



SSM COLLEGE OF ENGINEERING

(Approved by AICTE, Affiliated To Anna University)

Recognized by UGC Under Section 2 (f) of 12 (B)

NH-544, Salem Main Road, Komarapalayam, Namakkal (Dist), Tamil Nadu, India

www.ssmce.ac.in, 9894026708

2.5.1-Mechanism of Internal and external Assessment Process

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SSM COLLEGE OF ENGINEERING, KOMARAPALAYAM-638183
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
DEPARTMENT PLAN FOR 2022-2023 EVEN SEMESTER
 College working days for Even semester of academic year 2022-2023

CWD	Day	Date	Academic event	CWD	Day	Date	Academic event
1	Mon	06.02.2023	Reopening day	53	Fri	07.04.2023	Seminar on "ThyBolt to Mission Satellite Launch"
2	Tue	07.02.2023			Sat	08.04.2023	Holiday
3	Wed	08.02.2023			Sun	09.04.2023	Holiday
4	Thu	09.02.2023		54	Mon	10.04.2023	Second Internal assessment (1& 1/2 units) VI Sem
5	Fri	10.02.2023		55	Tue	11.04.2023	
6	Sat	11.02.2023		56	Wed	12.04.2023	
	Sun	12.02.2023	Holiday	57	Thu	13.04.2023	
7	Mon	13.02.2023			Fri	14.04.2023	Tamil New Year holiday
8	Tue	14.02.2023			Sat	15.04.2023	Holiday
9	Wed	15.02.2023			Sun	16.04.2023	Holiday
10	Thu	16.02.2023		58	Mon	17.04.2023	
11	Fri	17.02.2023		59	Tue	18.04.2023	Web portal entry period(AE -3 & IA-2) for VI Sem & VIII Sem starts
12	Sat	18.02.2023		60	Wed	19.04.2023	
	Sun	19.02.2023	Holiday	61	Thu	20.04.2023	
13	Mon	20.02.2023		62	Fri	21.04.2023	
14	Tue	21.02.2023		63	Sat	22.04.2023	Stem Workshop
15	Wed	22.02.2023			Sun	23.04.2023	Holiday
16	Thu	23.02.2023		64	Mon	24.04.2023	Second Internal assessment (2& 1/2 units) IV Sem
17	Fri	24.02.2023		65	Tue	25.04.2023	Second Internal assessment (2& 1/2 units) IV Sem , Web portal entry period(AE -3 & IA-2) for VI Sem & VIII Sem ends
18	Sat	25.02.2023		66	Wed	26.04.2023	Second Internal assessment (2& 1/2 units) IV Sem
	Sun	26.02.2023	Holiday	67	Thu	27.04.2023	Second Internal assessment (2& 1/2 units) IV Sem
19	Mon	27.02.2023		68	Fri	28.04.2023	Second Internal assessment (2& 1/2 units) IV Sem
20	Tue	28.02.2023		69	Sat	29.04.2023	Second Internal assessment (2& 1/2 units) IV Sem
21	Wed	01.03.2023			Sun	30.04.2023	Holiday
22	Thu	02.03.2023			Mon	01.05.2023	Holiday
23	Fri	03.03.2023		70	Tue	02.05.2023	Third Internal assessment (1& 1/2 units) VI Sem & VIII Sem
24	Sat	04.03.2023		71	Wed	03.05.2023	Third Internal assessment (1& 1/2 units) VI Sem & VIII Sem
	Sun	05.03.2023	Value Added Course on "Arduino, UNO"	72	Thu	04.05.2023	Third Internal assessment (1& 1/2 units) VI Sem
25	Mon	06.03.2023		73	Fri	05.05.2023	Third Internal assessment (1& 1/2 units) VI Sem
26	Tue	07.03.2023		74	Sat	06.05.2023	Third Internal assessment (1& 1/2 units) VI Sem
27	Wed	08.03.2023			Sun	07.05.2023	Holiday
28	Thu	09.03.2023		75	Mon	08.05.2023	Model Theory Exam- VI Sem & VIII Sem , Second Internal assessment (2& 1/2 units) IV Sem
29	Fri	10.03.2023		76	Tue	09.05.2023	Model Theory Exam- VI Sem & VIII Sem , Second Internal assessment (2& 1/2 units) IV Sem
30	Sat	11.03.2023		77	Wed	10.05.2023	Model Theory Exam- VI Sem , Second Internal assessment (2& 1/2 units) IV Sem
	Sun	12.03.2023	Value Added Course on "Arduino, UNO"	78	Thu	11.05.2023	Model Theory Exam- VI Sem , Second Internal assessment (2& 1/2 units) IV Sem
31	Mon	13.03.2023	First Internal assessment (2 1/2units)-IV Sem, First Internal assessment (2 units)-VI Sem & VIII Sem	79	Fri	12.05.2023	Model Theory Exam- VI Sem , Second Internal assessment (2& 1/2 units) IV Sem Web portal entry period(AE -4 & IA-3) for VI Sem & VIII Sem starts, Web portal entry period(AE -2& IA-2) for IV Sem starts Last Working Day for VIII Sem students
32	Tue	14.03.2023	First Internal assessment (2 1/2units) - IV Sem , First Internal assessment (2 units)- VI Sem & VIII Sem	80	Sat	13.05.2023	Second Internal assessment (2& 1/2 units) IV Sem
33	Wed	15.03.2023	First Internal assessment (2 1/2units) - IV Sem First Internal assessment (2 units)- VI Sem , Web portal entry period(AE -1) for VI Sem & VIII Sem starts		Sun	14.05.2023	Holiday
34	Thu	16.03.2023	First Internal assessment (2 1/2units) - IV Sem First Internal assessment (2 units)- VI Sem	81	Mon	15.05.2023	University Practical Exams starts for final year students Web portal entry period(AE -4 & IA-3) for VI Sem & VIII Sem ends, Web portal entry period(AE -2& IA-2) for IV Sem ends
35	Fri	17.03.2023	First Internal assessment (2 1/2units) - IV Sem First Internal assessment (2 units)- VI Sem	82	Tue	16.05.2023	
36	Sat	18.03.2023	First Internal assessment (2 1/2units) - IV Sem	83	Wed	17.05.2023	
	Sun	19.03.2023	Value Added Course on "Arduino, UNO"	84	Thu	18.05.2023	
37	Mon	20.03.2023		85	Fri	19.05.2023	
38	Tue	21.03.2023	Web portal entry period(AE -1) for VI Sem & VIII Sem ends, Web portal entry period(AE -2 & IA-1) for VI Sem & VIII Sem starts, Web portal entry period(AE -1 & IA-1) for IV Sem starts		Sat	20.05.2023	Holiday
39	Wed	22.03.2023			Sun	21.05.2023	Holiday
40	Thu	23.03.2023	Ugadi Holiday	86	Mon	22.05.2023	
41	Fri	24.03.2023		87	Tue	23.05.2023	
42	Sat	25.03.2023		88	Wed	24.05.2023	Last Working Day for IV Sem and VI Sem students
	Sun	26.03.2023	Value Added Course on "Arduino, UNO"		Thu	25.05.2023	
43	Mon	27.03.2023			Fri	26.05.2023	University Practical Exams starts for IV Sem & VI Sem students, Commencement of University Theory Exams for VIII Sem students
44	Tue	28.03.2023	Web portal entry period(AE -2 & IA-1) for VI Sem & VIII Sem ends, Web portal entry period(AE -1 & IA-1) for IV Sem ends		Sat	27.05.2023	Holiday
45	Wed	29.03.2023			Sun	28.05.2023	Holiday
46	Thu	30.03.2023			Mon	29.05.2023	
47	Fri	31.03.2023			Tue	30.05.2023	
48	Sat	01.04.2023	Second Internal assessment (1& 1/2 units) VI Sem & VIII Sem		Wed	31.05.2023	
	Sun	02.04.2023	Value Added Course on "Arduino, UNO"		Thurs	01.06.2023	
49	Mon	03.04.2023	Second Internal assessment (1& 1/2 units) VI Sem & VIII Sem		Fri	02.06.2023	
50	Tue	04.04.2023	Second Internal assessment (1& 1/2 units) VI Sem & VIII Sem		Sat	03.06.2023	
51	Wed	05.04.2023	Second Internal assessment (1& 1/2 units) VI Sem		Sun	04.06.2023	
52	Thu	06.04.2023	Second Internal assessment (1& 1/2 units) VI Sem		Mon	05.06.2023	Commencement of University Theory Exams for IV Sem & VI Sem students

HOD

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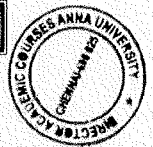
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ACADEMIC SCHEDULE (Even Semester) – April/May 2023 - IV, VI & VIII SEMESTER

Date: 30.03.2023

CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY : CHENNAI – 600 025

REVISED



ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES February 2023 – June 2023 (Even Semester – Except Semester II) UG / PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised*	Existing	Revised*
1	B.E. / B.Tech. (Full-Time)	IV, VI	06.02.2023	12.05.2023	24.05.2023***	15.05.2023	26.05.2023	26.05.2023	05.06.2023
2	B.E. / B.Tech. (Full-Time)	VIII							
3	B.Arch. (Full-Time)	IV, VI, VIII, X							
4	B.E. / B.Tech. (Part-Time)	IV, VI	06.02.2023	12.05.2023**	-	15.05.2023	-	26.05.2023	-
5	M.B.A. (Full-Time & Part-Time)	IV							
6	M.B.A. (5 Yrs-Integrated)	IV, VI, VIII, X							

RE - OPENING DAY FOR THE NEXT SEMESTER: 07.08.2023 (Monday)

* To provide additional classes for Skill Based Courses.

NOTE:

- The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
- 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 Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	11.02.2023	Monday
2.	18.02.2023	Tuesday
3.	25.02.2023	Wednesday
4.	04.03.2023	Thursday
5.	11.03.2023	Friday
6.	18.03.2023	Monday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	25.03.2023	Tuesday
8.	01.04.2023	Wednesday
9.	29.04.2023	Thursday
10.	06.05.2023	Friday
11.	13.05.2023	Monday***
12.	20.05.2023	Tuesday***

Handwritten signature and date: 30/3/2023

**DIRECTOR
ACADEMIC COURSES**

DAC - SF



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ATTENDANCE AND INTERNAL MARKS ENTRY IN ANNA UNIVERSITY COE WEB PORTAL (Even Semester) – April/May 2023 VI & VIII SEMESTER

ANNA UNIVERSITY:: CHENNAI 600 025
OFFICE OF THE CONTROLLER OF EXAMINATION

February 2023 – May 2023 - (SEMESTER – VI, VIII, X)

FOR ALL UG/PG(MBA-Integrated) PROGRAMMES - R 2017

Report No	Report Period	Test Period	Report Entry Period
	06-02-2023 – 24-02-2023		15-03-2023 – 21-03-2023
	25-02-2023 – 20-03-2023	14-03-2023 – 20-03-2023	21-03-2023 – 28-03-2023
	21-03-2023 – 17-04-2023	11-04-2023 – 17-04-2023	18-04-2023 – 25-04-2023
	18-04-2023 – 12-05-2023	08-05-2023 – 12-05-2023	12-05-2023 – 15-05-2023

Saturdays may be included as working days to make good the Shortages, if any.

13/03/2023

P. Subashchandra Bose
13/03/2023
CONTROLLER OF EXAMINATIONS



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ATTENDANCE AND INTERNAL MARKS ENTRY
IN ANNA UNIVERSITY COE WEB PORTAL (Even Semester) – April/May 2023
IV SEMESTER

ANNA UNIVERSITY:: CHENNAI 600 025

OFFICE OF THE CONTROLLER OF EXAMINATION

February 2023 – May 2023 - (SEMESTER - IV) – R-2021

FOR ALL UG /PG(MBA) PROGRAMMES

Report No	Report Period	Test Period	Report Entry Period
I	06-02-2023 – 21-03-2023	15-03-2023 – 21-03-2023	21-03-2023 – 28-03-2023
II	23-03-2023 – 12-05-2023	08-05-2023 -- 12-05-2023	12-05-2023 -- 15-05-2023

Saturdays may be included as working days to make good the Shortages, if any.

13/03/2023

13/03/23

P. Senthil
13.03.2023
CONTROLLER OF EXAMINATIONS



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ACADEMIC SCHEDULE (Even Semester) – April/May 2023 - II SEMESTER

Date: 04.05.2023

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI - 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

May 2023 – August 2023 (Even Semester)

UG (FT/PT) & PG (FT) Degree 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)	II	10.05.2023	07.08.2023**	09.08.2023	21.08.2023
2	B.Arch (Full-Time)	II				
3	B.E / B.Tech (Part-Time)	II				
4	M.E / M. Tech / M. Arch (FT)	IV				

RE - OPENING DAY FOR THE NEXT SEMESTER: 11.09.2023 (Monday)

NOTE:

- The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
- 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 Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed	Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	13.05.2023	Friday	7	24.06.2023	Monday
2	20.05.2023	Monday	8	01.07.2023	Tuesday
3	27.05.2023	Tuesday	9	08.07.2023	Wednesday
4	03.06.2023	Wednesday	10	15.07.2023	Thursday
5	10.06.2023	Thursday	11	22.07.2023	Friday
6	17.06.2023	Friday	12	05.08.2023	Monday

Wjg 04/05/2023
DIRECTOR
ACADEMIC COURSES

DAC -SB



Anna University, Chennai
Office of the Controller of Examinations
Abstract of Elective List - UG

College Code / Name : 7323 - S.S.M. COLLEGE OF ENGINEERING

Branch Code / Name : 106 - B.E. Electronics and Communication Engineering

Semester : 08


University : AUC

Regulation : 2017

Elective Number : 1

Subject : GE8076 - Professional Ethics in Engineering

S.No	Register Number/Student code	Name of the Student
1	732319106001	CHANDRU K
2	732319106002	CHANDRU S
3	732319106003	DHANALAKSHMI S
4	732319106004	EZHILARASI S
5	732319106005	JEYALAKSHMI P
6	732319106006	KAVITHA M
7	732319106007	KAVIYA DHARSHINI P
8	732319106008	KAVIYANJALI P
9	732319106009	MANIKANDAN R
10	732319106010	MANIMEKALAI R
11	732319106011	POOVARASAN R
12	732319106012	PREETHIYA S
13	732319106013	RAJAATHI S
14	732319106014	RAVICHANDRAN A
15	732319106015	SAKTHIVEL P
16	732319106016	SANGEETHA A
17	732319106017	SATHYA P
18	732319106018	SNEHA K
19	732319106019	THENMOZHI S
20	732319106020	VASANTH D
21	732319106021	VISHNU S
22	732319106023	YUVARAJ M
23	732319106024	YUVASANKARI R
24	732319106301	RAMYA R
25	732319106302	UJWAL K
26	732319106303	KARTHICK E
27	732319106401	DINESH T


Signature of the Principal with seal
Principal
SSM College of Engineering
Komarapalayam - 638183.

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SSM COLLEGE OF ENGINEERING

(APPROVED BY AICTE, AFFILIATED TO ANNA UNIVERSITY)

Komarapalayam, Namakkal (D.t), Tamil Nadu, India

Examination

Anna University, Chennai
Office of the Controller of Examinations
Pre- Examination Monitoring System

Institution login

Institution Code:

Password:

Enter the Captcha
K44T40

[Forgot Password](#)

Student login

Register Number

Date of Birth
[DD-MM-YYYY]

Enter the Captcha

Attention! All Institutions [View All]

*Distance Education- Feb-March 2020 Examinations - Notification - Practical / Project Viva-Voce Examinations Scheduled on 20-03-2020, 21-03-2020 and 22-03-2020 are postponed-[Click Here](#) 🌟

***Important Notification**



SSM COLLEGE OF ENGINEERING


(APPROVED BY AICTE, AFFILIATED TO ANNA UNIVERSITY)

Komarapalayam, Namakkal (D.t), Tamil Nadu, India

Student Profile

Anna University - COE, Chennai X

https://coe1.annauniv.edu/home/students_corner.php



Anna University, Chennai

Office of the Controller of Examinations
Pre- Examination Monitoring System

Welcome AISHWARYA P !!

[Log out](#)

PROFILE EXAM SCHEDULE REG.PREVIEW ASSESSMENT EXAM RESULTS ELECTIVE GRIEVANCE

Student Profile

Register Number	732316212001
Name	AISHWARYA P
Institution	7323 - S.S.M. COLLEGE OF ENGINEERING
Branch	212-B.Tech. Textile Technology

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Exam Registration

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We Create Success

3!

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SSM COLLEGE OF ENGINEERING

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Komarapalayam, Namakkal (D.t), Tamil Nadu, India



Important Note

Kind Attention to the Institution: Web portal is opened for Review Total Fees Abstract.

Kind Attention to the Institutions: As per the direction of Government of Tamil Nadu, all the affiliated colleges shall be closed up to 31.03.2020 as a precautionary measure for the prevention of corona virus. [Click Here](#)

Web Portal is Opened for Registration of April / May 2020 Examinations. Institutions are instructed to take a Registration Preview first and Give it to the concerned student for verifying subjects to be registered. Select April / May 2020 (R-2017) Examination Link for R-2017 Candidates (Kindly go through the Regulations - R2017). Last Date for completing the Registration Process is 23-03-2020. Hence, all Principals of the affiliated Colleges are requested to complete the registration process on or before the last date specified above and to pay the Examination fees in time.

Kind Attention to the Institutions: - R-2017 - UG - Registration of Online Course in the Web Portal - Instruction Issued Reg - [Click Here](#)

Examination Report



SSM COLLEGE OF ENGINEERING

(APPROVED BY AICTE, AFFILIATED TO ANNA UNIVERSITY)

Komarapalayam, Namakkal (D.t), Tamil Nadu, India



Office of the Controller of Examinations Pre - Examination Monitoring System

Last Login Time : 21-03-2020 10:27:50 AM

Home Student Detail ▾ Faculty Detail ▾ Examination ▾ **Reports** Admin Utility ▾ Entry Status ▾ Help ▾ Logout

No Message Found!!

Message to Institution

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Registered Students
Online Slot Registered Students
Online Slot Registered Students with Mark
Total Fee

- Student Report
- Faculty Report
- Hall Superintendent
- Examination Report
- Basic Master Tables part - I
- Basic Master Tables part - II
- Faculty Master Tables
- Registration
- Exam Absentees
- Proforma 7
- Proforma 11
- Report for Despatch Of Answer Paper Packets

mic Year [for Student Profile only]....

