NAAC DOCUMENTS

Quality Indicator Frame Work

Criterion – 2

Teaching-Learning and Evaluation

Submitted by

IQAC

Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

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Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Anna University Academic Schedule

Date: 13.06.2018

ANNA UNIVERSITY, CHENNAI
ACADEMIC SCHEDULE
for the
July 2018 – December 2018 ODD SEMESTER ACADEMIC SESSION OF THE
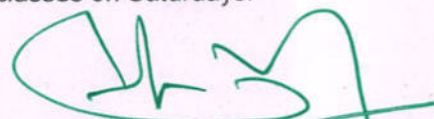### ACADEMIC YEAR 2018 – 2019
UG & PG (Full-Time) Degree Programmes offered at Affiliated Engineering Colleges

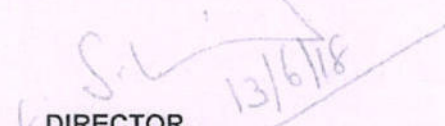| Sl. No	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E. / B. Tech (Full-Time)	III, V, VII				
2	B.E. / B. Tech.(Part-Time)	III, V, VII				
3	B. Arch.(Full-Time)	III, V, VII, IX				
4	M.E. / M. Tech./ M. Arch. (FT)	III	02.07.2018	17.10.2018**	22.10.2018	01.11.2018
5	M.C.A. (Full-Time)	III, V				
6	M.B.A. (Full-Time)	III				
7	M.Sc (5 Yrs - Integrated)	III, V, VII, IX				
8	M.B.A.(5 Yrs – Integrated)	III, V				

RE-OPENING DAY FOR THE NEXT SEMESTER: 17.12.2018 (Monday)

** - In order to ensure minimum no. of working days any 1 Saturday should also be declared as working day

NOTE:

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

Dr. S.THILAGAVATHI M.E., Ph.D.,
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ACADEMIC COURSES

13/6/18

ANNA UNIVERSITY, CHENNAI
ACADEMIC SCHEDULE
for the
September 2018 – December 2018 ODD SEMESTER ACADEMIC SESSION OF THE
ACADEMIC YEAR 2018 – 2019
I SEMESTER

UG (FT) Degree Programmes offered at Affiliated Engineering Colleges

SI. 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)	I	03.09.2018	10.12.2018**	12.12.2018	29.12.2018
2.	B.Arch. (Full-Time)	I				

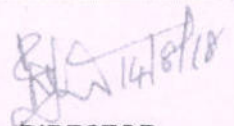RE-OPENING DAY FOR THE NEXT SEMESTER: 28.01.2019 (Monday)

NOTE:

1. Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations).

2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** - In order to ensure minimum no. of working days any 11 Saturdays should also be declared as working days.

SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	15.09.2018	Monday
2.	29.09.2018	Tuesday
3.	06.10.2018	Wednesday
4.	13.10.2018	Thursday
5.	27.10.2018	Friday
6.	03.11.2018	Monday

SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	10.11.2018	Tuesday
8.	17.11.2018	Wednesday
9	24.11.2018	Thursday
10.	01.12.2018	Friday
11.	08.12.2018	Monday

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ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE

ACADEMIC YEAR 2018 – 2019

December 2018 – May 2019 Session (EVEN SEMESTER – Except II Semester)

UG & PG Degree Programmes offered in <u>Affiliated Engineering Colleges</u>

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech (Full-Time)	IV, VI, VIII				
2.	B.E. / B.Tech (Part-Time)	IV, VI				
3.	B.Arch. (Full-Time)	IV, VI, VIII, X				
4.	M.E. / M.Tech./ M.Arch.(FT)	IV	19.12.2018	22.03.2019**	25.03.2019	08.04.2019
5.	M.C.A. (Full-Time)	IV, VI				
6.	M.B.A. (FT)	IV				
7.	M.Sc (5 Yrs-Integrated)	IV, VI, VIII, X				
8.	M.B.A. (5 Yrs-Integrated)	IV, VI				

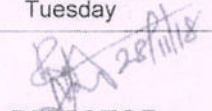### RE - OPENING DAY FOR THE NEXT SEMESTER: <u>01.07.2019 (Monday)</u>

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).

