	12-7-19	8	Discussing the question bank and previous year question papers	BB	deet	h
			UNIT - II			
			CSS & client side scripting			
1.	16-7-19	4	style sheets - introduction to CSS features, core syntax SS and HTML	BB	deet	h
2.	17-7-19	2	style rule cascading and inheritance, font properties			
			Box model Normal flow			
			Box layout	BB	deet	h
3.	18-7-19	4	client side programming JS language, display properties, inline block	BB	deet	h
4.	19-7-19	7	history and versions, introduction JS in perspective	BB	deet	h
5.	19-7-19	8	syntax - variables and data types, primitive type literals, other primitive types, variables declaration	BB	deet	h
6.	20-7-19	8	statements, operators, literals			
			screen O/P keyboard I/P			
			conditional statements and loops, selection statements	BB	deet	h

## RECORD OF CLASS WORK

(Delivery should be in accordance with master lesson plan)

S. No	Date	Period	Topics Covered	TA	TM	Faculty Initials
7	20-7-18	3	Functions, Objects, Arrays Returning value from arrays Function Passing Parameters to the function, Passing an array to the function, Global functions of JS	BB	Leet	SB
8	21-7-18	2	Built-in Objects / JS Debuggers, Math Object, Number Object, Date Object, Boolean Object, String, Array from processing in Java script	BB	Leet	SB
9	24-7-18	2	Discussing the question bank and previous year questions Paper.	BB	Leet	SB
			<u>UNIT - II</u>			
			<u>Server side scripting.</u>			
1	25-7-18	4	Host Object, browsers and the DOM Introduction to the Document Object model DOM History	BB	Leet	SB
2	26-7-18	8	Introsic event Handling modifying Element style, The document	BB	Leet	SB

## RECORD OF CLASS WORK

(Delivery should be in accordance with master lesson plan)

S. No	Date	Period	Topics Covered	TA	TM	Faculty Initials
3	27-7-18	3	JSec 1 events, Attributes & tags. Handling events from the body elements	BB	Leet	SB
4	31-7-18	2	DOM Event Handling - Accommodating noncompliant browsers Properties of window, event propagation, event handler registration	BB	Leet	SB
5	1-8-18	4	Server side programming Java Servlets, Architecture Overview, JSP, JSP Applets and Servlets, client-server communication deployment of Servlets, installation of JDK, Tomcat server.	BB	Leet	SB
6	7-8-18	2	lifecycle, Parameter Data Sessions, Servlets API, JSP, classes involving Servlet, HTTP-GET and POST Requests, session tracking techniques	BB	Leet	SB
7	8-8-18	4	cookies, URL Rewriting, JDBC Architecture, JDBC driver types multi-tier architecture DB connectivity	BB	Leet	SB
8	9-8-18	8	Data Storage Servlets and concurrency, create DB files in MS-ACCESS, Examples	BB	Leet	SB

## RECORD OF CLASS WORK

(Delivery should be in accordance with master lesson plan)

S. No	Date	Period	Topics Covered	TA	TM	Faculty Initials
9	13.8.19	4	Databases and Java servlet student servlet html form	BB	deet	sh
10	14.8.19	2	Discussing the question bank and previous year question papers.	BB	deet	sh
<p>P. Pruthi</p> <p><u>UNIT - IV</u></p> <p><u>JSP &amp; XML</u></p>						
1	16.8.19	8	Separating programming and presentation: JSP Technology introduction, JSP and servlets, Advantages of xml	BB		
2	20.8.19	4	support for the model-view controller paradigm, db and JSP. Representing web data. XML Advantages and disadvantages, validating the XML schema, data types, simple types, complex types			v
3	21.8.19	2	Running JSP applications Basic JSP, JavaBeans classes and JSP tag libraries and files			

## RECORD OF CLASS WORK

(Delivery should be in accordance with master lesson plan)

S. No	Date	Period	Topics Covered	TA	TM	Faculty Initials
4	22.8.19	4	Documents and vocabularies versions and declarations, namespace, DOM based XML Processing Event, documents XML, versions, declaration, DTD DOM and SAX	BB		
5	24.8.19	3	Oriented Parsing: SAX, Travers forming XML documents, SAX XSLT.	BB	deet	sh
6	27.8.19	4	selecting XML data: XPATH How to create XSL, XSL Path language			
7	28.8.19	2	Template based Transformation XSLT, overview of XSLT	BB	deet	sh
8	29.8.19	4	Displaying XML Documents in Browsers. XML document			
9	30.8.19	7	Discussing the question bank and previous year question papers	BB	deet	sh
<p>P. Pruthi</p> <p><u>UNIT - V</u></p> <p><u>AJAX and Webservices</u></p>						
1	3.9.19	4	AJAX client server Architecture	BB	deet	sh
2	5.9.19	4	XML Http Request object Call Back method	BB	deet	sh