Not Approval List

Student Assessment

Elective Report

Value Added selection Report

Internal Marks

Session Arrangement Report

Registration

Exam Absentees

Proforma 7

Proforma 11

Report for Despatch Of Answer Paper Packets

Content owned Consolidated Result City, Chennai

Abstract of Registration & Fee Collected

Perfection, Progress & Prosperity

We Create Success

3'

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SSM COLLEGE OF ENGINEERING

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Komarapalayam, Namakkal (D.t), Tamil Nadu, India



ANNA UNIVERSITY :: CHENNAI - 600 025 OFFICE OF THE CONTROLLER OF EXAMINATIONS

Abstract of Registration & Fees Collected

NOV. / DEC. EXAMINATION, 2018 - EXAMINATIONS

Inst Code & Name : 7323 - S.S.M. COLLEGE OF ENGINEERING

Branch Code / Name : 103 : B.E. Civil Engineering University : AUC

Register No.	Name of the Student	No. of Subjects	Fees for (PC, CGS & Degree Certificate)	Fees in Rs.	Total Fee in Rs.
732316103002	ASIKALI M	19	0.00	2850.00	2850.00
732316103003	ASVIN SAJ	22	0.00	3300.00	3300.00
732316103004	BALASUBRAMANIAN K	12	0.00	1800.00	1800.00
732316103005	BHARATHI J	11	0.00	1650.00	1650.00
732316103006	BOOPATHIRAJA S	18	0.00	2700.00	2700.00
732316103007	DINESHKUMAR M	21	0.00	3150.00	3150.00
732316103008	GAJAPATHI R	32	0.00	4800.00	4800.00
732316103009	GOWVEENTHIRAN K	28	0.00	4200.00	4200.00
732316103010	GUKAN M	30	0.00	4500.00	4500.00
732316103011	JISHNU PREM K K	23	0.00	3450.00	3450.00
732316103012	MATHEWS JOSE	25	0.00	3750.00	3750.00
732316103014	MOHANRAJ P	25	0.00	3750.00	3750.00
732316103015	MONIKKA S	23	0.00	3450.00	3450.00
732316103016	PAVITHRAN V G	34	0.00	5100.00	5100.00
732316103017	RASHIKA S U	11	0.00	1650.00	1650.00
732316103018	SANDHIYA M	16	0.00	2400.00	2400.00
732316103020	SASITHARAN G	21	0.00	3150.00	3150.00
732316103021	SISIRA P P	9	0.00	1350.00	1350.00
732316103022	VIDHYA S	13	0.00	1950.00	1950.00
732316103023	VJAYANANTH G	21	0.00	3150.00	3150.00
732316103024	VISHNU RAM M	23	0.00	3450.00	3450.00

Attendance & Internal Marks Entry

Perfection, Progress & Prosperity

We Create Success

31

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RATHINAM RATHINAM
SUBASHCHANDRA
BOSE
HANDRAB
OSE
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Date: 2024.04.10
18:04:27+05'30'



SSM COLLEGE OF ENGINEERING

Approved by AICTE, Affiliated to Anna University

Recognized by UGC Under Section 2 (f) of 12 (B)

NH-544, Salem Main Road, Komarapalayam: 638 183, Namakkal (Dist.), Tamil Nadu, India.

www.ssmce.ac.in, ☎ 9894026708.

SSM COLLEGE OF ENGINEERING, KOMARAPALAYAM -638 183 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FIRST INTERNAL ASSESSMENT - MARCH '2023

FN: 10.00 AM to 11.30 AM

SECOND YEAR - IV SEMESTER

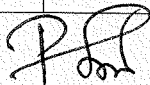
SI NO	SUBJECT CODE	SUBJECT NAME	DATE & SESSION
1	EC3452	Electromagnetic fields	13.03.23 & FN
2	EC3401	Networks and security	14.03.23 & FN
3	EC3492	Digital signal processing	16.03.23 & FN
4	EC3451	Linear Integrated Circuits	17.03.23 & FN
5	EC3491	Communication Systems	20.03.23 & FN
6	GE3451	Environmental Science and Sustainability	21.03.23 & FN

THIRD YEAR - VI SEMESTER

SI NO	SUBJECT CODE	SUBJECT NAME	DATE & SESSION
1	EC8095	VLSI Design	13.03.23 & FN
2	EC8652	Wireless Communication	14.03.23 & FN
3	EC8651	Transmission Lines and RF Design	16.03.23 & FN
4	MG8591	Principles of Management	17.03.23 & FN
5	EC8691	Microprocessors and Microcontrollers	20.03.23 & FN

FINAL YEAR - VIII SEMESTER

SI NO	SUBJECT CODE	SUBJECT NAME	DATE & SESSION
1	EC8094	Satellite Communication	13.03.23 & FN
2	GE8076	Professional Ethics in Engineering	14.03.23 & FN


HOD


PRINCIPAL



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NH-544, Salem Main Road, Komarapalayam: 638 183, Namakkal (Dist.), Tamil Nadu, India.

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To

- 1.All students
- 2.Student's Notice Board

Copy To

- 1.Course Coordinators
- 2.Exam Cell Coordinators
- 3.HODs

S.No	Course Coordinators	Subject	Signature
1	P.Loganath	Electromagnetic fields	
2	K. Balaji	Networks and security	
3	M.Chamundeeswari	Digital signal processing	
4	M.Sri Sowmiya	Linear Integrated Circuits	
5	R.Rajkumar	Communication Systems	
6	P.Senthil Kumar	Environmental Science and Sustainability	
7	G.Rekha	VLSI Design	
8	R.Thulasimani	Wireless Communication	
9	G.Revathi	Transmission Lines and RF Design	
10	D.K.Kawethaa Shree	Principles of Management	
11	S.Mathuram	Microprocessors and Microcontrollers	
12	J. Jagan Pradeep	Satellite Communication	
13	J.Saravanakumar	Professional Ethics in Engineering	

Register No.																			
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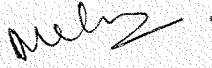
SSM COLLEGE OF ENGINEERING, KOMARAPALAYAM			
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING			
INTERNAL ASSESSMENT EXAM - I			
REGULATION - 2021			
SUBJECT CODE & NAME : EC3492- Digital Signal Processing			
YEAR/SEMESTER: II / IV	Duration : 01:30 hrs	Date: 16.03.2023	Maximum Marks : 60
Bloom's Taxonomy Knowledge level			
R- Remembering (K1)	U- Understanding (K2)	Ap-Applying (K3)	
An- Analysing (K4)	E- Evaluating (K5)	C- Creating (K6)	

COURSE OUTCOMES : On completion of the course students are expected to	
CO1	To learn discrete fourier transform, properties of DFT and its application to linear filtering
CO2	To understand the characteristics of digital filters, design digital IIR and FIR filters and apply these filters to filter undesirable signals in various frequency bands
CO3	To understand the effects of finite precision representation on digital filters
CO4	To understand the fundamental concepts of multi rate signal processing and its applications
CO5	To introduce the concepts of adaptive filters and its application to communication engineering

Part A (Answer All Questions) - (10 X 2 = 20 Marks)		CO	K	Marks
1	When the DFT X (K) of a sequence x (n) is imaginary?	CO1	K1	2
2	Write the differences between DFT and DTFT.	CO1	K1	2
3	Define twiddle factor.	CO1	K1	2
4	What is FFT? List out its Advantages?	CO1	K1	2
5	What is Zero padding? What is the purpose of it?	CO1	K1	2
6	What is meant by in place in DIT FFT and DIF FFT algorithm?	CO1	K1	2
7	Mention the Properties of Butterworth filter.	CO2	K1	2
8	State the steps to design digital IIR filter using Bilinear Transformation.	CO2	K1	2
9	Distinguish between IIR and FIR filter.	CO3	K1	2
10	List out the Properties of FIR filters.	CO3	K1	2
Part B - (2 X 13 = 26 Marks)		CO	K	Marks
11(A)	Given x (n) = n+1, and N=8, Evaluate X (K) using DIF FFT algorithm.	CO1	K4	13
OR				
11 (B)	Determine y(n) using DFT-IDFT method if the input signal x(n)={1,1,0,0} and impulse signal h(n)= cos (nπ/2) for n= 0 to 3 otherwise.	CO1	K5	13
12(A)	Determine the Direct form I&II, cascade & parallel form Y(n)= -0.1y(n-1)+0.72y(n-2)+0.7x(n)-0.252x(n-2)	CO2	K5	13
OR				
12 (B)	Design a Butterworth digital IIR low pass filter using Bilinear transformation to satisfy the following specifications: 0.8 ≤ H(ejw) ≤ 1.0 ; for 0 ≤ ω ≤ 0.2 π H(ejw) ≤ 0.2 ; for 0.6 π ≤ ω ≤ π	CO2	K6	13

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Part C - (1 X 14 = 14 marks)		CO	K	Marks
13 (A)	Design a high pass FIR filter using hanning window with a cutoff frequency of 1.2 rad/sec and M=9	CO3	K6	14
OR				
13(B)	Find the frequency response of linear phase FIR filter with symmetric impulse response and M=odd.	CO3	K2	14



SUBJECT INCHARGE



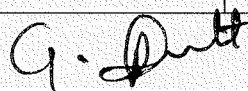
HOD

SSM COLLEGE OF ENGINEERING, KOMARAPALAYAM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

HALL NO: CONFERENCE HALL

SEATING ARRANGMENT

ROW 1	ROW 2	ROW 3	ROW 4	ROW 5
732320106001	732321106010	732320106310	732321106325	732319106021
732321106002	732319106001	732321106314	732319106013	732321106336
732320106003	732321106011	732320106313	732320106306	732319106023
732321106003	732319106002	732321106315	732319106014	732321106337
732320106004	732321106012	732320106314	732321106327	732319106024
732320106005	732319106003	732321106316	732319106015	732321106338
732321106004	732321106304	732320106315	732321106328	732319106301
732320106006	732319106004	732321106318	732319106016	732321106339
732321106005	732321106306	732319106009	732321106329	732319106302
732320106302	732319106005	732321106319	732319106017	732321106340
732321106006	732321106307	732319106010	732321106332	732319106303
732320106306	732319106006	732321106320	732319106018	732321106342
732321106007	732321106308	732319106011	732321106333	732319106401
732320106308	732319106007	732321106322	732319106019	732321106343
732321106008	732321106312	732319106012	732321106335	732320106302
732320106310	732319106008	732321106323	732319106020	732321106326
Name & Signature of Hall Superintendent				



SSM COLLEGE OF ENGINEERING KOMARAPALAYAM - 638 183.

First

INTERNAL ASSESSMENT

REGISTER NUMBER

7	3	2	3	2	1	1	0	6	0	0	6
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Name of the Candidate	P. Malavi
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College Code & Name	7 3 2 3	SSM College of Engineering
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Subject Code	EC 3492	Subject Title	Digital signal processing
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Semester	IV
Date & Session	16/03/2023 FN
No. of Pages Used	11

 Signature of the Hall Supdt. With date
P. LOHANATH Name of the Hall Supdt.

PART - A		PART - B						GRAND TOTAL (IN WORDS)
Question No.	Marks	Question No.	MARKS				Total	
			I	II	III	Total		
1	2	11	a					FIVE FOUR . 54/60 .
2	2		b	13			13	
3	2	12	a					
4	2		b	13			13	
5	2	13	a	14			14	
6	-		b					
7	-							
8	2							
9	2							
10	2							
TOTAL	14						40	GRAND TOTAL

18/3/2023 Date	M. CHAMUNDEESWARI Name of the Examiner	Meluz 18/3/2023 Signature of the Examiner
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PART - A

1. The sequence $x(n]$ is real and odd or imaginary and even then the sequence $x(k)$ is purely imaginary. ✓

2.	DFT	DTFT
	* obtained by performing sampling operation in both the time and frequency domains	* Sampling is performed only in time domain
	* Discrete Frequency Spectrum	* Continuous function of ω

3. Twiddle Factor

W_N^k is the twiddle factor. It is represented by $W_N = e^{-j2\pi/N}$. It inherits symmetry and periodicity property. ✓

4. FFT

It is an algorithm used to compute the DFT. It makes use of the symmetry and periodicity properties of twiddle factor W_N^k to effectively reduce the DFT computation time.

Advantage: FFT reduce the computation time. ✓

required to compute DFT.

5. Zero Padding:

Let the sequence $x(n)$ has a length L . If we want to find the N -Point DFT ($N > L$) of the sequence $x(n)$, we have to add $(N-L)$ zero to the sequence $x(n)$. This is known as zero padding.
Purpose:

* We can better display of the Frequency Spectrum.

* With zero padding, the DFT can be used in linear filtering.

8. 1. Find the order

2. Find the poles

3. Find analog transfer function.

Transfer function using $s \rightarrow z/T \left(\frac{1-z^{-1}}{1+z^{-1}} \right)$

4. Convert analog to Digital.

10. Properties of FIR Filter

* FIR Filter is always stable

* A realizable filter can always be obtained

* FIR Filter has a linear phase response.

PART = B

11) B) DFT - IDFT Method :

Step 1 : To Find DFT of $x(n)$ Step 2 : To Find DFT of $h(n)$ Step 3 : $Y(k) = X(k)h(k)$ Step 4 : IDFT of $Y(k)$

Given :

$$x(n) = \{1, 1, 0, 0\}$$

$$h(n) = \cos(n\pi/2) \quad n = 0 \text{ to } 3$$

$$h(0) = \cos(0\pi/2) = 1$$

$$h(1) = \cos(\pi/2) = 0$$

$$h(2) = \cos(2\pi/2) = -1$$

$$h(3) = \cos(3\pi/2) = 0$$

$$h(n) = \{1, 0, -1, 0\}$$

DFT

$$X(k) = \sum_{n=0}^{N-1} x(n) W_N^{nk}$$

$$\begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & -j & -1 & j \\ 1 & -1 & 1 & -1 \\ 1 & j & -1 & -j \end{bmatrix} \begin{bmatrix} 1 \\ 1 \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix} 1+1+0+0 = 2 \\ 1-j+0+0 = 1-j \\ 1-1+0+0 = 0 \\ 1+j+0+0 = 1+j \end{bmatrix}$$

$$X(k) = \{2, 1-j, 0, 1+j\}$$

$$\begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & -j & -1 & j \\ 1 & -1 & 1 & -1 \\ 1 & j & -1 & -j \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ -1 \\ 0 \end{bmatrix} = \begin{bmatrix} 1+0+1+0 = 0 \\ 1+0+1+0 = 2 \\ 1-0-1+0 = 0 \\ 1+0+1+0 = 2 \end{bmatrix}$$

$$h(k) = \{0, 2, 0, 2\}$$

$$\begin{aligned} y(k) &= x(k) h(k) \\ &= \{2, 1-j, 0, 1+j\} \cdot \{0, 2, 0, 2\} \\ &= \{0, 2-2j, 0, 2+2j\} \end{aligned}$$

IDFT

$$x(n) = \frac{1}{N} \sum_{k=0}^{N-1} X(k) W_N^{nk}$$

$$y^*(k) = \{0, 2+2j, 0, 2-2j\}$$

$$= \frac{1}{N} \sum_{k=0}^{N-1} X^*(k) W_N^{nk}$$

$$\begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & -j & -1 & j \\ 1 & -1 & 1 & -1 \\ 1 & j & -1 & -j \end{bmatrix} \begin{bmatrix} 0 \\ 2+2j \\ 0 \\ 2-2j \end{bmatrix} = \begin{bmatrix} 4 \\ 4 \\ -4 \\ -4 \end{bmatrix}$$

$$y(n) = \frac{1}{4} \{4, 4, -4, -4\}$$

$$y(n) = \{1, 1, -1, -1\}$$

12 b)

Given : $T = 0.1 \text{ sec}$ ✓

$$0.8 < |H(e^{j\omega})| < 1.0 ; \text{ for } 0 < \omega < 0.2\pi$$

$$|H(e^{j\omega})| \leq 0.2 ; \text{ for } 0.6\pi \leq \omega < \pi$$

Solution :

$$\Omega_p = \frac{2}{T} \tan \frac{\omega_p}{2}$$

assume $T = 1 \text{ sec}$

$$\Omega_p = 2 \tan \frac{0.2\pi}{2} = 0.6498 \checkmark$$

$$\Omega_s = 2 \tan \frac{\omega_s}{2}$$

$$= 2 \tan \frac{0.6\pi}{2} = 2.7527 \checkmark$$

(i) To determine order

$$N = \frac{1}{2} \frac{\log \left(\frac{1/A^2 - 1}{1/A_p^2 - 1} \right)}{\log \left(\Omega_s / \Omega_p \right)}$$

$$= \frac{1}{2} \frac{\log \left(\frac{1/(0.2)^2 - 1}{1/(0.8)^2 - 1} \right)}{\log \left(\frac{2.7527}{0.6498} \right)}$$

$$= \frac{1}{2} \frac{\log \left(\frac{24}{0.5625} \right)}{\log \left(\frac{2.7527}{0.6498} \right)}$$

$$= \frac{1}{2} \times \frac{1.63}{0.6269}$$

$$= 1.29$$

$$N \approx 2$$

(ii) To determine cutoff frequency ω_c

$$\omega_c = \frac{\omega_p}{\left(\frac{1}{A_p} - 1\right)^{1/2N}}$$

$$= \frac{0.6498}{\left(\frac{1}{0.8} - 1\right)^{1/2 \times 2}}$$

$$= \frac{0.6498}{(0.5625)^{1/4}}$$

$$= 0.7503 \text{ rad/sec}$$

iii) Transfer Function

For $N=2$

$$H(s) = \frac{1}{s^2 + 1.414s + 1}$$

LPF to LPF conversion

$$s \rightarrow \frac{\omega_p s}{\omega_c}$$

$$s \rightarrow \frac{s}{0.7503}$$

$$H(s) = \frac{1}{\left(\frac{s}{0.7503}\right)^2 + 1.414 \left(\frac{s}{0.7503}\right) + 1}$$

$$= \frac{(0.7503)^2}{s^2 + 1.414 \times 0.7503s + (0.7503)^2}$$

$$= \frac{0.5629}{s^2 + 1.0609s + 0.5629}$$

using bilinear transformation,

$$s = \frac{2}{T} \left(\frac{1-z^{-1}}{1+z^{-1}} \right)$$

$$H(z) = \frac{0.5629}{\left(2 \left(\frac{1-z^{-1}}{1+z^{-1}} \right) \right)^2 + 1.0609 \times 2 \left(\frac{1-z^{-1}}{1+z^{-1}} \right) + 0.5629}$$

$$= \frac{0.5629 (1+z^{-1})^2}{4(1-z^{-1})^2 + 2.1218(1-z^{-1})(1+z^{-1}) + 0.5629(1+z^{-1})^2}$$

$$= \frac{0.5629 (1+z^{-1})^2}{4(1-2z^{-1}+z^{-2}) + 2.1218 - 2.1218z^2 + 0.5629(1+2z^{-1}+z^{-2})}$$

$$= \frac{0.5629 (1+z^{-1})^2}{4-8z^{-1}+4z^{-2} + 2.1218 - 2.1218z^2 + 0.5629 + 1.1258z^{-1} + 0.5629z^{-2}}$$

$$= \frac{0.5629 (1+z^{-1})^2}{6.6847 - 6.8742z^{-1} + 2.4411z^{-2}}$$

$$H(z) = \frac{0.842 (1+z^{-1})^2}{1 - 1.0283z^{-1} + 0.3651z^{-2}}$$

PART - C

13 a)

$$T = \frac{M-1}{2} = 4, \quad \omega_c = 1.2$$

High Pass Filter specification

$$H_d(\omega) = \begin{cases} e^{j\omega T} & \text{for } \omega_c \leq |\omega| \leq \pi \\ 0 & \text{otherwise} \end{cases}$$

$$= \begin{cases} e^{-j\omega 4} & \text{for } 1.2 \leq |\omega| \leq \pi \\ 0 & \text{otherwise} \end{cases}$$