2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following <u>12 Saturdays</u> 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.	22.12.2018	Tuesday	7.	09.02.2019	Tuesday
2.	29.12.2018	Tuesday	8.	16.02.2019	Wednesday
3.	05.01.2019	Tuesday	9.	23.02.2019	Thursday
4.	12.01.2019	Wednesday	10.	02.03.2019	Friday
5.	19.01.2019	Thursday	11.	09.03.2019	Monday
6.	02.02.2019	Monday	12.	16.03.2019	Tuesday

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Date: 20.12.2018

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE

for the

January 2019 – May 2019 (EVEN SEMESTER – II Semester) SESSION OF THE

ACADEMIC YEAR 2018 – 2019

UG & PG Degree Programmes offered in Affiliated Engineering Colleges

SI. 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				
2.	B.Arch. (Full-Time)	II				
3.	M.E. / M.Tech./ M.Arch.(FT)	II				
4.	M.C.A. (Full-Time)	II	21.01.2019	22.04.2019**	24.04.2019	06.05.2019
5.	M.B.A. (FT)	II				
6.	M.Sc (5 Yrs-Integrated)	II				
7.	M.B.A. (5 Yrs-Integrated)	II				

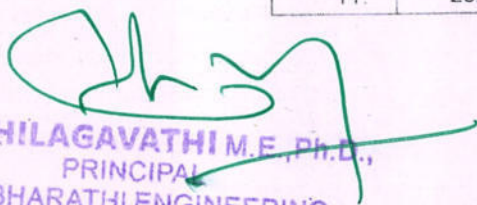RE - OPENING DAY FOR THE NEXT SEMESTER: 01.07.2019 (Monday)
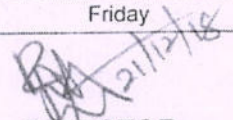
NOTE:

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

** In order to ensure minimum no. of working days, the following 11 Saturdays are declared as working days.

SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1	02.02.2019	Tuesday
2	09.02.2019	Wednesday
3.	16.02.2019	Thursday
4	23.02.2019	Monday
5	02.03.2019	Tuesday

SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
6.	09.03.2019	Wednesday
7.	16.03.2019	Thursday
8.	23.03.2019	Friday
9.	30.03.2019	Monday
10.	13.04.2019	Wednesday
11.	20.04.2019	Friday

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ANNA UNIVERSITY, CHENNAI
ACADEMIC SCHEDULE
for the
July 2019 – December 2019 ODD SEMESTER ACADEMIC SESSION OF THE
ACADEMIC YEAR 2019 – 2020

UG & PG (Full-Time) Degree Programmes offered at Affiliated Engineering Colleges

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)	III, V, VII				
2.	B.E. / B. Tech.(Part-Time)	III, V, VII				
3.	B. Arch.(Full-Time)	III, V, VII, IX				
4.	M.E. / M. Tech./ M. Arch. (FT)	III	01.07.2019	19.10.2019**	21.10.2019	06.11.2019
5.	M.C.A. (Full-Time)	III, V				
6.	M.B.A. (Full-Time)	III				
7.	M.Sc.(5 Yrs - Integrated)	III, V, VII, IX				
8.	M.B.A.(5 Yrs – Integrated)	III, V, VII				

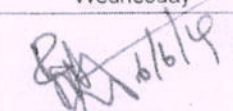RE-OPENING DAY FOR THE NEXT SEMESTER: 16.12.2019 (Monday)

NOTE:

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

** In order to ensure minimum no. of working days, the following 3 Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	03.08.2019	Monday
2.	07.09.2019	Tuesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
3.	19.10.2019	Wednesday

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ANNA UNIVERSITY, CHENNAI
ACADEMIC SCHEDULE
for the
August 2019 – December 2019 ODD SEMESTER ACADEMIC SESSION OF THE
ACADEMIC YEAR 2019 – 2020
I SEMESTER

UG (FT) Degree Programmes offered at <u>Affiliated Engineering Colleges</u>

SI. No.	Programme	Semester	Commencement of Induction Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech. (FT)	I	05.08.2019	14.08.2019	20.11.2019**	22.11.2019	10.12.2019

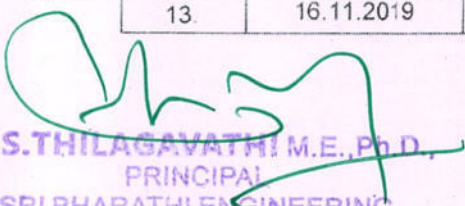RE-OPENING DAY FOR THE NEXT SEMESTER: <u>06.01.2020 (Monday)</u>
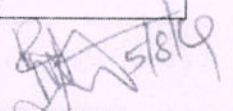
NOTE:

1. Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations).