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## RECORD OF CLASS WORK

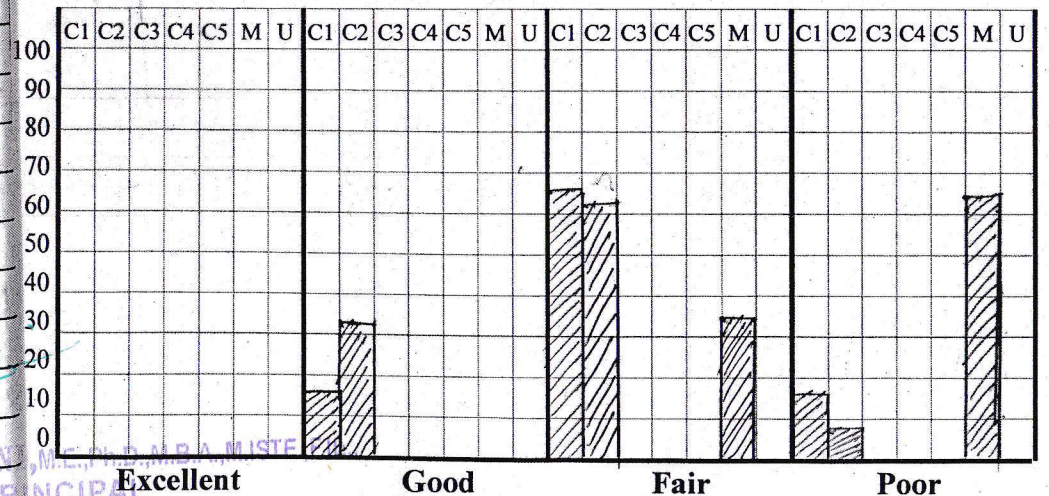
(Delivery should be in accordance with master lesson plan)

S. No	Date	Period	Topics Covered	TA	TM	Faculty Initials
3.	6.9.19	8	web service, JAX-RPC concept writing a web service concept of web service, concept of RPC, JAX-RPC concepts.	BB	dent	sh
4.	10.9.19	4	writing a Java web service client - Hello message client, WEB-INF, config.xml.	BB	dent	sh
5.	12.9.19	4	Describing web services: WSDL Representing Data types: xml schema, types, messages, port types, binding service.	BB	dent	sh
6.	13.9.19	8	communicating object data SOAP related technologies structure of SOAP, HTTP, SOAP Encoding.	BB	dent	sh
7.	17.9.19	4	Encoding of Struct data, Encoding of Arrays, example programs	BB	dent	sh
8.	18.9.19	2	Software installation - storing Java objects as files. The Serializable I/O Object input stream class	BB	dent	sh
9.	19.9.19	4	discussing the question bank and previous year question papers	BB	dent	sh

## RESULT ANALYSIS

S. No.	Name of the Exams	No. of Students Appeared	No. of Students Passed	No. of Students Failed	Pass %
1.	Previous University Results	10	10	-	100%
2.	CIAT - I	12	10	2	83.33%
3.	CIAT - II	16	15	01	93.7%
4.					
5.					
6.					
7.	MODEL (M)	14	5	9	35%
8.	University (U)	17	17	-	100%

Exam \ Grade	% Excellent (91-100 Marks)	% Good (71-90 Marks)	% Fair (50-70 Marks)	% Poor (<50 Marks)
CIAT - 1 (C1)		2 = 16.66%	8 = 66.66%	2 = 16.66%
CIAT - 2 (C2)		5 = 31.25%	10 = 62.5%	1 = 6.6%
CIAT - 3 (C3)				
CIAT - 4 (C4)				
CIAT - 5 (C5)				
MODEL (M)			5 = 35.7%	9 = 64.3%
University (U)				