The desired impulse response of HPF.

$$h_d(n) = \begin{cases} \frac{\sin \pi(n-T) - \sin \omega_c(n-T)}{\pi(n-T)} & \text{for } n \neq T \\ 1 - \frac{\omega_c}{\pi} & \text{for } n = T \end{cases}$$

$$= \begin{cases} \frac{\sin(\pi(n-4)) - \sin(1.2(n-4))}{\pi(n-4)} & \text{for } n \neq 4 \\ 1 - \frac{1.2}{\pi} = 0.08 & n = 4 \end{cases}$$

n	$h_d(n) = \frac{\sin(\pi(n-4)) - \sin(1.2(n-4))}{\pi(n-4)}$	$W_{ham}(n) = \frac{1}{2} \left(1 - \cos \frac{2\pi n}{M-1} \right)$	$h(n) = h_d(n) W_{ham}$
0	0.0792	0	0
1	0.0469	0.1464	0.0068
2	-0.1075	0.5	-0.0537
3	-0.2966	0.8535	-0.2531
4	0.618	1	0.618
5	-0.2966	0.8535	-0.2531
6	-0.1025	0.5	-0.053
7	0.046	0.1464	0.0068
8	0.0792	0	0

NAME : P. Malavi

REG. NO : 732321106006

CLASS : BE/ECE

SUBJECT : Digital Signal Processing

ASSIGNMENT : '1'

INSTRUCTION DATE : 06/02/2023

SUBMISSION DATE : 10/02/2023

Malavi

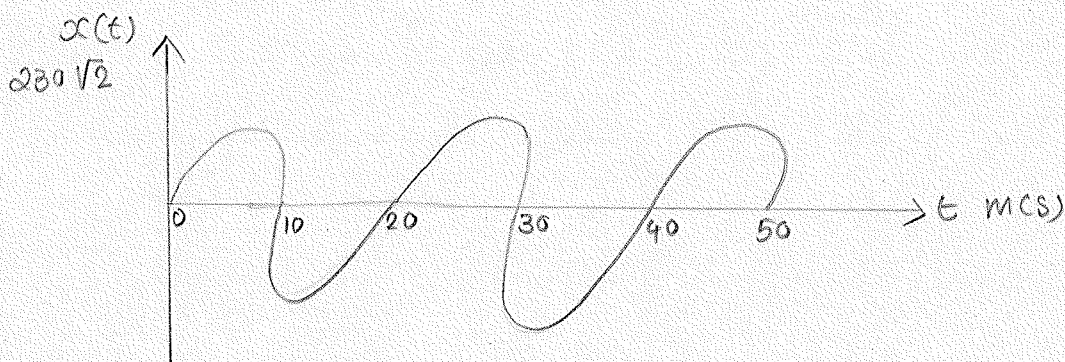
20/20

"SIGNAL"

A signal is defined as any physical quantity that varies with time, space or any other independent variable or variables

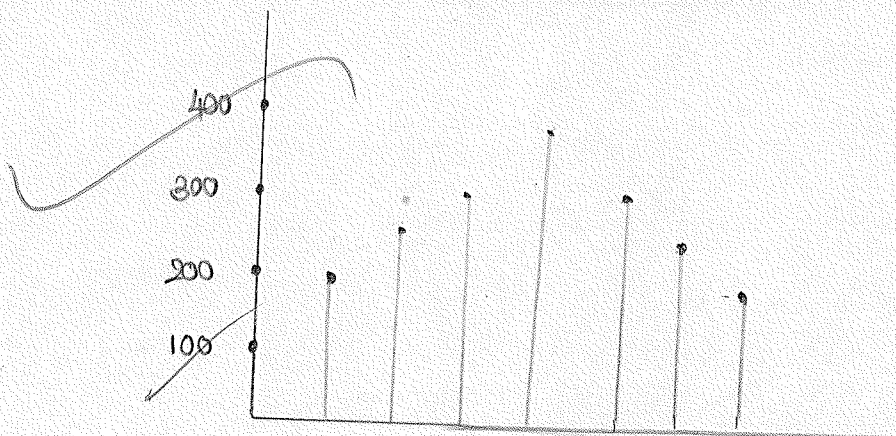
Continuous-time signals

The signals that are defined for every instant of time are known as continuous-time signals. They are denoted by $x(t)$



Discrete-time signals

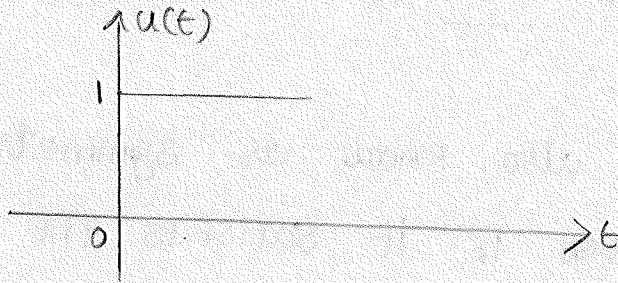
The signals that are defined at discrete instants of time are known as discrete-time signals. The discrete-time signals are continuous in amplitude and discrete in time. They are denoted by $x(n)$



2. Causal / non causal signals

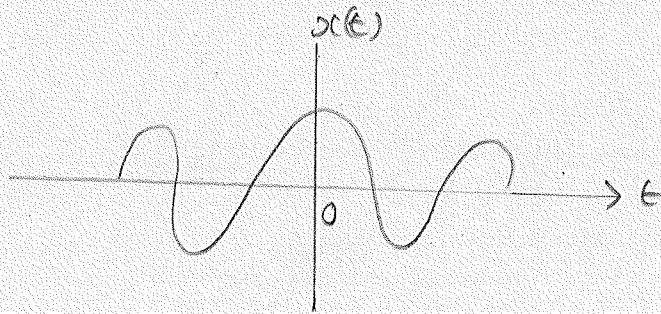
Causal signals :

A continuous time signal $x(t)$ is called causal signal $x(t) = 0$ for $t < 0$ therefore, a causal signal does not exist for negative time. The unit step signal $u(t)$ is an example of causal signal



non-causal signal

A signal which is not causal is called the non-causal. Hence, by the definition, a signal that exists for positive as well as negative time is neither causal nor anti-causal, it is non-causal signal



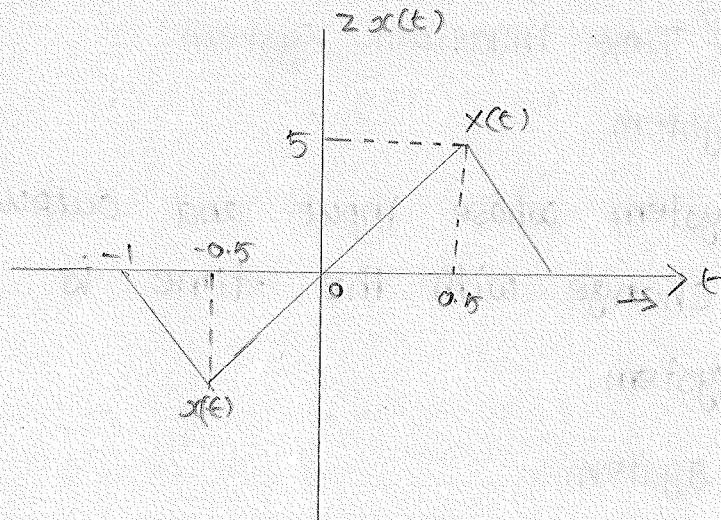
3. Energy & power signal

Energy :

A signal $x(t)$ is called a energy signal

If energy satisfy $0 < E < \infty$ for energy, $p = 0$

$$E = \lim_{T \rightarrow \infty} \int_{-T}^T |x(t)|^2 dt$$



$$x(t) = -x(-t)$$

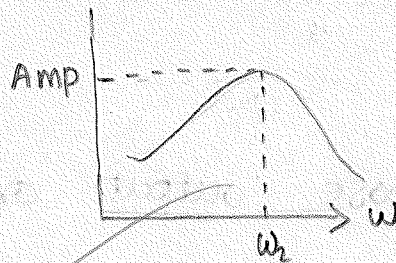
"SYSTEM":

A system is defined as an entity that manipulates one or more signals to accomplish a function, thereby yielding new signals.

1. linear/non linear system

Linear System:

The system which follows the principle of superposition is known as linear system.



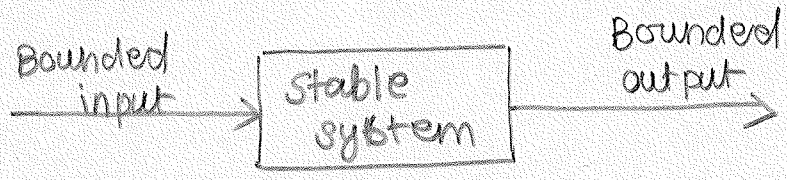
Non Linear System:

A system which do not obey SPT is called as non linear system.

4. Stable / unstable system :

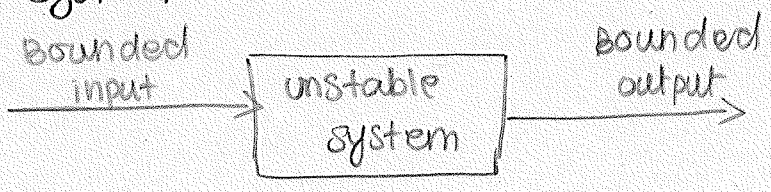
Stable System :

A system is called a BIBO (bounded input bounded output) stable or simply stable system. if and only if every bounded input produces a bounded output.



Unstable system :

If a system does not satisfy the BIBO stability condition, the system is called the unstable system.



5 Statics & dynamic system

Statics system

A system whose response or output is due to present input alone is known as static system. The static system is also called the memoryless system.

dynamic system :

A system whose response or output depends upon the past or future inputs in addition to the present input is called the dynamic system.

Name : P. Malavi

Class : BE 'ECE'

Reg. No : 732321106006

Subject : Digital Signal Processing

Assignment : '2'

Instruction Date : 16.02.2023

Submission Date : 20.02.2023

Malavi (20/20)

1) Find 8 Pt DFT of The Sequence using DIF FFT

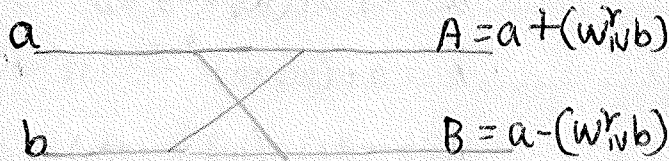
$$x(n) = \{1, 2, 3, 4, 4, 3, 2, 1\}$$

$$W_8^0 = 1$$

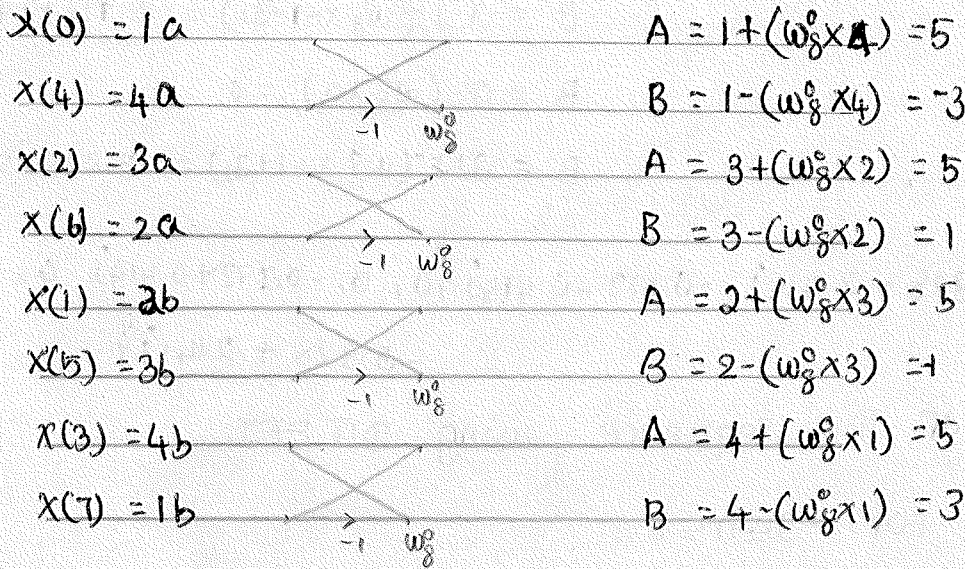
$$W_8^1 = 0.707 - j0.707$$

$$W_8^2 = -j$$

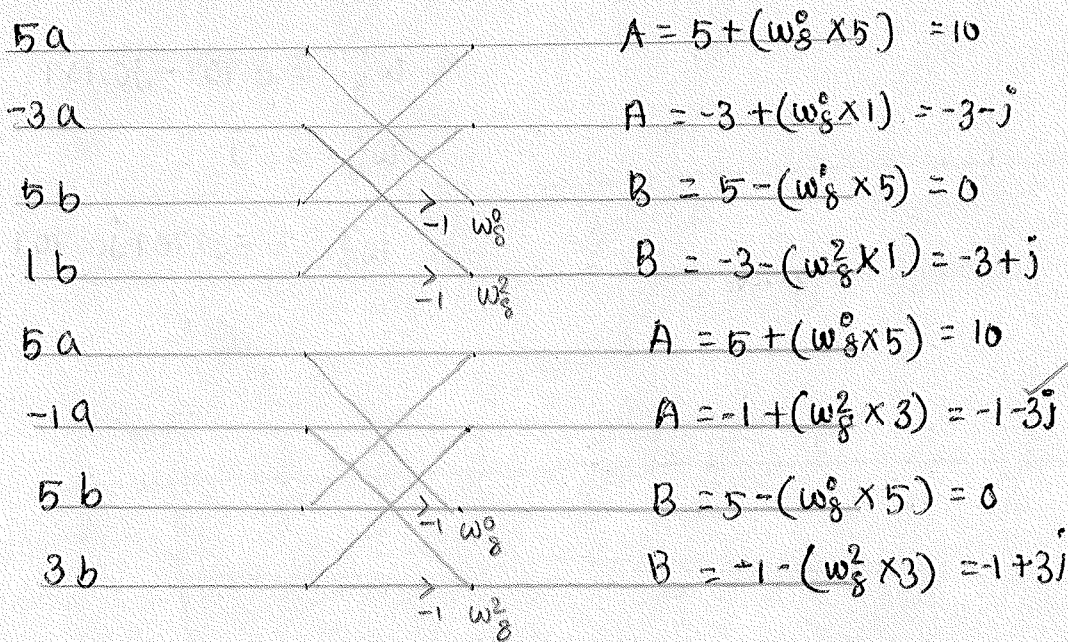
$$W_8^3 = -0.707 - j0.707$$



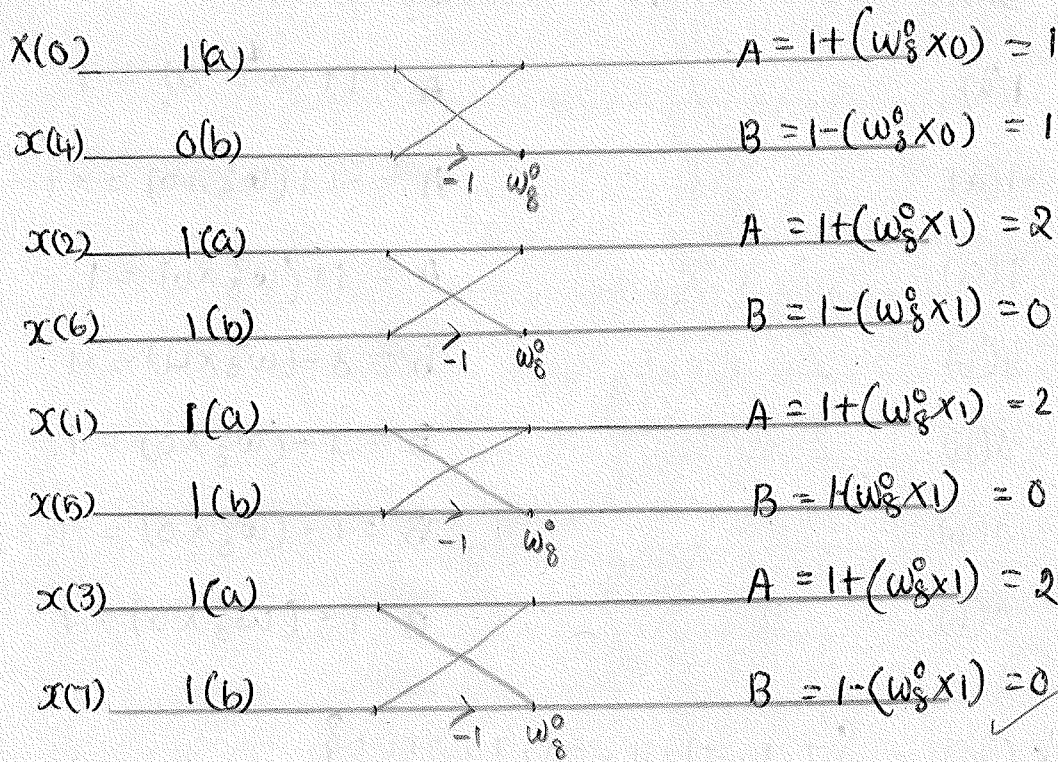
Stage 1:



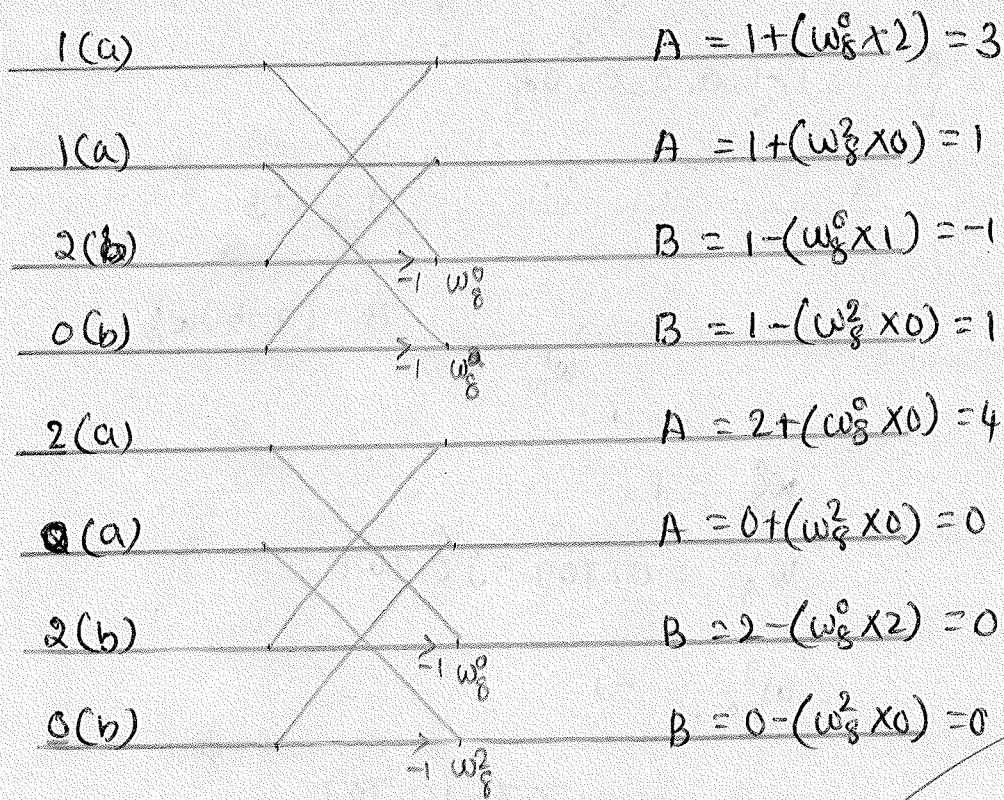
Stage 2:



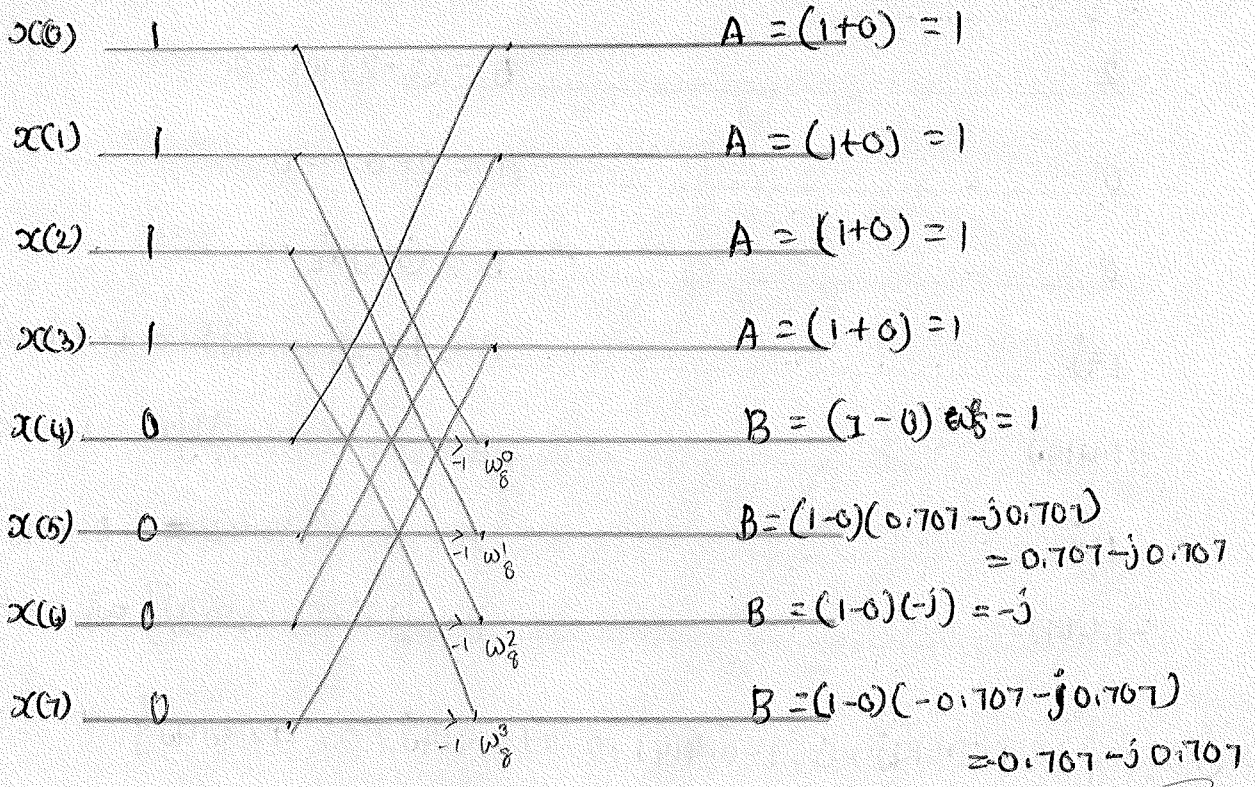
Stage 1 :



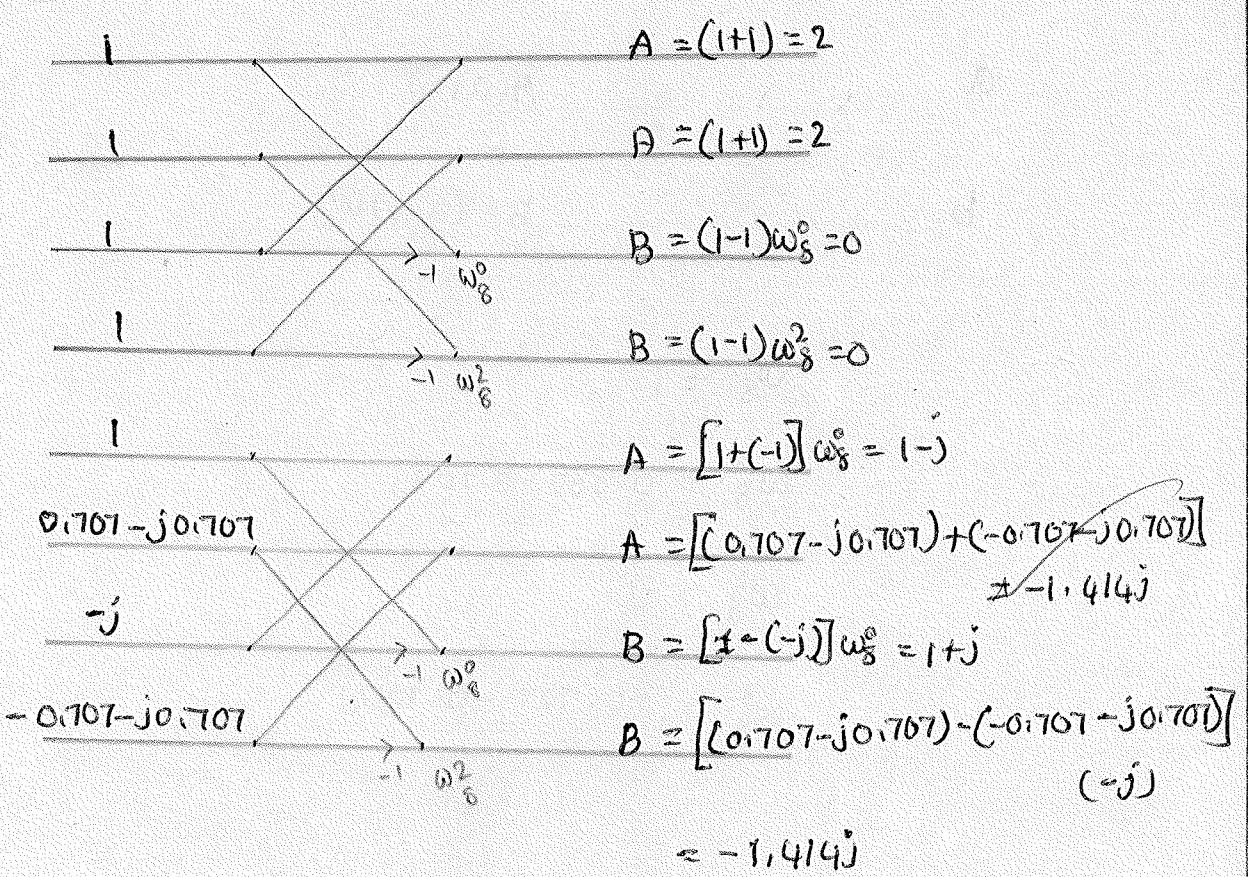
Stage 2 :



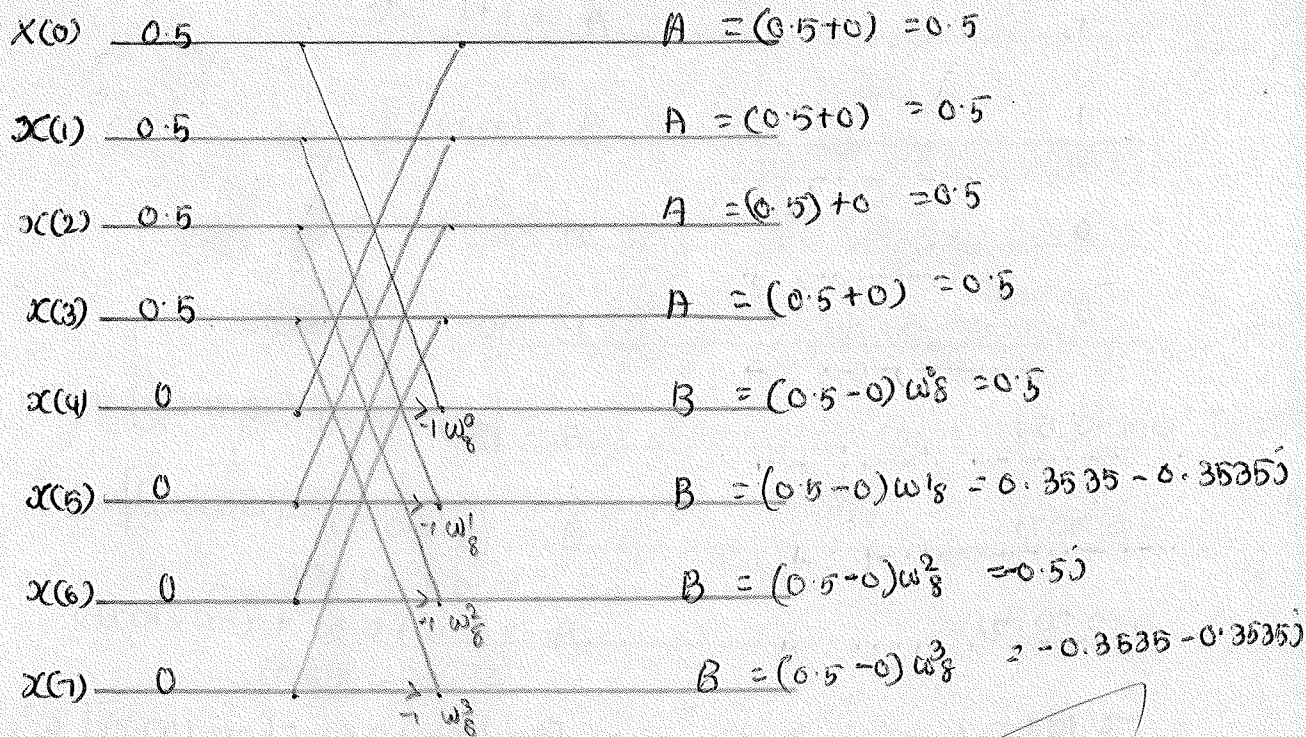
Stage 1:



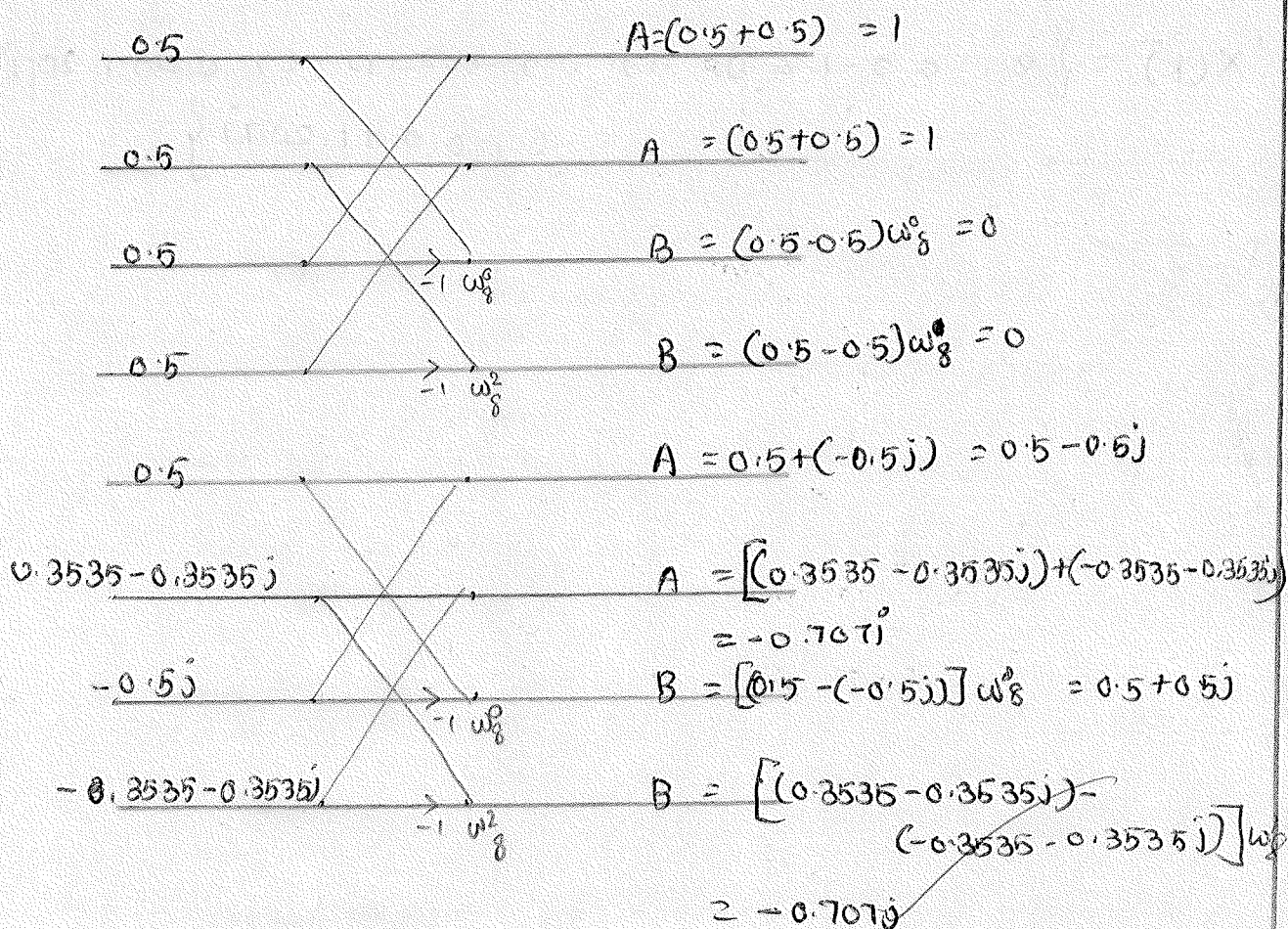
Stage 2:



Stage 1:



Stage 2:



S S M College of Engineering

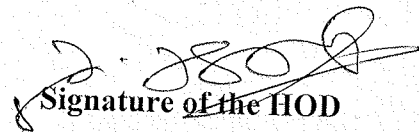
Internal Assessment Grievance Form

Student Name : P. MALAVI
Register No. : 132320106006
Year / semester : II year / IV sem
Branch : ECE
Subject Code & Name : EC8451 - Linear Integrated Circuits
Grievance : Question no 7, need to be reevaluated.

P. Malavi,
Signature of the Student

Action Taken:

no change


Signature of the HOD

College Code / Name : 7323 - S.S.M. COLLEGE OF ENGINEERING
 Branch Code / Name : 106 - B.E. Electronics and Communication Engineering
 Semester : 04 University : AUC Regulation : 2021

S.No	Register Number	Name	EC3401	EC3451	EC3452	EC3461	EC3462	EC3491	EC3492	GE3451	NCCXX1	SB8021	SB8024	SB8025	SB8026
1	732321106002	DEEPAKUMAR R	44	31	30	58	56	33	44	33					96
2	732321106003	ELAVARASAN J	44	35	30	58	55	34	45	34				99	
3	732321106004	GIRITHARAN S	48	36	35	59	59	37	48	36	85			99	
4	732321106005	MAHALAKSHMI R	46	38	32	59	59	38	48	36			99		
5	732321106006	MALAVI P	48	39	36	59	59	38	48	38			99		
6	732321106007	MALINI P	47	38	35	59	59	37	48	38			99		
7	732321106008	MUKUNDHAN AB	48	38	32	59	58	37	48	37	93			99	
8	732321106010	SHARMILI J	46	35	30	59	55	37	47	37					
9	732321106011	SUBASH B	40	28	28	51	54	32	40	29					92
10	732321106012	VIMALRAJ K	44	31	29	58	56	34	44	33					97
11	732321106304	ARUN C V	42	29	29	50	49	31	42	30					94
12	732321106306	CHANTHURU S	42	29	29	50	51	31	42	30					92
13	732321106307	DINESH KUMAR M	42	29	29	49	52	30	40	29					93
14	732321106308	DIWAKAR M	42	30	29	50	50	29	41	29					92
15	732321106312	GIRIDHARAN T	42	29	29	54	49	30	40	30					
16	732321106314	HAREESH K	42	29	29	52	54	31	41	29					
17	732321106315	JETHIN A J	42	29	29	53	52	30	42	29					
18	732321106316	KARTHI D	42	28	28	53	51	31	42	30					
19	732321106318	KOKILAVANI K	42	30	29	53	52	31	42	30					
20	732321106319	LAVANYA RAJ P	42	30	29	52	53	30	42	30					
21	732321106320	MAMATHA	41	28	29	53	52	30	41	29					
22	732321106322	MEDON ROHITH S	42	30	29	53	53	31	41	29					
23	732321106323	MOHAMMADASIF P	41	30	29	55	51	32	42	31					
24	732321106325	MOHANAKRISHNAN V	42	30	29	52	52	29	41	29					
25	732321106326	NAGARAJ BELAM	41	30	29	54	53	32	42	30					
26	732321106328	PAVITHRAN A	42	29	29	53	53	31	41	30					
27	732321106329	PRAKASH K	41	29	30	52	51	30	42	30					
28	732321106332	SAGAR D	41	30	28	50	52	29	41	29					
29	732321106333	SAKTHIVEL M	41	29	29	53	51	31	41	29					
30	732321106335	SATHEESH L	41	28	28	49	52	30	40	28					

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College Code / Name : 7323 - S.S.M. COLLEGE OF ENGINEERING
 Branch Code / Name : 106 - B.E. Electronics and Communication Engineering
 Semester : 04 University : AUC Regulation : 2021

S.No	Register Number	Name	EC3401	EC3451	EC3452	EC3461	EC3462	EC3491	EC3492	GE3451	NCCXX1	SB8021	SB8024	SB8025	SB8026
31	732321106336	SHAMIL M	41	29	29	50	50	30	41	29					
32	732321106337	SHAMILA M K	42	30	30	52	49	31	41	30					
33	732321106338	SREESHITHA P	42	30	28	54	52	32	42	30					
34	732321106339	STARAL OLIVERA	42	29	29	52	51	30	40	29					
35	732321106340	SUKANYA K	43	30	29	54	52	32	42	30					
36	732321106342	UMANANDHINI G	42	29	28	49	53	31	41	29					
37	732321106343	VAISHNAVI J	42	29	29	51	51	30	42	30					

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Inst Code & Name : 7323 - S.S.M. COLLEGE OF ENGINEERING

Branch Code / Name : 106 : B.E. Electronics and Communication Engineering University : AUC
 Semester : 04