2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following <u>Saturdays</u> are declared as working days.

SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed	SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	10.08.2019	Monday	7.	05.10.2019	Monday
2.	31.08.2019	Thursday	8.	12.10.2019	Tuesday
3.	07.09.2019	Friday	9.	19.10.2019	Monday
4.	14.09.2019	Monday	10.	26.10.2019	Tuesday
5.	21.09.2019	Tuesday	11.	02.11.2019	Wednesday
6.	28.09.2019	Wednesday	12.	09.11.2019	Thursday
			13.	16.11.2019	Friday

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ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE

ACADEMIC YEAR 2019 – 2020

December 2019 – May 2020 Session (EVEN SEMESTER – Except II Semester)

UG & PG Degree Programmes offered in **Affiliated Engineering Colleges**

SI. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech.(Full-Time)	IV,VI,VIII				
2.	B.E. / B.Tech (Part-Time)	IV,VI				
3.	B.Arch. (Full-Time)	IV,VI,VIII,X				
4.	M.E. / M.Tech./ M.Arch.(FT)	IV	16.12.2019	27.03.2020**	30.03.2020	17.04.2020
5.	M.C.A. (Full-Time)	IV,VI				
6.	M.B.A. (FT)	IV				
7.	M. Sc (5 Yrs-Integrated)	IV,VI,VIII,X				
8.	M.B.A (5 Yrs-Integrated)	IV,VI,VIII				

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.07.2020 (Wednesday)
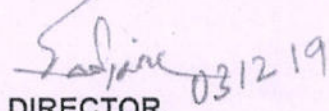
NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).

2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following 6 Saturdays are declared as working days.

SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed	SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	25.01.2020	Wednesday	4.	29.02.2020	Thursday
2.	01.02.2020	Wednesday	5.	07.03.2020	Friday
3.	15.02.2020	Wednesday	6.	21.03.2020	Wednesday

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03/12/19

DIRECTOR
ACADEMIC COURSES

DAC - SB

REVISED

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE

for the

January 2020 – May 2020 (Even Semester – II Semester) Session of the

ACADEMIC YEAR 2019 – 2020

UG Degree Programmes offered in **Affiliated Engineering Colleges**

SI. 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				
2.	B.Arch. (Full-Time)	II	20.01.2020	24.04.2020**	27.04.2020	11.05.2020
3.	B.E / B.Tech. (Part Time)	II				

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.07.2020 (Wednesday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).

2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

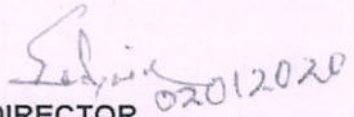** In order to ensure minimum no. of working days, the following 9 Saturdays are declared as working days.

SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed		SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	25.01.2020	Wednesday		6.	21.03.2020	Monday
2.	01.02.2020	Wednesday		7.	28.03.2020	Friday
3.	15.02.2020	Thursday		8.	04.04.2020	Tuesday
4.	29.02.2020	Friday		9.	18.04.2020	Monday
5.	07.03.2020	Wednesday				

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DIRECTOR 02.01.2020
ACADEMIC COURSES

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CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

November 2020 – March 2021 (ODD SEMESTER – I Semester)*

UG (FT) Degree Programmes

Sl. No	Programme	Semester	Commencement of Induction Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech. (Full Time)	I	09.11.2020	23.11.2020	24.02.2021**	26.02.2021	08.03.2021
2.	B. Arch. (Full Time)	I	23.11.2020	30.11.2020	03.03.2021***	05.03.2021	15.03.2021

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

RE-OPENING DAY FOR THE NEXT SEMESTER: 05.04.2021 (Monday)

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

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

Sl. No.	Working Days (Saturdays for UG (FT))	Time Table of the Week Day to be Followed
1	28.11.2020	Monday
2.	05.12.2020	Tuesday
3.	12.12.2020	Wednesday
4.	19.12.2020	Thursday
5.	26.12.2020	Friday
6.	02.01.2021	Friday