## UNIVERSITY QUESTION PAPER FEEDBACK

Subject Code / Name : IT8501 / web technology  
 Regulation : 2017 Year/Sem : III / V  
 Question Paper Code : 90327  
 Date of Examination : 19.11.19 Session : PN  
 Out of Syllabus : Yes / No  
 If Yes, Mention details :

### Questions from Question Bank

Unit	1	2	3	4	5
Part - A	1, 2			7	10
Part - B	11) a, b	12) a)	16) b)	14) a)	15) b

### Questions from CIATs & Model

Test / Model	CIAT - I	CIAT - II	Model			
Part - A	3	6	10			
Part - B	11) a) 12) a)	13) a)	15) a) 16) b)			

### Questions from previous University Examinations

Year	2010	2010					
Month	Nov/Dec	May/June					
Part - A	2						
Part - B		11) b)					

Expected Pass Percentage: 80%

Your Opinion about the Question Paper:

50% repeated questions and remaining 50% own programs asked.

S. Juv

P. Senthil

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## LIST OF ABBREVIATIONS

AC	-	Acronym
AS	-	Assignment
BB	-	Black Board
BC	-	Bridge Course
C	-	Credit
CAR	-	Consolidated Attendance Report
CIAT	-	Continuous Internal Assessment Test
Fn	-	Function
GD	-	Group Discussion
GL	-	Guest Lecture
H/D	-	Hosteller / Day Scholar
Hrs.	-	Hours
IV	-	Industrial Visit
L	-	Lecture
Med	-	Medium of Instruction
MM	-	Mind Mapping
NM	-	NPTEL Videos / Materials
NPTEL	-	National Programme on Technical Enhanced Learning
P	-	Practical
PD	-	Project / Demo
PP	-	Power point Presentation
Rect.	-	Rectification
RP	-	Roleplay
SMR	-	Seminar
Sub.	-	Subject
T	-	Tutorial
TA	-	Teaching Aid
TM	-	Teaching Methodology
UR	-	University Result, If first semester, Enter the Engg. Cut-off Marks

DR. SURESH K. M.  
 DR. SURESH K. M., M.E., Ph.D., M.B.A., M.I.S.T.E., F.I.E.,

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# IDHAYA ENGINEERING COLLEGE FOR WOMEN

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E-mail: idhaya@iecw.edu.in

Tel/ Fax: 04151 - 258325, 258326



## ATTENDANCE & ASSESSMENT RECORD

### PRACTICAL COURSES

Name of the Faculty : V. Devi Priya

Designation : Assistant Professor

Dept. of the Faculty : Electrical & Electronics Engineering

Subject code/Name : EE8661 Power Electronics & Drives Lab

Branch : Electrical & Electronics Engineering

Year / Semester : III / VI

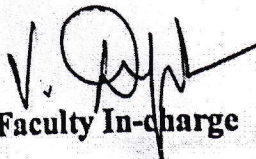
Batch : 2017 - 2021

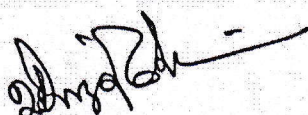
*Heeni*  
Dr. R. GURUMANI, M.E., Ph.D., M.B.A., M.ISTE., F.I.E.,  
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CHINNASALEM-606 201. KALLAKURICHY

## LABORATORY PRACTICAL - CYCLE PLAN

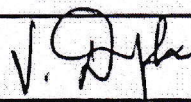
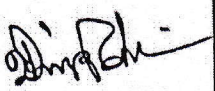

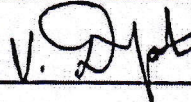
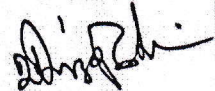

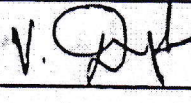
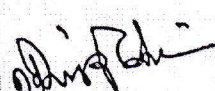

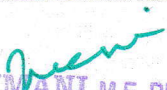
Cycle	No. Of Experiments	Star Date	Finish Date
I	04	12.12.2019	02.01.2020
II	05	09.01.2020	06.02.2020
III	05	13.02.2020	12.03.2020
Study Exp.	02	19.03.2020	19.03.2020

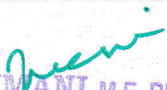
  
 Faculty In-charge

  
 H.O.D

  
 PRINCIPAL

## LABORATORY PRACTICAL - CYCLE PLAN

Cycle	No. Of Experiments	Batch	Completion Date	Sign. of the Faculty	Sign. of the H.O.D	Sign. of the Principal
I	04	I	02.01.20			
		II				
II	05	I	06.02.20			
		II				
III	05	I	12.03.20			
		II				
Study Exp.	02	I				
		II				