Register No.	Name of the Student	Subjects	Attend hr 1	Total hr 1	Attend hr 2	Total hr2	IM 2	Attend hr 3	Tot hr 3	IM 3	Attend hr 4	Total hr4	IM 4
732321106002	DEEPAKKUMAR R	EC3401						41	45	80	48	48	95
		EC3451						21	21	80	35	35	76
		EC3452						21	24	72	27	27	76
		EC3461									45	45	96
		EC3462									45	45	94
		EC3491						20	24	85	28	28	82
		EC3492						38	44	80	54	54	95
		GE3451						17	18	82	30	30	84
		NCCXX1											
732321106003	ELAVARASAN J	EC3401						44	45	82	48	48	96
		EC3451						20	21	86	35	35	88
		EC3452						22	24	75	27	27	76
		EC3461									45	45	96
		EC3462									45	45	92
		EC3491						22	24	87	28	28	83
		EC3492						40	44	82	54	54	97
		GE3451						17	18	86	30	30	86
		NCCXX1											
732321106004	GIRITHARAN S	EC3401						40	45	96	48	48	98
		EC3451						20	21	90	34	35	92
		EC3452						21	24	94	26	27	82
		EC3461									45	45	98
		EC3462									45	45	98
		EC3491						21	24	92	27	28	91
		EC3492						39	44	92	53	54	98
		GE3451						16	18	91	30	30	88
		NCCXX1									40	45	85
732321106005	MAHALAKSHMI R	EC3401						41	45	85	48	48	98
		EC3451						20	21	92	35	35	96
		EC3452						21	24	70	27	27	90
		EC3461									45	45	98
		EC3462									45	45	98
		EC3491						22	24	96	28	28	92
		EC3492						43	44	92	51	54	99
		GE3451						17	18	92	30	30	90
		NCCXX1											
732321106006	MALAVI P	EC3401						41	45	92	48	48	98
		EC3451						20	21	95	34	35	98
		EC3452						22	24	88	27	27	94
		EC3461									45	45	98
		EC3462									45	45	98
		EC3491						22	24	95	28	28	93
		EC3492						43	44	94	54	54	99
		GE3451						17	18	95	30	30	93
		NCCXX1											
732321106007	MALINI P	EC3401						41	45	90	48	48	98
		EC3451						20	21	96	34	35	98
		EC3452						22	24	90	27	27	94
		EC3461									45	45	98

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	EC3461					45	45	98
	EC3462					45	45	98
	EC3491	22	24	94	28	28	93	
	EC3492	43	44	94	54	54	99	
	GE3451	17	18	95	30	30	93	
	NCCXX1							
	SB8024				45	45	99	
732321106008	MUKUNDHAN AB	EC3401	45	45	94	47	48	98
	EC3451	21	21	93	35	35	96	
	EC3452	24	24	83	27	27	76	
	EC3461				45	45	98	
	EC3462				45	45	96	
	EC3491	24	24	94	28	28	92	
	EC3492	44	44	93	54	54	97	
	GE3451	18	18	94	30	30	91	
	NCCXX1				42	45	93	
	SB8025				45	45	99	
732321106010	SHARMILI J	EC3401	43	45	90	48	48	96
	EC3451	21	21	91	35	35	82	
	EC3452	22	24	70	26	27	80	
	EC3461				45	45	98	
	EC3462				45	45	92	
	EC3491	22	24	96	27	28	91	
	EC3492	43	44	90	54	54	98	
	GE3451	17	18	91	30	30	92	
	NCCXX1							
	SB8024				45	45	99	
732321106011	SUBASH B	EC3401	40	45	70	45	48	92
	EC3451	17	24	70	32	35	72	
	EC3452	20	24	70	25	27	72	
	EC3461				42	45	85	
	EC3462				45	45	90	
	EC3491	20	24	85	26	28	76	
	EC3492	39	44	70	46	54	91	
	GE3451	15	18	70	28	30	76	
	NCCXX1							
	SB8026				39	45	92	
732321106012	VIMALRAJ K	EC3401	43	45	80	48	48	96
	EC3451	20	21	80	35	35	76	
	EC3452	21	24	74	26	27	72	
	EC3461				45	45	96	
	EC3462				45	45	94	
	EC3491	21	24	88	28	28	80	
	EC3492	42	44	80	54	54	95	
	GE3451	16	18	80	30	30	83	
	NCCXX1							
	SB8026				45	45	97	
732321106302	AKASH A	EC3401	40	45	71	0	48	0
	EC3451	19	21	72	0	35	0	
	EC3452	22	24	74	0	27	0	
	EC3461				21	45	0	
	EC3462				27	45	0	
	EC3491	23	24	72	0	28	0	
	EC3492	38	44	72	0	54	0	
	GE3451	17	18	72	0	30	0	
	NCCXX1							
	SB8026							
732321106304	ARUN C V	EC3401	40	45	76			

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Inst Code & Name : 7323 - S.S.M. COLLEGE OF ENGINEERING

	EC3451	18	21	72	35	35	72	
	EC3452	22	24	72	27	27	72	
	EC3461				42	45	83	
	EC3462				45	45	82	
	EC3491	22	24	78	28	28	76	
	EC3492	41	44	74	54	54	94	
	GE3451	16	18	73	30	30	76	
	NCCXX1							
	SB8026				45	45	94	
732321106306	CHANTHURU S	EC3401	43	45	73	44	48	96
	EC3451	18	21	73	32	35	70	
	EC3452	21	24	70	25	27	74	
	EC3461				45	45	84	
	EC3462				45	45	85	
	EC3491	22	24	79	26	28	75	
	EC3492	42	44	73	46	46	93	
	GE3451	16	18	74	26	30	75	
	NCCXX1							
	SB8026				39	45	92	
732321106307	DINESH KUMAR M	EC3401	40	45	74	46	48	92
	EC3451	19	21	74	34	35	72	
	EC3452	23	24	74	26	27	72	
	EC3461				36	45	82	
	EC3462				45	45	86	
	EC3491	23	24	76	27	28	72	
	EC3492	42	44	71	51	54	91	
	GE3451	16	18	72	29	30	74	
	NCCXX1							
	SB8026				39	45	93	
732321106308	DIWAKAR M	EC3401	43	45	75	44	48	94
	EC3451	21	21	72	33	35	76	
	EC3452	22	24	70	26	27	76	
	EC3461				45	45	84	
	EC3462				45	45	84	
	EC3491	23	24	72	27	28	71	
	EC3492	39	44	72	53	54	92	
	GE3451	17	18	71	29	30	75	
	NCCXX1							
	SB8026				39	45	92	
732321106309	EVANJALIN BRIGHTY A	EC3401	0	45	0	0	48	0
	EC3451	0	21	0	0	35	0	
	EC3452	0	24	0	0	27	0	
	EC3461				0	45	0	
	EC3462				0	45	0	
	EC3491	0	24	0	0	28	0	
	EC3492	0	44	0	0	54	0	
	GE3451	0	18	0	0	30	0	
	NCCXX1							
732321106310	GANESH AMIN	EC3401	41	45	72	0	48	0
	EC3451	19	21	73	0	35	0	
	EC3452	20	24	72	0	27	0	
	EC3461				24	45	0	
	EC3462				30	45	0	
	EC3491	21	24	73	0	28	0	
	EC3492	40	44	72	0	54	0	
	GE3451	16	18	72	0	30	0	
	NCCXX1							
	SB8026				45	45	94	

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Inst Code & Name : 7323 - S.S.M. COLLEGE OF ENGINEERING

732321106311 GANESH K	EC3401	42	45	73	0	48	0
	EC3451	17	21	76	0	35	0
	EC3452	21	24	70	0	27	0
	EC3461				21	45	0
	EC3462				24	45	0
	EC3491	22	24	75	0	28	0
	EC3492	38	44	73	0	54	0
	GE3451	15	18	75	0	30	0
	NCCXX1						
	SB8021						
732321106312 GIRIDHARAN T	EC3401	41	45	74	47	48	95
	EC3451	20	21	72	31	35	72
	EC3452	22	24	74	26	27	72
	EC3461				42	45	90
	EC3462				45	45	82
	EC3491	23	24	74	27	28	78
	EC3492	41	44	70	51	54	92
	GE3451	18	18	74	28	30	74
	NCCXX1						
	SB8021						
732321106314 HAREESH K	EC3401	42	45	75	46	48	93
	EC3451	20	21	70	35	35	74
	EC3452	20	24	70	25	27	74
	EC3461				42	45	87
	EC3462				45	45	90
	EC3491	19	24	78	26	28	78
	EC3492	39	44	71	48	54	92
	GE3451	16	18	71	29	30	76
	NCCXX1						
	SB8021						
732321106315 JETHIN A J	EC3401	44	45	76	43	48	92
	EC3451	20	21	71	32	35	72
	EC3452	23	24	74	24	27	72
	EC3461				45	45	88
	EC3462				45	45	86
	EC3491	23	27	74	25	28	76
	EC3492	42	44	74	46	54	93
	GE3451	17	18	73	28	30	73
	NCCXX1						
	SB8021						
732321106316 KARTHI D	EC3401	43	45	74	44	48	95
	EC3451	20	21	72	34	35	70
	EC3452	24	24	70	25	27	70
	EC3461				42	45	89
	EC3462				45	45	85
	EC3491	24	24	78	27	28	78
	EC3492	40	44	76	53	54	94
	GE3451	17	18	74	30	30	74
	NCCXX1						
	SB8021						
732321106317 KAVIN PRASANTH C	EC3401	39	45	70	0	48	0
	EC3451	17	21	73	0	35	0
	EC3452	19	24	72	0	27	0
	EC3461				18	45	0
	EC3462						
	EC3491	20	24	75	0	28	0
	EC3492	35	44	70	0	54	0
	GE3451	14	18	70	0	30	0
	NCCXX1						
	SB8021						

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Inst Code & Name : 7323 - S.S.M. COLLEGE OF ENGINEERING

Inst Code & Name	Subject	EC3401	EC3451	EC3452	EC3461	EC3462	EC3491	EC3492	GE3451
732321106318 KOKILAVANI K	NCCXX1								
	SB8021								
	EC3401	44	45	75	47	48	92		
	EC3451	21	21	76	31	35	76		
	EC3452	22	24	72	26	27	74		
	EC3461				45	45	88		
	EC3462				45	45	86		
	EC3491	22	24	78	27	28	78		
732321106319 LAVANYA RAJ P	EC3492	40	44	76	51	54	92		
	GE3451	16	18	76	29	30	74		
	NCCXX1								
	SB8021								
	EC3401	43	45	76	45	48	93		
	EC3451	19	21	76	32	35	72		
	EC3452	21	24	70	25	27	76		
	EC3461				45	45	86		
732321106320 MAMATHA	EC3462				45	45	88		
	EC3491	22	24	78	26	28	74		
	EC3492	42	44	76	53	54	93		
	GE3451	15	18	76	27	30	74		
	NCCXX1								
	SB8021								
	EC3401	44	45	73	42	48	91		
	EC3451	21	21	71	31	35	70		
732321106321 MANI K	EC3452	22	24	74	24	27	72		
	EC3461				42	45	89		
	EC3462				45	45	86		
	EC3491	23	24	76	25	28	75		
	EC3492	40	44	72	51	54	91		
	GE3451	17	18	72	28	30	72		
	NCCXX1								
	SB8021								
732321106322 MEDON ROHITH S	EC3401	45	45	74	0	48	0		
	EC3451	19	21	72	0	35	0		
	EC3452	23	24	70	0	27	0		
	EC3461				24	45	0		
	EC3462				27	45	0		
	EC3491	23	24	80	0	28	0		
	EC3492	39	44	71	0	54	0		
	GE3451	17	18	71	0	30	0		
732321106323 MOHAMMADASIF P	NCCXX1								
	SB8021								
	EC3401	41	45	72	47	48	96		
	EC3451	19	21	70	33	35	78		
	EC3452	19	24	72	25	27	72		
	EC3461				45	45	89		
	EC3462				45	45	88		
	EC3491	20	24	77	26	28	76		
732321106323 MOHAMMADASIF P	EC3492	38	44	73	44	54	91		
	GE3451	16	18	72	29	30	74		
	NCCXX1								
	SB8021								
	EC3401	39	45	73	47	48	92		
	EC3451	17	21	80	35	35	72		
	EC3452	19	24	70	25	27	72		
	EC3461				45	45	89		
732321106323 MOHAMMADASIF P	EC3462				45	45	88		
	EC3491	19	24	80	28	28	76		

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APRIL / MAY EXAMINATION, 2023 - EXAMINATIONS

Inst Code & Name : 7323 - S.S.M. COLLEGE OF ENGINEERING

Inst Code & Name	Exam Code	Score	Score	Score	Score	Score	Score
	EC3492	39	44	76	54	54	94
	GE3451	18	18	78	29	30	75
	NCCXX1						
	SB8021						
732321106324 MOHAMMED NAWAZ	EC3401	0	45	0	0	48	0
	EC3451	0	21	0	0	35	0
	EC3452	0	24	0	0	27	0
	EC3461				0	45	0
	EC3462				0	45	0
	EC3491	0	24	0	0	28	0
	EC3492	0	44	0	0	54	0
	GE3451	0	18	0	0	30	0
	NCCXX1						
732321106325 MOHANAKRISHNAN V	EC3401	41	45	75	42	48	93
	EC3451	20	21	72	33	35	76
	EC3452	22	24	74	25	27	72
	EC3461				42	45	87
	EC3462				45	45	86
	EC3491	22	24	75	26	28	72
	EC3492	40	44	72	51	54	92
	GE3451	17	18	72	29	30	72
	NCCXX1						
	SB8021						
732321106326 NAGARAJ BELAM	EC3401	40	45	72	46	48	92
	EC3451	20	21	76	35	35	72
	EC3452	21	24	72	25	27	74
	EC3461				45	45	90
	EC3462				45	45	88
	EC3491	21	24	80	26	28	78
	EC3492	42	44	76	48	54	93
	GE3451	17	18	76	29	30	76
	NCCXX1						
	SB8021						
732321106328 PAVITHRAN A	EC3401	39	45	72	45	48	95
	EC3451	19	21	73	35	35	72
	EC3452	21	24	72	26	27	72
	EC3461				39	45	88
	EC3462				45	45	89
	EC3491	20	24	80	27	28	76
	EC3492	40	44	72	53	54	92
	GE3451	15	18	74	28	30	74
	NCCXX1						
	SB8021						
732321106329 PRAKASH K	EC3401	43	45	73	46	48	92
	EC3451	21	21	74	32	35	70
	EC3452	22	24	74	26	27	74
	EC3461				42	45	86
	EC3462				45	45	85
	EC3491	22	24	75	27	28	75
	EC3492	40	44	74	52	54	93
	GE3451	16	18	73	28	30	75
	NCCXX1						
	SB8021						
732321106332 SAGAR D	EC3401	41	45	70	44	48	94
	EC3451	19	21	71	33	35	72
	EC3452	22	24	70	26	27	74
	EC3461				42	45	86
	EC3462				45	45	85
	EC3491	22	24	75	27	28	75
	EC3492	40	44	74	52	54	93
	GE3451	16	18	73	28	30	75
	NCCXX1						
	SB8021						

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Assessment Details Entered

APRIL / MAY EXAMINATION, 2023 - EXAMINATIONS

Inst Code & Name : 7323 - S.S.M. COLLEGE OF ENGINEERING

	EC3491	22	24	72	27	28	73
	EC3492	40	44	72	51	54	91
	GE3451	16	18	71	28	30	72
	NCCXX1						
	SB8021						
732321106333 SAKTHIVEL M	EC3401	44	45	72	46	48	92
	EC3451	21	21	72	34	35	74
	EC3452	21	24	72	27	27	72
	EC3461				42	45	88
	EC3462				45	45	85
	EC3491	23	24	76	28	28	78
	EC3492	41	44	73	53	54	92
	GE3451	17	18	72	29	30	74
	NCCXX1						
	SB8021						
732321106334 SASIKUMAR GG	EC3401	37	45	70	0	48	0
	EC3451	17	21	70	0	35	0
	EC3452	18	24	74	0	27	0
	EC3461				21	45	0
	EC3462				24	45	0
	EC3491	19	24	73	0	28	0
	EC3492	35	44	70	0	54	0
	GE3451	14	18	70	0	30	0
	NCCXX1						
	SB8021						
732321106335 SATHEESH L	EC3401	37	45	70	45	48	93
	EC3451	17	21	70	34	34	72
	EC3452	18	24	70	25	27	70
	EC3461				39	45	82
	EC3462				45	45	86
	EC3491	17	24	75	26	28	73
	EC3492	37	44	70	47	54	91
	GE3451	15	18	70	27	30	71
	NCCXX1						
	SB8021						
732321106336 SHAMIL M	EC3401	42	45	73	47	48	92
	EC3451	20	21	72	30	35	74
	EC3452	23	24	72	25	27	72
	EC3461				39	45	84
	EC3462				45	45	83
	EC3491	23	24	77	26	28	72
	EC3492	41	44	72	53	54	91
	GE3451	16	18	72	28	30	73
	NCCXX1						
	SB8021						
732321106337 SHAMILA M K	EC3401	43	45	72	47	48	95
	EC3451	21	21	74	35	35	76
	EC3452	22	24	74	26	27	74
	EC3461				45	45	87
	EC3462				45	45	82
	EC3491	23	24	75	27	28	78
	EC3492	40	44	71	48	54	92
	GE3451	17	18	73	29	30	75
	NCCXX1						
	SB8021						
732321106338 SREESHITHA P	EC3401	42	45	76	47	48	95
	EC3451	18	21	76	34	35	76
	EC3452	22	24	72	25	27	72

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Assessment Details Entered
APRIL / MAY EXAMINATION, 2023 - EXAMINATIONS

Inst Code & Name : 7323 - S.S.M. COLLEGE OF ENGINEERING

	EC3461					42	45	90
	EC3462					45	45	86
	EC3491	23	24	80	26	28	79	
	EC3492	41	44	76	53	54	93	
	GE3451	16	18	76	30	30	76	
	NCCXX1							
	SB8021							
732321106339	STARAL OLIVERA	EC3401	38	45	72	47	48	96
		EC3451	20	21	72	35	35	74
		EC3452	21	24	74	26	27	72
		EC3461				42	45	87
		EC3462				45	45	85
		EC3491	21	24	78	27	28	74
		EC3492	38	44	71	51	54	91
		GE3451	17	18	72	29	30	71
		NCCXX1						
		SB8021						
732321106340	SUKANYA K	EC3401	43	45	76	47	48	95
		EC3451	21	21	76	34	35	76
		EC3452	22	24	72	25	27	74
		EC3461				42	45	90
		EC3462				45	45	86
		EC3491	22	24	80	26	28	79
		EC3492	40	44	76	48	54	93
		GE3451	17	18	76	30	30	76
		NCCXX1						
		SB8021						
732321106342	UMANANDHINI G	EC3401	43	45	72	48	48	94
		EC3451	21	21	72	33	35	72
		EC3452	22	24	70	26	27	70
		EC3461				45	45	82
		EC3462				45	45	89
		EC3491	22	24	78	28	28	75
		EC3492	42	44	72	53	54	92
		GE3451	18	18	72	28	30	72
		NCCXX1						
		SB8021						
732321106343	VAISHNAVI J	EC3401	43	45	75	46	48	92
		EC3451	20	21	76	33	35	70
		EC3452	23	24	72	25	27	72
		EC3461				42	45	85
		EC3462				45	45	85
		EC3491	23	24	75	27	28	76
		EC3492	42	44	76	46	54	93
		GE3451	17	18	76	27	30	75
		NCCXX1						
		SB8021						



**TIME TABLE-B.E./B.Tech./B.Arch. DEGREE EXAMINATIONS - APRIL/MAY-2023
(REGULATIONS-2021)
CHOICE BASED CREDIT SYSTEM (CBCS)**

Branch Name		B.E. Electronics and Communication Engineering		
Sl. No.	Subject Code	Subject Name	Exam Date	Session
01	MA3151	Matrices and Calculus	22-AUG-23	F.N.
01	HS3151	Professional English - I	24-AUG-23	F.N.
01	HS3152	Professional English - I	24-AUG-23	F.N.
01	PH3151	Engineering Physics	26-AUG-23	F.N.
01	GE3152	Heritage of Tamils	29-AUG-23	F.N.
01	GE3151	Problem Solving and Python Programming	31-AUG-23	F.N.
01	CY3151	Engineering Chemistry	02-SEP-23	F.N.
02	MA3251	Statistics and Numerical Methods	21-AUG-23	F.N.
02	EC3251	Circuit Analysis	23-AUG-23	F.N.
02	PH3254	Physics for Electronics Engineering	25-AUG-23	F.N.
02	GE3252	Tamils and Technology	28-AUG-23	F.N.
02	BE3254	Electrical and Instrumentation Engineering	01-SEP-23	F.N.
02	GE3251	Engineering Graphics	04-SEP-23	F.N.
02	GE3251	Engineering Graphics*	04-SEP-23	A.N.
02	HS3252	Professional English - II	07-SEP-23	F.N.
02	HS3251	Professional English - II	07-SEP-23	F.N.
03	CS3353	C Programming and Data Structures	06-JUN-23	F.N.
03	MA3355	Random Processes and Linear Algebra	08-JUN-23	F.N.
03	EC3351	Control Systems	09-JUN-23	F.N.
03	EC3352	Digital Systems Design	12-JUN-23	F.N.
03	EC3353	Electronic Devices and Circuits	14-JUN-23	F.N.
03	EC3354	Signals and Systems	16-JUN-23	F.N.
04	GE3451	Environmental Sciences and Sustainability	05-JUN-23	F.N.
04	EC3452	Electromagnetic Fields	07-JUN-23	F.N.
04	EC3492	Digital Signal Processing	10-JUN-23	F.N.
04	EC3451	Linear Integrated Circuits	13-JUN-23	F.N.
04	EC3401	Networks and Security	15-JUN-23	F.N.
04	EC3491	Communication Systems	19-JUN-23	F.N.

FN: FORENOON (10.00 A.M. TO 01. 00 P.M.)
AN: AFTERNOON (02.00 P.M. TO 5.00 P.M.)



P. Subash Chandrabose



ANNA UNIVERSITY, CHENNAI - 600 025
TIME TABLE-B.E./B.Tech./B.Arch. DEGREE EXAMINATIONS
APRIL/MAY-2023
(REGULATIONS-2017)
CHOICE BASED CREDIT SYSTEM (CBCS)

Branch Name **B.E. Electronics and Communication Engineering**

emes ter	Subject Code	Subject Name	Exam Date	Session
01	MA8151	Engineering Mathematics - I	26-JUN-23	A.N.
01	PH8151	Engineering Physics	28-JUN-23	A.N.
01	GE8152	Engineering Graphics	30-JUN-23	A.N.
01	HS8151	Communicative English	01-JUL-23	A.N.
01	GE8151	Problem Solving and Python Programming	03-JUL-23	A.N.
01	CY8151	Engineering Chemistry	04-JUL-23	A.N.
02	EC8252	Electronic Devices	17-JUN-23	A.N.
02	MA8251	Engineering Mathematics - II	26-JUN-23	F.N.
02	PH8253	Physics for Electronics Engineering	28-JUN-23	F.N.
02	EC8251	Circuit Analysis	30-JUN-23	F.N.
02	HS8251	Technical English	01-JUL-23	F.N.
02	BE8254	Basic Electrical and Instrumentation Engineering	03-JUL-23	F.N.
03	EC8391	Control Systems Engineering	12-JUN-23	A.N.
03	EC8392	Digital Electronics	13-JUN-23	A.N.
03	EC8393	Fundamentals of Data Structures in C	14-JUN-23	F.N.
03	EC8351	Electronic Circuits -I	19-JUN-23	A.N.
03	EC8352	Signals and Systems	21-JUN-23	A.N.
03	MA8352	Linear Algebra and Partial Differential Equations	04-JUL-23	F.N.
04	MA8451	Probability and Random Processes	08-JUN-23	F.N.
04	EC8453	Linear Integrated Circuits	13-JUN-23	F.N.
04	EC8451	Electromagnetic Fields	19-JUN-23	F.N.
04	EC8452	Electronic Circuits -II	20-JUN-23	A.N.
04	GE8291	Environmental Science and Engineering	22-JUN-23	F.N.
04	EC8491	Communication Theory	22-JUN-23	A.N.
05	EC8501	Digital Communication	06-JUN-23	F.N.
05	EC8553	Discrete-Time Signal Processing	08-JUN-23	A.N.
05	EC8074	Robotics and Automation	09-JUN-23	A.N.
05	EC8073	Medical Electronics	09-JUN-23	A.N.
05	EC8552	Computer Architecture and Organization	10-JUN-23	A.N.
05	GE8074	Human Rights	16-JUN-23	A.N.
05	EC8075	Nano Technology and Applications	16-JUN-23	A.N.
05	CS8493	Operating Systems	17-JUN-23	F.N.
05	EC8551	Communication Networks	20-JUN-23	F.N.
05	CS8392	Object Oriented Programming	23-JUN-23	A.N.
05	GE8077	Total Quality Management	24-JUN-23	F.N.
05	OEI551	Logic and Distributed Control Systems	27-JUN-23	F.N.
05	OCH551	Industrial Nanotechnology	27-JUN-23	F.N.
05	OMD552	Hospital Waste Management	27-JUN-23	F.N.

Candidates registered for 7th semester (advance) courses in 6th semester may refer to 7th semester schedule

FN: FORENOON (10.00 A.M. TO 01.00 P.M.)
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ANNA UNIVERSITY, CHENNAI - 600 025
TIME TABLE-B.E./B.Tech./B.Arch. DEGREE EXAMINATIONS
APRIL/MAY-2023
(REGULATIONS-2017)
CHOICE BASED CREDIT SYSTEM (CBCS)

Branch Name **B.E. Electronics and Communication Engineering**

<i>emes ter</i>	<i>Subject Code</i>	<i>Subject Name</i>	<i>Exam Date</i>	<i>Session</i>
05	OCE552	Geographic Information System	27-JUN-23	F.N.
05	OBT553	Fundamentals of Nutrition	27-JUN-23	F.N.
05	OME551	Energy Conservation and Management	27-JUN-23	F.N.
05	OIT552	Cloud Computing	27-JUN-23	F.N.
05	OMD551	Basic of Biomedical Instrumentation	27-JUN-23	F.N.
05	OCE551	Air Pollution and Control Engineering	27-JUN-23	F.N.
05	OIM551	World Class Manufacturing	27-JUN-23	F.N.
05	OTL554	Wavelets and its Applications	27-JUN-23	F.N.
05	OMD553	Telehealth Technology	27-JUN-23	F.N.
05	OTL553	Telecommunication Network Management	27-JUN-23	F.N.
05	OTL551	Space Time Wireless Communication	27-JUN-23	F.N.
05	OCS551	Software Engineering	27-JUN-23	F.N.
05	OMF551	Product Design and Development	27-JUN-23	F.N.
05	OEI552	SCADA System and Applications Management	27-JUN-23	F.N.
05	OML552	Microscopy	27-JUN-23	F.N.
05	ORO551	Renewable Energy Sources	27-JUN-23	F.N.
05	OBT554	Principles of Food Preservation	27-JUN-23	F.N.
05	OTL552	Digital Audio Engineering	27-JUN-23	F.N.
05	OIT551	Database Management Systems	27-JUN-23	F.N.
06	EC8095	VLSI Design	05-JUN-23	A.N.
06	MG8591	Principles of Management	07-JUN-23	F.N.
06	EC8651	Transmission Lines and RF Systems	10-JUN-23	F.N.
06	EC8003	CMOS Analog IC Design	12-JUN-23	F.N.
06	EC8002	Multimedia Compression and Communication	12-JUN-23	F.N.
06	EC8091	Advanced Digital Signal Processing	12-JUN-23	F.N.
06	EC8004	Wireless Networks	12-JUN-23	F.N.
06	EC8001	MEMS and NEMS	12-JUN-23	F.N.
06	GE8075	Intellectual Property Rights	12-JUN-23	F.N.
06	EC8691	Microprocessors and Microcontrollers	14-JUN-23	A.N.
06	CS8792	Cryptography and Network Security	16-JUN-23	F.N.
06	EC8652	Wireless Communication	21-JUN-23	F.N.
07	EC8701	Antennas and Microwave Engineering	27-MAY-23	F.N.
07	EC8006	Mixed Signal IC Design	27-MAY-23	A.N.
07	EC8071	Cognitive Radio	27-MAY-23	A.N.
07	EC8092	Advanced Wireless Communication	27-MAY-23	A.N.
07	CS8082	Machine Learning Techniques	27-MAY-23	A.N.
07	EC8005	Electronics Packaging and Testing	27-MAY-23	A.N.
07	GE8072	Foundation Skills in Integrated Product Development	29-MAY-23	A.N.

Candidates registered for 7th semester (advance) courses in 6th semester may refer to 7th semester schedule



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ANNA UNIVERSITY, CHENNAI - 600 025
TIME TABLE-B.E./B.Tech./B.Arch. DEGREE EXAMINATIONS

APRIL/MAY-2023
(REGULATIONS-2017)

CHOICE BASED CREDIT SYSTEM (CBCS)

Branch Name **B.E. Electronics and Communication Engineering**

emes ter	Subject Code	Subject Name	Exam Date	Session
07	OCH752	Energy Technology	30-MAY-23	A.N.
07	OBT752	Microbiology	30-MAY-23	A.N.
07	OCE751	Environmental and Social Impact Assessment	30-MAY-23	A.N.
07	OBT753	Introduction of Cell Biology	30-MAY-23	A.N.
07	OBM751	Basics of Human Anatomy and Physiology	30-MAY-23	A.N.
07	OAI751	Agricultural Finance, Banking and Co-operation	30-MAY-23	A.N.
07	OBM752	Hospital Management	30-MAY-23	A.N.
07	OAN751	Low Cost Automation	30-MAY-23	A.N.
07	OME754	Industrial Safety	30-MAY-23	A.N.
07	OGI752	Fundamentals of Planetary Remote Sensing	30-MAY-23	A.N.
07	OIC751	Transducers Engineering	30-MAY-23	A.N.
07	OTL751	Telecommunication System Modeling and Simulation	30-MAY-23	A.N.
07	OCS751	Data Structures and Algorithms	30-MAY-23	A.N.
07	OCS752	Introduction to C Programming	30-MAY-23	A.N.
07	OCY751	Waste Water Treatment	30-MAY-23	A.N.
07	OEN751	Green Building Design	30-MAY-23	A.N.
07	OGI751	Climate Change and its Impact	30-MAY-23	A.N.
07	OIE751	Robotics	30-MAY-23	A.N.
07	OME752	Supply Chain Management	30-MAY-23	A.N.
07	OME753	Systems Engineering	30-MAY-23	A.N.
07	OMF751	Lean Six Sigma	30-MAY-23	A.N.
07	OML751	Testing of Materials	30-MAY-23	A.N.
07	OPY751	Clinical Trials	30-MAY-23	A.N.
07	EC8751	Optical Communication	01-JUN-23	F.N.
07	EC8702	Ad hoc and Wireless Sensor Networks	02-JUN-23	A.N.
07	EC8791	Embedded and Real Time Systems	03-JUN-23	A.N.
07	GE8071	Disaster Management	07-JUN-23	A.N.
08	IT8006	Principles of Speech Processing	26-MAY-23	F.N.
08	EC8011	DSP Architecture and Programming	26-MAY-23	F.N.
08	EC8010	Video Analytics	26-MAY-23	F.N.
08	EC8008	Photonic Networks	29-MAY-23	F.N.
08	EC8007	Low power SoC Design	29-MAY-23	F.N.
08	EC8072	Electro Magnetic Interference and Compatibility	29-MAY-23	F.N.
08	OME756	Industrial Design and Rapid Prototyping Techniques	29-MAY-23	F.N.
08	OME755	Applied Design Thinking	01-JUN-23	A.N.
08	EC8093	Digital Image Processing	02-JUN-23	F.N.
08	EC8094	Satellite Communication	03-JUN-23	F.N.
08	CS8086	Soft Computing	03-JUN-23	F.N.

Candidates registered for 7th semester (advance) courses in 6th semester may refer to 7th semester schedule



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PROFORMA 4

ANNA UNIVERSITY – CHENNAI - THEORY EXAMINATION - APRIL-MAY 2023

HALL NO: 107

SEATING ARRANGEMENT

Centre Code & Name	7323 & SSM COLLEGE OF ENGINEERING	
	Date	21-07-2023
	Time	10.00 To 01.00 PM

BOARD					
IV ROW	III ROW	II ROW	I ROW		
✓ 25 732322622001	✓ 13 732322631012	✓ 12 732322622009	✓ 1 732322631002	DOOR	
✓ 24 732322631019	14 732322631014	✓ 11 732322622010	✓ 2 732322631003		
✓ 23 732322622002	✓ 15 732322622008	✓ 10 732322631011	✓ 3 732322622016		
✓ 22 732322631018	✓ 16 732322631015	✓ 9 732322622011	✓ 4 732322631004		
✓ 21 732322622004	✓ 17 732322622007	✓ 8 732322631010	✓ 5 732322622015		
✓ 20 732322631017	✓ 18 732322631016	✓ 7 732322622014	✓ 6 732322631006		
✓ 19 732322622005					
Name & Signature of Hall Superintendent					

PROFORMA 4

ANNA UNIVERSITY - CHENNAI - THEORY EXAMINATION - APRIL-MAY 2023

HALL NO: 110

SEATING ARRANGEMENT

Centre Code & Name	7323 & SSM COLLEGE OF ENGINEERING	Date	21-07-2023
		Time	10.00 To 01.00 PM

BOARD				
IV ROW	III ROW	II ROW	I ROW	DOOR
25	13	12	1	
732321622005	732322631031	732322622022	732322631035	
24				
732322631020				
23	14	11	2	
732322622027	732322631030	732322622021	732322631036	
22	15	10	3	
732322631022	732322622023	732322631032	732322622017	
21	16	9	4	
732322622026	732322631029	732322622020	732322631035	
20	17	8	5	
732322631025	732322622024	732322631033	732322622018	
19	18	7	6	
732322622025	732322631026	732322622019	732322631034	
Name & Signature of Hall Superintendent		P. JAYANATH & P. JAYANATH		

PROFORMA 4

ANNA UNIVERSITY - CHENNAI - THEORY EXAMINATION - APRIL-MAY 2023

HALL NO: 111

SEATING ARRANGEMENT

Centre Code & Name 7323 & SSM COLLEGE OF ENGINEERING	Date	21-07-2023
	Time	10.00 To 01.00 PM

BOARD									
V ROW	IV ROW	III ROW	II ROW	I ROW	DOOR				
20	732322631066	19	732322631065		10	732322631050	1	732322631037	
21	732322631067								
22	732322631068	18	732322631064	11	732322631052	9	732322631048	2	732322631039
23	732322631071	17	732322631061	12	732322631053	8	732322631047	3	732322631040
24	732322631072	16	732322631059	13	732322631055	7	732322631046	4	732322631042
25	732322631074	15	732322631057	14	732322631056	6	732322631045	5	732322631044

Name & Signature of Hall Superintendent

S. PANJAB APPLICANT
7323-ITEN CES
S. P. A. 21/7/23

PROFORMA 4

ANNA UNIVERSITY - CHENNAI - THEORY EXAMINATION - APRIL-MAY 2023

HALL NO: 112

SEATING ARRANGEMENT

Centre Code & Name	7323 & SSM COLLEGE OF ENGINEERING	
	Date	21-07-2023
	Time	10.00 TO 01.00 PM

BOARD					
IV ROW	III ROW	II ROW	I ROW		
25 ✓	13 ✓	12 ✓	1	2	3
732322631111	732322631096	732322631094	✓	732322631076	
24 ✓					
732322631110					
23 ✓	14 ✓	14 ✓	2	3	4
732322631109	732322631097	732322631093	✓	732322631077	
ASB 22 ✓	15 ✓	10 ✓	3	4	5
732322631107	732322631099	732322631090	✓	732322631079	
21 ✓	16 ✓	9 ✓	4	5	6
732322631106	732322631100	732322631088	✓	732322631080	
20 ✓	17 ✓	8 ✓	5	6	7
732322631105	732322631102	732322631086	✓	732322631081	
19 ✓	18 ✓	7 ✓	6	7	8
732322631104	732322631103	732322631083	✓	732322631082	
DOOR					

Name & Signature of Hall Superintendent

[Signature]
21/7/23
K. PRASANNI - AP/MCA - 7323

HALL NO : 113

SEATING ARRANGEMENT

ANNA UNIVERSITY - CHENNAI - THEORY EXAMINATION - APRIL-MAY 2023

PROFORMA 4

Centre Code & Name	7323 & SSM COLLEGE OF ENGINEERING	
	Date	21-07-2023
	Time	10.00 TO 01.00 PM

WINDOW										DOOR	
V ROW	IV ROW	III ROW	II ROW	I ROW							
41	732321401001	40	****	21	732321631052	20	****	1	732322631113		
42	****	39	732321401002	22	****	19	732321631051	2	732322405001		
43	731122413005	38	****	23	732321631053	18	****	3	732321631003		
44	****	37	732321631114	24	****	17	732321631057	4	732321405003		
45	731122413004	36	****	25	732321631047	16	****	5	732321631006		
46	****	35	732321631112	26	****	15	732321631045	6	****		
47	731122413003	34	****	27	732321631089	14	****	7	732321631010		
48	****	33	732321631099	28	****	13	732321631022	8	****		
49	731122413001	32	****	29	732321631091	12	****	9	732321631017		
50	****	31	732321631095	30	****	11	732321631020	10	****		

Name & Signature of Hall Superintendent

1. *[Signature]* A. Divyapriya
 2. *[Signature]* A. Divyapriya
 3. *[Signature]* A. Divyapriya

ANNA UNIVERSITY –CHENNAI
THEORY EXAMINATIONS – Apr - May 2023
SSM COLLEGE OF ENGINEERING, KOMARAPALAYAM-638 183

Duty List – Internals

The following staffs are hereby appointed as Hall Superintendent for the Anna University- Chennai- Theory Examinations scheduled during **Apr - May 2023** in our college. The date and time of invigilation work is given below. He/She is requested **to report to the Exam Cell at least 45 minutes** before the commencement of the examination.