  
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RECORD OF LABORATORY WORK

BATCH - I

CYCLE - I

Batch	Date	Period	Experiments	Fac. Inbatch
T	12.12.2019	6,7,8	To ring up and verify the operation of SCR firing circuit using UJT	*
T	12.12.19 19.12.19	8	To determine the VI characteristics of SCR and to study the operation of 1 $\phi$ single-pulse converter using SCR	*
T	19.12.19	6,7,8	To determine the characteristics of TRIAC	*
T	02.01.20	6,7,8	To determine the characteristics of MOSFET and TRIAC.	*
			<i>Signature</i>	

RECORD OF LABORATORY WORK

BATCH - I

CYCLE - II

Batch	Date	Period	Experiments	Faculty Initials
T	02.01.20	6,7,8	To construct 1 $\phi$ half controlled converter and plot its output response	*
T	09.01.20	6,7,8	To construct 1 $\phi$ fully controlled converter and plot its output response	*
T	30.01.20	6,7,8	To construct step up & step down based MOSFET Choppers and to draw its output response	*
T	30.01.20	8	To obtain single phase output waveforms for IGBT based PWM Inverter	*
T	06.02.20	6,7	To obtain 3 $\phi$ three phase output waveforms for IGBT based PWM Inverter	*
			<i>Signature</i>	

*new*  
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**IDHAYA ENGG. COLLEGE FOR WOMEN**  
**CHINNASALEM-606 201, KALLAKURICHI DT.**



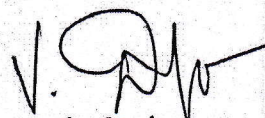
**IDHAYA ENGINEERING COLLEGE FOR WOMEN**  
CHINNASALEM - 606 201.

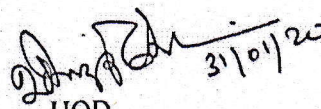
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

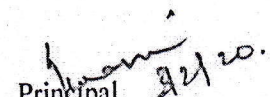
Name of the Lab: **EE8611/ POWER ELECTRONICS AND DRIVES LAB**  
Faculty Incharge: Ms.V.Devi Priya  
Year/Sem : III yr/ VI sem


Days: Thursday  
Hours: 6,7, 8

Exp .no	Name of the Experiment	Date	Remarks
		Batch I	
<b>CYCLE-I</b>			
1.	To rig up and verify the operation of the SCR firing circuit using UJT.	12.12.2019	Completed
2.	To determine VI characteristics of SCR and to study the operation of Single Phase Single Pulse Converter using SCR.	12.12.2019	Completed
3.	To determine the characteristics of TRIAC.	19.12.2019	Completed
4.	To determine the characteristics of MOSFET & IGBT	02.01.2020	Completed
<b>CYCLE-II</b>			
5.	To construct a single phase half controlled Converter and plot its output response.	02.01.2020	Completed
6.	To construct a single phase fully controlled Converter and plot its output response.	09.01.2020	Completed
7.	To construct Step down & Step up MOSFET based choppers and to draw its output response.	23.01.2020	Completed
8.	To obtain Single phase output wave forms for IGBT based PWM inverter	30.01.2020	Completed
9.	To obtain three phase output wave forms for IGBT based PWM inverter	06.02.2020	Completed
<b>CYCLE-III</b>			
10.	To study the 1-phase AC voltage control using TRIAC.	13.02.2020	Completed
11.	To construct switched mode power converter and to draw its output response.	20.02.2020	Completed
12.	To simulate the 1 $\emptyset$ fully Controlled rectifier circuit with R & RL load and obtain the corresponding waveforms using MATLAB/SIMULINK.	27.02.2020	Completed
13.	To simulate the 3 $\emptyset$ fully Controlled rectifier circuit with R & RL load and obtain the corresponding waveforms using MATLAB/SIMULINK.	05.03.2020	Completed
14.	To simulate the 1 $\emptyset$ AC voltage regulator circuit and obtain the suitable waveforms using MATLAB/SIMULINK	12.03.2020	Completed
15.	To study the Characteristics of GTO and IGCT	19.03.2020	Completed
16.	To study the Characteristics of PMSM motor	19.03.2020	Completed

  
Faculty In charge

  
HOD

  
Principal

  
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