Those who are appointed as the hall superintendents **shall not absent** themselves from attending the invigilation work without written permission from the Principal. **In case of alteration is required, he/she has to find a substitute and the acceptance of the substitute shall be informed to the Exam Cell well in advance.**

Commencement of exams : Forenoon -10.00AM to 1.00 PM

Afternoon -2.00 PM to 5.00 PM

Particulars of invigilation work

Duty is Compulsory

S.No	Name of the Faculty	Dept	Forenoon				Afternoon	
			26/05	05/06	10/06	27/06		
1.	Ezhilarasi M	CIVIL	26/05	05/06	10/06	27/06		
2.	Sakthivel N	CIVIL	27/05	07/06	13/06		08/06	
3.	Mahalakshmi K	CSE	26/05	09/06	14/06		19/06	
4.	Vimalananthi S	CSE	08/06	13/06	21/06	27/06		
5.	Manikandan R	CSE	05/06	10/06	16/06		29/05	
6.	Munusamy S S	EEE	26/05	07/06	16/06		09/06	
7.	Madeswaran D	EEE	29/05	10/06	17/06		15/06	
8.	Dhanasekaran A	EEE	06/06	12/06	21/06		26/05	
9.	Ragupathy S	EEE	07/06	13/06	22/06		27/05	
10.	Devipriya A G	EEE	30/05	08/06	17/06		14/06	
11.	Asha R	EEE	31/05	10/06	15/06	28/06		
12.	Loganath P	ECE	05/06	12/06	17/06		30/05	
13.	Chamundeeswari M	ECE	30/05	09/06	16/06	21/06		
14.	Revathi G	ECE	01/06	08/06	15/06	03/07		
15.	Rajkumar R	ECE	07/06	10/06	01/07		02/06	
16.	Pandiyarajan R	MECH	06/06	12/06	19/06		17/06	
17.	Nandhakumar M	MECH	09/06	14/06	23/06		07/06	
18.	Shanmugam E P	MECH	05/06	10/06	17/06		13/06	
19.	Dhandapani N	MECH	08/06	15/06	22/06		01/06	
20.	Rajesh K	MECH	07/06	13/06	24/06		03/06	
21.	Indumathi M	IT	10/06	21/06	23/06		19/06	

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ANNA UNIVERSITY –CHENNAI
PG THEORY EXAMINATIONS – APR - MAY 2023
SSM COLLEGE OF ENGINEERING, KOMARAPALAYAM-638 183

Duty List – Internals

The following staffs are hereby appointed as Hall Superintendent for the Anna University- Chennai- Theory Examinations scheduled during **APR - MAY 2023** in our college. The date and time of invigilation work is given below. He/She is requested **to report to the Exam Cell at least 45 minutes** before the commencement of the examination.

Those who are appointed as the hall superintendents **shall not absent** themselves from attending the invigilation work without written permission from the Principal. **In case of alteration is required, he/she has to find a substitute and the acceptance of the substitute shall be informed to the Exam Cell well in advance.**

Commencement of exams : Forenoon -10.00AM to 1.00 PM

Afternoon -2.00 PM to 5.00 PM

Particulars of invigilation work

Duty is Compulsory

S.No	Name of the Faculty	Dept	Forenoon			Afternoon	
1.	Ezhilarasi M	CIVIL	17-07				
2.	Sakthivel N	CIVIL				20-07	
3.	Vimalananthi S	CSE	17-07				
4.	Manikandan R	CSE				18-07	
5.	Munusamy S S	EEE				17-07	
6.	Madeswaran D	EEE	22-07				
7.	Dhanasekaran A	EEE				19-07	
8.	Ragupathy S	EEE	01-08			05-08	
9.	Devipriya A G	EEE	17-07				
10.	Asha R	EEE	18-07				
11.	Loganath P	ECE	26-07				
12.	Chamundeeswari M	ECE	01-08				
13.	Revathi G	ECE	19-07				
14.	Rajkumar R	ECE				21-07	
15.	Pandiyarajan R	MECH	31-07			08-08	
16.	Nandhakumar M	MECH				31-07	
17.	Shanmugam E P	MECH	28-07				
18.	Dhandapani N	MECH				27-07	
19.	Rajesh K	MECH				26-07	
20.	Indumathi M	IT	20-07				
21.	Sathish P	IT	27-07				

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ANNA UNIVERSITY –CHENNAI
THEORY EXAMINATIONS – Apr - May 2023
SSM COLLEGE OF ENGINEERING, KOMARAPALAYAM-638 183

Duty List – Internals

The following staffs are hereby appointed as Hall Superintendent for the Anna University- Chennai- Theory Examinations scheduled during **Apr - May 2023** in our college. The date and time of invigilation work is given below. He/She is requested **to report to the Exam Cell at least 45 minutes** before the commencement of the examination.

Those who are appointed as the hall superintendents **shall not absent** themselves from attending the invigilation work without written permission from the Principal. **In case of alteration is required, he/she has to find a substitute and the acceptance of the substitute shall be informed to the Exam Cell well in advance.**

Commencement of exams : Forenoon -10.00AM to 01.00 PM

Afternoon -02.00 PM to 05.00 PM

Particulars of invigilation work

Duty is Compulsory

S.No	Name of the Faculty	Dept	Forenoon				Afternoon	
1.	Ezhilarasi M	CIVIL	21-08					
2.	Sakthivel N	CIVIL	22-08					
3.	Manikandan R	CSE	21-08					
4.	Madeswaran D	EEE	22-08					
5.	Dhanasekaran A	EEE					04-09	
6.	Ragupathy S	EEE	26-08					
7.	Devipriya A G	EEE	25-08					
8.	Asha R	EEE	23-08					
9.	Chamundeeshwari M	ECE	21-08					
10.	Loganath P	ECE	23-08					
11.	Revathi G	ECE	25-08					
12.	Rajkumar R	ECE	26-08					
13.	Pandiyarajan R	MECH	21-08					
14.	Nandhakumar M	MECH	23-08					
15.	Shanmugam E P	MECH	25-08					
16.	Dhandapani N	MECH	26-08					
17.	Rajesh K	MECH	28-08					
18.	Sathish P	IT	21-08					
19.	Indhumathi M	IT	23-08					
20.	Baby Vennila V	IT	25-08					
21.	Ponmaniselvam M	TC	28-08					

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ANNA UNIVERSITY, CHENNAI

THEORY EXAMINATIONS – APRIL - MAY 2023

From The Chief Superintendent Anna University-Chennai 7323 - SSM College of Engineering Komarapalayam – 638 183 Namakkal DT	To Dr.P.GOVINDASAMY, ASP/EEE The Principal, Institute of Road & Transport Technology Near Vasavi College PO, Erode Dt, Tamil Nadu 638316.
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APPOINTMENT ORDER

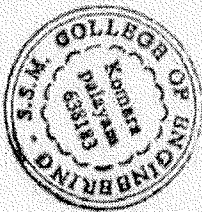
Dr.P.GOVINDASAMY, ASP/EEE is hereby appointed as Hall Superintendent for the Anna University – Chennai - Theory Examinations scheduled during **APRIL - MAY 2023** in SSM College of Engineering. The date and time of invigilation work is given below. He / She is requested to report to the chief superintendent of the university examinations at least thirty minutes before the commencement of the examination.

Those who are appointed as the hall superintendents shall not absent themselves from attending the invigilation work without written permission from the Chief Superintendent. In case leave is required, he has to find a substitute and the acceptance of the substitute shall be informed to the Chief Superintendent well in advance.

Non – acceptance of the appointment should be reported immediately to the undersigned.

Particulars of invigilation work

		FN					AN				
12-06	13-06	-	-	-	-	-	-	-	-	-	-



Principal/Chief Superintendent
Chief - Superintenden.,
Anna University Examinations
SSM COLLEGE OF ENGINEERING
Komarapalayam 638 183

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ANNA UNIVERSITY, CHENNAI

THEORY EXAMINATIONS – APRIL - MAY 2023

From The Chief Superintendent Anna University-Chennai 7323 - SSM College of Engineering Komarapalayam – 638 183 Namakkal DT	To DR.B.BABYPRIYA, ASP The Principal, Institute of Road & Transport Technology Near Vasavi College PO, Erode Dt, Tamil Nadu 638316.
--	--

APPOINTMENT ORDER

DR.B.BABYPRIYA, ASP is hereby appointed as Hall Superintendent for the Anna University – Chennai - Theory Examinations scheduled during **APRIL - MAY 2023** in SSM College of Engineering. The date and time of invigilation work is given below. He / She is requested to report to the chief superintendent of the university examinations at least thirty minutes before the commencement of the examination.

Those who are appointed as the hall superintendents shall not absent themselves from attending the invigilation work without written permission from the Chief Superintendent. In case leave is required, he has to find a substitute and the acceptance of the substitute shall be informed to the Chief Superintendent well in advance.

Non – acceptance of the appointment should be reported immediately to the undersigned.

Particulars of invigilation work

		FN					AN				
05-06	07-06	-	-	-	-	-	-	-	-	-	-



Principal/Chief Superintendent
Chief - Superintenden.,
Anna University Examinations
SSM COLLEGE OF ENGINEERING
Komarapalayam 638 183

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SSM COLLEGE OF ENGINEERING
ANNA UNIVERSITY EXAMINATION -DUTY LIST APRIL -MAY 2023

Name of Faculty	Contact	College	FN				AN
			21-08	23-08	25-08	25-08	
Mr. P. MOHAN AP/ENG	9965848971	7316	21-08	23-08	25-08		
P.Krishnan, AP/Mech	9788521854	7311	25-08				
Mrs. P. RATHIKA AP/CSE	9488143131	7316	21-08	23-08	25-08		
K.Kavitha AP/Chem	8610048066	7313	21-08	23-08	25-08		
Ms.Kiruthika AP/Maths	6381659283	7313	21-08	23-08	25-08		
Dr.G.KRISHNAMOORTHY, ASP	9944531397	7321	28-08	01-09	07-09		
Mr. B.B. SANGAMESHWARAN AP/BME	8838022447	7316	28-08	01-09	07-09		
Mrs.P.Kavitha AP/Maths	8012372759	7313	28-08	01-09	04-09	07-09	
Mrs.S.Indhumathi	9894839020	7321	28-08	01-09	07-09		
S.Senthilkumar, AP/Mech	9524696496	7311	04-09				04-09

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Question Paper Code : 30145

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.

Fourth Semester

Electronics and Communication Engineering

EC 3492 — DIGITAL SIGNAL PROCESSING

(Common to Electronics and Telecommunication Engineering/Medical Electronics)

(Regulations 2021)

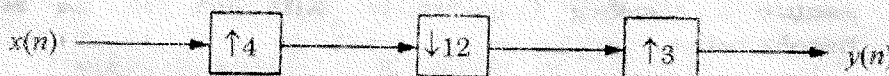
Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

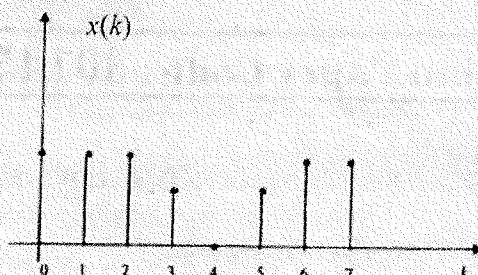
1. Find the twiddle factors for an eight-point DFT.
2. Write the relationship between circular correlation in the time domain and frequency domain.
3. What are the important features of the IIR filters?
4. How are analog poles mapped to digital poles in the impulse invariant transformation?
5. Mention the design techniques for FIR filters.
6. What are the possible types of the impulse response for linear phase FIR filters?
7. Convert the number $(0.93)_{10}$ into binary notation having five bits, including the sign bit.
8. What is the effect of Quantization?
9. For the multi-rate system shown in the Figure below, develop an expression for the output $y(n)$ as a function of the input $x(n)$.



10. What is the use of a TDM serial port?

PART B — (5 × 13 = 65 marks)

11. (a) (i) A finite duration sequence $x(n)$ of length eight has the DFT $X(k)$, as shown in the figure below



A new sequence $y(n)$ of length 16 is defined by :

$$y(n) = x\left(\frac{n}{2}\right) \text{ for } n = \text{even}$$

$$= 0 \text{ for } n = \text{odd}$$

Sketch the DFT $Y(k)$ as a function of 'k'. (6)

- (ii) Find the four-point FFT of $x(n) = \{1, 0, 1, 1\}$ using the decimation-in-time algorithm. (7)

Or

- (b) (i) Find the circular convolution of the three-point sequences $x(n) = \{1, 3, -4\}$, and $h(n) = \{-2, 1, 2\}$. (6)
- (ii) Find the eight-point IDFT using the DIT algorithm for the following input.

$$X(k) = \{20, -5.828 - j2.279, 0, -0.172 - j0.279, 0, -0.172 + j0.279, 0, -5.828 + j2.279\}$$
 (7)

12. (a) Design a Butterworth filter using the impulse-invariant method for the following specifications : (13)

$$0.8 \leq |H(e^{j\omega})| \leq 1 \quad 0 \leq \omega \leq 0.2\pi$$

$$|H(e^{j\omega})| \leq 0.2 \quad 0.6\pi \leq \omega \leq \pi$$

Or

- (b) Design a lowpass Butterworth IIR filter for the following specifications :

Passband edge frequency: 1000 Hz

Stopband edge frequency: 3000 Hz

Passband ripple: 2 dB

Stopband ripple: 20 dB

Assume a sampling frequency is 8KHz and use the bilinear transformation. (13)

13. (a) The desired impulse response of a certain FIR lowpass filter is given by

$$H(f) = 1 \text{ for } 0 \leq f \leq 1 \text{ kHz} \\ = 0 \text{ for } f > 1 \text{ kHz}$$

For a sampling rate of 10 KHz and impulse response of 1 ms duration, compute the impulse response of the FIR filter. (13)

Or

- (b) Design an FIR band-stop (band rejects or band elimination or notch) filter for the following specifications.

Cutoff frequencies = 400 Hz and 800 Hz

Sampling frequency = 2000 Hz

$N = 11$. (13)

14. (a) Consider the following transfer function.

$$H(z) = \frac{1}{(1 - 0.943z^{-1})(1 - 0.902z^{-1})} \text{ (cascade form)} \\ = \frac{1}{1 - 1.845z^{-1} + 0.850586z^{-2}} \text{ (direct form)}$$

If the coefficients are quantized by truncation or rounding so that they can be expressed in six-bit binary form in which two bits are used to represent integers (including the sign bit) and four bits to represent fractions, find the pole positions for the cascade and direct forms with quantized coefficients. (13)

Or

- (b) Determine the variance of the noise in the output due to the quantization of the input for the first-order filter.

$$y(n) = cy(n-1) + x(n), \quad 0 < |c| < 1. \quad (13)$$

15. (a) Find the representation for the spectrum of a down-sampled signal. (13)

Or

- (b) Explain the architecture of TMS320C50. (13)

PART C — (1 × 15 = 15 marks)

16. (a) Design a high-pass filter using Hamming window, with a cutoff frequency of 1.2 rad/sec and $N=9$. (15)

Or

- (b) (i) Realize an FIR system mentioned below :

$$y(n) + 2y(n-1) + 3y(n-2) = 4x(n) + 5x(n-1) + 6x(n-2)$$

Using the transposed form structure. (7)

- (ii) Find the output noise power in the direct form I and II realizations of the transfer function

$$H(z) = \frac{Y(z)}{X(z)} = \frac{0.6}{(1 - 0.9z^{-1})(1 - 0.8z^{-1})} \quad (8)$$

SSM COLLEGE OF ENGINEERING, KOMARAPALAYAM-638 183
 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
 STUDENTS REVALUATION (Photo Copy) - LIST
 APRIL/MAY 2023- ANNA UNIVERSITY EXAMINATIONS

YEAR / SEMESTER: II / IV


REGULATION: 2021

S.NO	REG.NO	NAME	SUBJECT CODE	SUBJECT NAME	AMOUNT
1.	732321106006	MALAVI.P	EC3451	Linear Integrated Circuits	300
2.	732321106010	SHARMILI.J	EC3491	Communication Systems	300
3.	732321106323	MOHAMMADASIF.P	EC3451	Linear Integrated Circuits	300
4.	732321106326	NAGARAJBELAM	GE3451	Environmental Science and Sustainability	600
			EC3451	Linear Integrated Circuits	

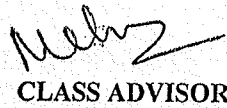
TOTAL AMOUNT : 1500

DD AMOUNT : 50

TOTAL :: 1550


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SSM COLLEGE OF ENGINEERING, KOMARAPALAYAM-638 183
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
STUDENTS REVALUATION - LIST
APRIL/MAY 2023- ANNA UNIVERSITY EXAMINATIONS

YEAR / SEMESTER: II / IV

REGULATION: 2021

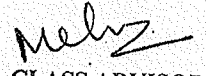
S.NO	REG.NO	NAME	SUBJECT CODE	SUBJECT NAME	AMOUNT
1.	732321106006	MALAVI.P	EC3451	Linear Integrated Circuits	400
2.	732321106010	SHARMILIJ	EC3491	Communication Systems	400

TOTAL AMOUNT : 800

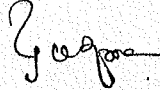
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TOTAL : 820


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Cash - 410 

SSM COLLEGE OF ENGINEERING

DEPARTMENT OF INFORMATION TECHNOLOGY

REVALUATION-II IT

S.NO	STUDENT REG.NO	STUDENT NAME	SUBJECT CODE	SUBJECT	AMOUNT
1.	732322205022	KOWSALYA.S	BE3251	BEEE	410
2.	732322205012	M.GUGHASHREE	BE3251	BEEE	410
3.	732322205004	T.ANBARASU	BE3251	BEEE	410
4.	732322205028	V.NANDHINI	BE3251	BEEE	410
5.	732322205029	NIVEDHITHA.B	BE3251	BEEE	410
6.	732322205045	M.TENDULKAR	BE3251	BEEE	410
7.	TOTAL				2460

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21/11/23
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Class Incharge

**Instructions to candidates who are receiving
Photocopy of Answer Script(s)**

1. Check whether the photocopy of the answer script supplied is yours including the subject for which you have applied for.
2. Please note that the valuation is done for 100 marks in the answer script and the result announced is for 80 marks by conversion.
3. Check whether the totaling of marks is correct.
4. Check whether marks have been entered against the question no. (including sub- division) in the front page, for all answers written.
5. If you find any mistake/omission/error on any of the item in Sl. No.1 to 4 you are directed to report to your Principal/HOD and to make suitable entry in the menu "Examinations – Revaluation - Photocopy Problem" in <https://coe1.annauniv.edu> within 3 days of receipt of the photocopy of the answer script.
6. Answer scripts are valued by competent examiners who are teachers from other Engineering Colleges.
7. The valuation in the photocopy of the answer script can be verified by the subject expert by valuing the answer script and if the expert is convinced that the script deserves higher marks than awarded, he/she can recommend for applying revaluation in the format given below:

Part A		Part B					
Q.No.	Marks	Q.No.		i	ii	iii	Total
1	00	11	a	04			04
2	00		b				
3		12	a	02	07		09
4			b				
5	00	13	a	10			10
6			b				
7		14	a	10			10
8			b				
9		15	a	06			06
10	00		b				
		16	a				
			b	09			09
Total	00						48
RECOMMENDED/NOT RECOMMENDED						GRAND TOTAL	
Signature		R. ASHA / 7323270				48	
Examiner / Code		7323 / SSM college of Engineering					
College code /Name							
The above recommendation by the subject expert may be retained by the Principal and the same be produced to the Controller of Examinations as and when it is required for further action.							

8. The application for revaluation of answer scripts for the persons obtained photocopy will be intimated after the supply of photocopy.
9. The marks awarded after revaluation which takes into account all aspects of valuation (including omission if any) is final. No representation will be entertained.
10. Photocopy of Revalued Answer Scripts will not be supplied on any account.

732322205045

Sub: BE3251
 Mark: 19
 Coll: 7323
 Zone S No.: 1283

(To be filled in by the candidate)

Date: 01.09.23 Session: FN

Subject Code / Title: BE3251 Basic Electrical & Electronic Engineering

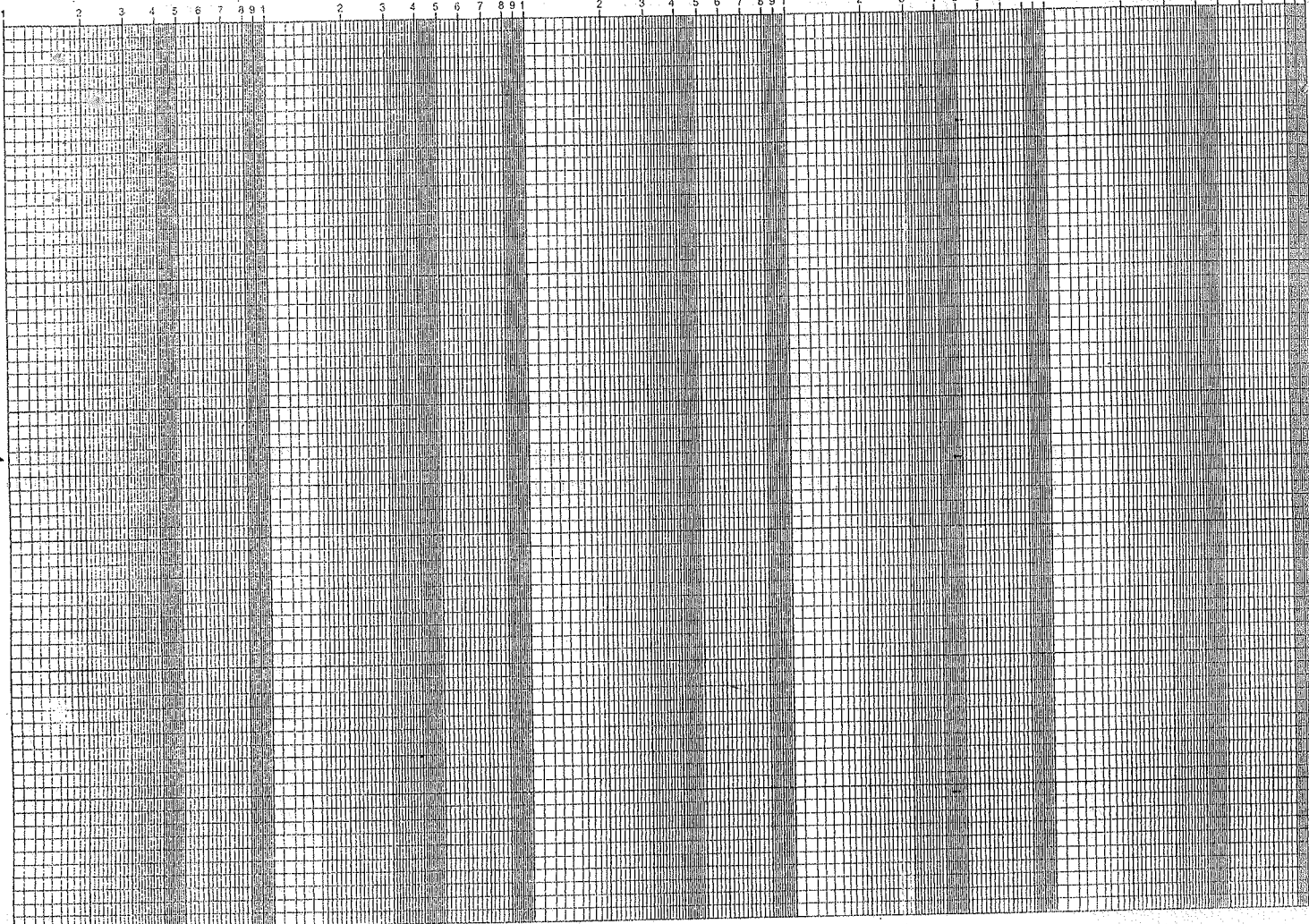
Question Paper Code: 30063 No. of Pages used: 35

Date: 01.09.23 Session: FN Question Paper Code: 30063
 Subject Code / Title: BE3251 Basic Electrical & Electronic Engineering

Instruction to the Candidate: Put a tick mark (✓) for the questions attended in the tick mark column against each question in V-1, V-2 & V-3

PART - A			PART - B & C							Grand Total (in words)	
Question No.	✓	Marks	Question No.	i	i	ii	ii	iii	iii		Total Marks
				✓	Marks	✓	Marks	✓	Marks		
1	✓	0000	11	a	✓	04				0004	ONE NINE
2	✓	0000		b	⊖	00					
3		-	12	a	✓	0002	✓	07		0700	
4		-		b							
5	✓	0000	13	a	✓	0614				0614	
6		-		b							
7		-	14	a	✓	0010				0010	
8		-		b							
9	⊖	-	15	a	✓	0412				0400	
10	⊖	-		b							
10	✓	0000	16	a							
Total		0000		b	✓	0217					0217
GRAND TOTAL										19	RATHINAM SUBASHCHANDRA BOSE HANDRAB

Declaration by the Examiner: Verified that all the questions attended by the student are valued and the total is found to be correct. Date: 2024.04.10 18:04:27+05'30'



PART - A

Q1. Ohm's Law

Ohm's Law states that the potential difference between the two ends of the wire is called Ohm's Law.

Q2. Sol:

1000 V
240 V

$$\text{Percent decrease} = \frac{1000 - 240}{1000} \times 100$$

Q.7.

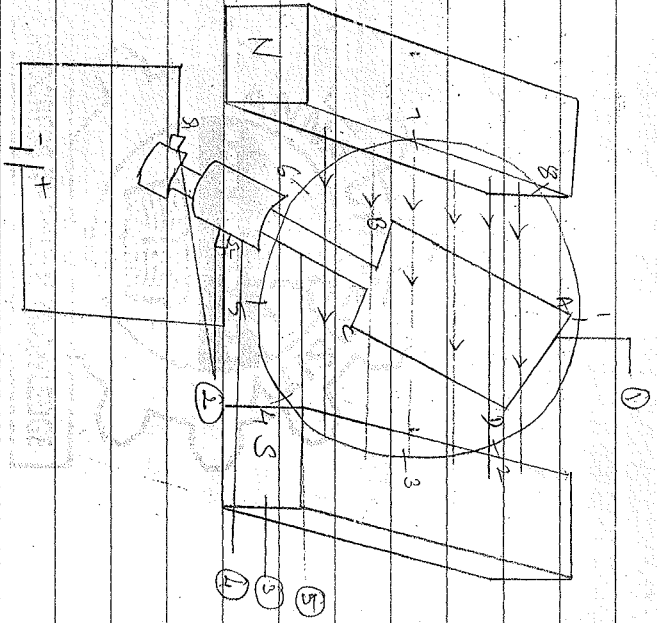
Q.9.

Q.8.

Q.10. Basic elements :

- * Digital
- * Analog
- * Transducers.

Diagram:



- ① ABCD - Rectangular coil
- ② S, S₂ - Slip Rings
- ③ N₁, S₁ = North and South magnetic field coil
- ④ Copper segment
- ⑤ Shaft

These can work on the principle of electromagnetic induction.

Ex. PN Junction Diode:

PN Junction Diode is defined as the joining of P-type material and the N-type material is known as the PN junction diode.

In N-type Material:

Majority Carriers: electrons

And

Minority Carrier: Holes

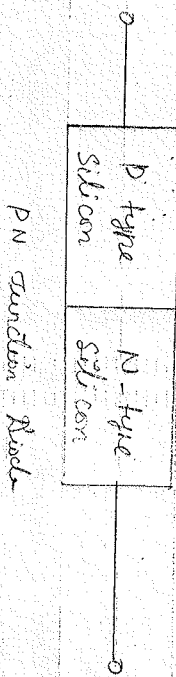
In P-type Material:

Majority Carriers: Holes

And

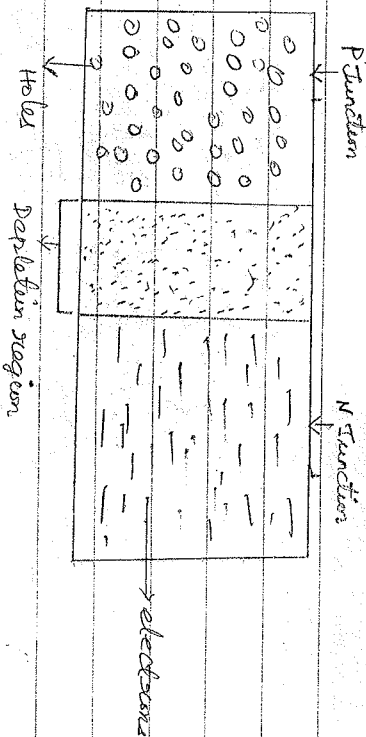
Minority Carriers: electrons

PN Junction Diode



Construction:

* PN Junction consists of the two types of the material p material and the n material



* When the large number of holes moves towards the n region which consists of positive charge.

* In this type the holes having the positive charge and then they will try to move to the n junction

* The holes were moved to n and combine with free electron free electrons to form the immobilized ions.

* The holes were attracted and then combined to form the immobilized ions and then they can produce the number of electrons.

14) Error Detection and Error correction:

This technique used to detect the error correction and Error code using the technique:

$$2^r \geq m + r + 1$$

$$m = 11$$

$$r = 4$$

$$2^4 \geq m + r + 1$$

$$2^4 \geq 11 + 4 + 1$$

$$2^4 \geq 11 + 4 + 1$$

$$16 \geq 16$$

$$\therefore m + r + 1 = 16$$

$$m + r = 16 - 1$$

$$m + r = 15$$

Error Detection and Error correction:

m:	10	9	8	7	6	5	4	3	2	1
m ₁₀	1	0	0	1	0	0	1	0	1	0
m ₉	1	1	0	0	0	0	1	0	1	0
m ₈	1	1	1	0	0	0	1	0	1	0
m ₇	1	1	1	1	0	0	1	0	1	0
m ₆	1	1	1	1	1	0	1	0	1	0
m ₅	1	1	1	1	1	1	1	0	1	0
m ₄	1	1	1	1	1	1	1	1	1	0
m ₃	1	1	1	1	1	1	1	1	1	1
m ₂	1	1	1	1	1	1	1	1	1	1
m ₁	1	1	1	1	1	1	1	1	1	1

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
m_{15}	m_{14}	m_{13}	m_{12}	m_{11}	m_{10}	m_9	m_8	m_7	m_6	m_5	m_4	m_3	m_2	m_1
1	0	0	0	1	0	0	1	1	0	1	0	0	0	0

Received code

After the error detection code 11001001101000 and then received 110010011001000

Calculate C_1, C_2, C_3, C_4

- $C_1 = XOR$ of bit (1,5,9,13,15)
- $C_2 = XOR$ of bit (2,3,6,7,10,11,14,15)
- $C_3 = XOR$ of bit (4,5,6,7,11,12,13,14,15)
- $C_4 = XOR$ of bit (8,9,10,11,12,13,14,15)

Calculate C_1, C_2, C_3, C_4

$$C_1 = 0 \oplus 0 \oplus 0 \oplus 1 \oplus 1 \oplus 0 \oplus 1 \oplus 0 \oplus 1 \oplus 0 = 0$$

$$C_2 = 0 \oplus 0 \oplus 0 \oplus 0 \oplus 0 \oplus 1 \oplus 0 \oplus 0 \oplus 1 \oplus 1 \oplus 0 = 0$$

$$C_3 = 0 \oplus 1 \oplus 0 \oplus 0 \oplus 1 \oplus 0 \oplus 0 \oplus 0 \oplus 1 \oplus 0 \oplus 1 = 1$$

$$C_4 = 1 \oplus 0 \oplus 0 \oplus 0 \oplus 1 \oplus 0 \oplus 0 \oplus 0 \oplus 1 \oplus 0 \oplus 1 = 0$$

where $C_1 C_2 C_3 C_4 = (1100)_{10}$

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
m_{15}	m_{14}	m_{13}	m_{12}	m_{11}	m_{10}	m_9	m_8	m_7	m_6	m_5	m_4	m_3	m_2	m_1
1	1	0	1	1	0	0	1	1	0	1	0	0	0	0

Error detection

Error correction:

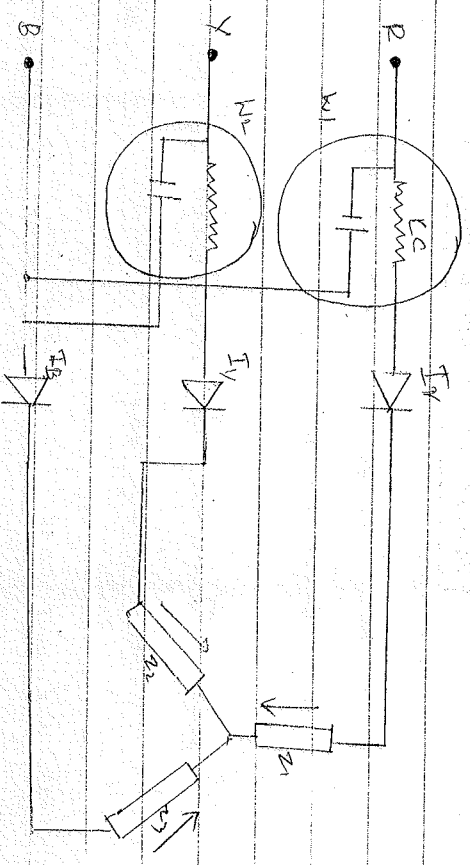
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
m_{15}	m_{14}	m_{13}	m_{12}	m_{11}	m_{10}	m_9	m_8	m_7	m_6	m_5	m_4	m_3	m_2	m_1
1	1	0	0	1	0	0	1	1	0	1	0	0	0	0

Received in Error correction

150) True wattmeter method.

Three phase to the balanced and the unbalanced load

Diagram and circuit

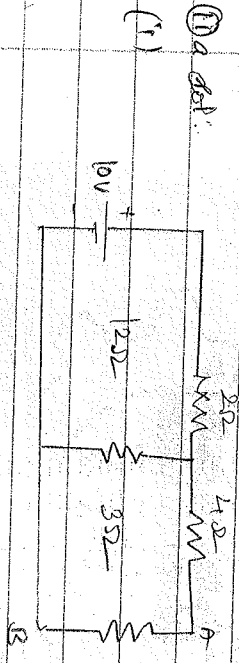


STAR CONNECTION

$$W = 100(2 - i)$$

$$\begin{aligned} W + W_2 &= iE(i - i_2) + iE(i_2 - i) \\ &= iEi + iEi_2 - iEi_2 - iEi \\ &= (iE + iE - iE - iE) \\ &= 0 \end{aligned}$$

P is the total power absorbed by the network



Step 1:

$$\begin{aligned} 10x_1 + 4B(x_1 - x_2) &= 10V \\ 10x_1 + 10x_2 - 4Bx_2 &= 10V \\ E_{PD} - ABx_2 &= 10V \quad \text{--- (1)} \end{aligned}$$

Step 2:

We applying Maxwell's equation

$$\begin{aligned} 2I_2 + A_2(x_2 - x_1) &= -30V \\ 2I_2 + A_1(I_2 - I_1) &= 30V \end{aligned}$$

$$6I_2 - 4A_1I_1 = -20V$$

$$-A_2I_2 + 4A_1I_2 = -20V$$

$$A = \begin{vmatrix} A_2 & 10 \\ -A_2 & -20 \end{vmatrix}$$

$$A = 400$$

$$A_1 = \begin{vmatrix} 10 & -A_2 \\ -30 & 60 \end{vmatrix}$$

$$A_1 = -200$$

$$A_2 = \begin{vmatrix} 20 & 10 \\ -A_2 & -20 \end{vmatrix}$$

$$A_2 = +600$$

Step 4

$$A_1 = \frac{-200}{400}$$

$$I_1 = -0.1428 F$$

$$A_2 = \frac{-600}{400}$$

$$I_2 = -0.4285 A$$

168 Data Acquisition System:

The system required for the data acquisition is known as data acquisition system.

They considered the following analog signals:

* Analog signals are obtained from the electrical equipments D, and D, Voltages, D and D, currents and resistance

* Analog signals are obtained from the transducers such as NDT and thermocouple

Types of Data Acquisition System

* Analogue Data Acquisition System

* Digital Data Acquisition System

Analog Data Acquisition System:

The system obtained through the analog signal is known as the

Analog Data Acquisition System.

Blocks for ^{Analog} Data Acquisition System.

Transducers.

It converts physical quantities into the electrical signals.

Signal Conditioner.

It will function amplifier and the cleaner of the input signals

Display Device.

It will display the monitoring purpose for the input data.

Graphic representation:

It will record the data in the pictorially.

Magnetic tape representation:

It will store the data and the input data.

SSM College of Engineering

Consolidated University Results – Students Performance

Subjects Wise Analysis of Results:

Department : ECE

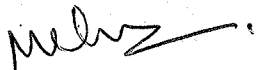
Semester / Year : IV/ II

Branch : ECE

Result of (Period) : APR/MAY'2023

S No	Name of the Subjects	Name of the Staff	No of students attended	No of students Passed	No of students Failed	Pass %
1.	GE3451-Environmental Science and Sustainability	Prof.P.Senthilkumar	32	11	21	34.3%
2.	EC3401-Networks and Security	Dr.K.Balaji	25	22	3	88
3.	EC3451-Linear Integrated Circuits	Ms.G.Revathi	26	4	22	15.3%
4.	EC3452-Electromagnetic Fields	Mr.P.Loganath	23	1	22	4.3%
5.	EC3491-Communication Systems	Mr.R.Rajkumar	25	5	20	20%
6.	EC3492-Digital Signal Processing	Ms. M.Chamundeeswari	22	20	2	90.9%
7.	EC3461-Communication Systems Lab	Mr.R.Rajkumar	32	32	NIL	100%
8.	EC3462-Linear Integrated Circuits Lab	Ms.G.Revathi	35	35	NIL	100%
9.	NaanMudhalvan Couse		38	38	NIL	100%

All Subjects Pass Percentage: NIL



Signature of the Class Incharge



Signature of the HoD

RATHINAM
SUBASHCH
HANDRAB
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Digitally signed by
RATHINAM
SUBASHCHANDRA
BOSE
Location: your
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Date: 2024.04.10
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