Sl. No.	Working Days (Saturdays for UG (FT))	Time Table of the Week Day to be Followed
7.	09.01.2021	Thursday
8.	23.01.2021	Friday
9.	30.01.2021	Tuesday
10.	06.02.2021	Monday
11.	13.02.2021	Tuesday
12.	20.02.2021	Wednesday
13.	27.02.2021***	Thursday

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21.11.2020

DIRECTOR
ACADEMIC COURSES

DAC - SB

Date: 21.01.2021

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

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

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

UG & PG Programmes

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

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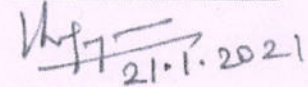
NOTE:

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

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

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed	Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	20.02.2021	Friday	5.	20.03.2021	Monday
2.	27.02.2021	Tuesday	6.	27.03.2021	Tuesday
3.	06.03.2021	Wednesday	7.	03.04.2021	Wednesday
4.	13.03.2021	Friday	8.	10.04.2021	Thursday

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21.1.2021

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

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

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

UG & PG Programmes

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

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

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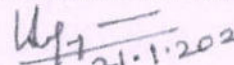
NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).

2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

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

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed	Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	20.02.2021	Friday	7.	03.04.2021	Wednesday
2.	27.02.2021	Tuesday	8.	10.04.2021	Thursday
3.	06.03.2021	Wednesday	9.	17.04.2021	Friday
4.	13.03.2021	Friday	10.	24.04.2021	Monday
5.	20.03.2021	Monday	11.	08.05.2021	Tuesday
6.	27.03.2021	Tuesday	12.	15.05.2021	Wednesday

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21.1.2021
DIRECTOR
ACADEMIC COURSES

DAC - SB

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

April 2021 – July 2021 (EVEN SEMESTER – II Semester)*

UG (FT/PT) 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				
2.	B.Arch. (Full-Time)	II	08.04.2021	08.07.2021**	10.07.2021	22.07.2021
3.	B.E./ B.Tech. (Part Time)	II				

* As per the directives of the Government of Tamil Nadu, the classes will be conducted in ONLINE mode
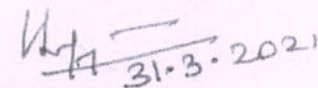
RE-OPENING DAY FOR THE NEXT SEMESTER: 16.08.2021 (MONDAY)

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

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

Sl. No.	Working Days (Saturdays for UG (FT/PT))	Time Table of the Week Day to be Followed
1.	10.04.2021	Thursday
2.	17.04.2021	Friday
3.	24.04.2021	Monday
4.	08.05.2021	Tuesday
5.	15.05.2021	Wednesday
6.	22.05.2021	Thursday

Sl. No.	Working Days (Saturdays for UG (FT/PT))	Time Table of the Week Day to be Followed
7.	29.05.2021	Friday
8.	05.06.2021	Monday
9.	12.06.2021	Tuesday
10.	19.06.2021	Wednesday
11.	26.06.2021	Thursday
12.	03.07.2021	Friday

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31.3.2021

DIRECTOR
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DAC - SB

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON AUTONOMOUS AFFILIATED COLLEGES

August 2021 – December 2021 (ODD SEMESTER)*

<u>UG & PG Programmes</u>

SI. 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)	III, V, VII				
2.	B.E. / B.Tech (Part-Time)	III, V, VII				
3.	B.Arch. (Full-Time)	III, V, VII, IX	18.08.2021	30.11.2021**	02.12.2021	13.12.2021
4.	M.C.A. (Full-Time)	V				
5.	M.Sc (5 Yrs-Integrated)	V, VII, IX				
6.	M.B.A. (5 Yrs-Integrated)	V, VII, IX				

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

RE - OPENING DAY FOR THE NEXT SEMESTER: <u>19.01.2022 (Wednesday)</u>
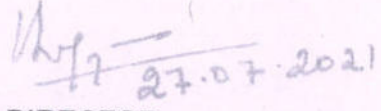
NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).

2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following <u>7 Saturdays</u> are declared as working days.

SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	28.08.2021	Friday
2.	11.09.2021	Monday
3.	25.09.2021	Friday
4.	09.10.2021	Thursday

SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
5.	23.10.2021	Friday
6.	06.11.2021	Tuesday
7.	20.11.2021	Thursday

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27.07.2021

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ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

November 2021 – March 2022 (SEMESTER I)

UG (FT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Induction Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E. / B.Tech. (Full Time)	I	08.11.2021	22.11.2021	08.03.2022	10.03.2022	21.03.2022

RE-OPENING DAY FOR THE NEXT SEMESTER: 18.04.2022 (Monday)

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

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CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

March 2022 – June 2022 (Even Semester – Except Semester II)
UG (FT/PT) 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)	IV,VI,VIII	16.03.2022	16.06.2022**	18.06.2022	28.06.2022
2.	B.E. / B.Tech (Part-Time)	IV,VI				
3.	B.Arch. (Full-Time)	IV,VI,VIII,X				

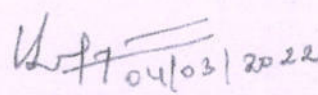RE - OPENING DAY FOR THE NEXT SEMESTER: 10.08.2022 (Wednesday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).

2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

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

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	19.03.2022	Tuesday
2.	26.03.2022	Wednesday
3.	09.04.2022	Thursday
4.	23.04.2022	Friday
5.	30.04.2022	Tuesday
6.	07.05.2022	Monday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	14.05.2022	Tuesday
8.	21.05.2022	Wednesday
9.	28.05.2022	Thursday
10.	04.06.2022	Friday
11.	11.06.2022	Monday

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04/03/2022

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CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

April 2022 – July 2022 (Semester II)

UG (FT/PT) & PG (FT/PT) 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				
2.	B.Arch. (Full-Time)	II				
3.	B.E. / B.Tech (Part-Time)	II	04.04.2022	04.07.2022**	06.07.2022	18.07.2022
4.	M.B.A. (Full-Time & Part-Time)	II				
5.	M.B.A. (5 Yrs-Integrated)	II				

RE - OPENING DAY FOR THE NEXT SEMESTER: 22.08.2022 (Monday)
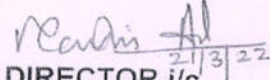
NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).

2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

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

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	09.04.2022	Thursday
2.	23.04.2022	Friday
3.	30.04.2022	Tuesday
4.	07.05.2022	Monday
5.	14.05.2022	Tuesday
6.	21.05.2022	Wednesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	28.05.2022	Thursday
8.	04.06.2022	Friday
9.	11.06.2022	Monday
10.	18.06.2022	Tuesday
11.	25.06.2022	Wednesday
12.	02.07.2022	Thursday

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Kaikkurchi - 622 303, Pudukkottai Dt.

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ACADEMIC COURSES

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

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

August 2022 – December 2022 (ODD SEMESTER – Except Semester III)

UG Programmes

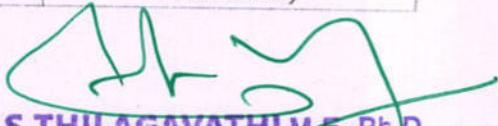| SI. No	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised	Existing	Revised
1	B.E. / B.Tech.(Full-Time)	V, VII	10.08.2022	19.11.2022	06.12.2022**	21.11.2022	18.01.2023	01.12.2022	08.12.2022
2.	B.E. / B.Tech (Part-Time)	V, VII	10.08.2022	19.11.2022	-	21.11.2022	-	01.12.2022	-
3.	B.Arch. (Full-Time)	V, VII, IX							

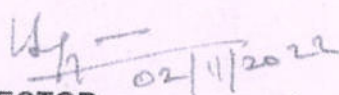RE - OPENING DAY FOR THE NEXT SEMESTER: 30.01.2023 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).

2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

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

SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	20.08.2022	Monday
2.	03.09.2022	Friday
3.	17.09.2022	Wednesday
4.	15.10.2022	Tuesday
5.	29.10.2022	Wednesday

SI. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
6.	05.11.2022	Monday
7.	12.11.2022	Tuesday
8.	19.11.2022	Wednesday
9.	26.11.2022**	Thursday
10.	03.12.2022**	Friday

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DAC - SB

02/11/2022
DIRECTOR
ACADEMIC COURSES

Date: 02.11.2022

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

November 2022 – April 2023 (SEMESTER I)

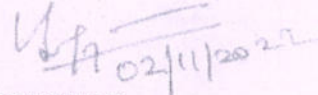#### UG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Induction Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1	B.E. / B.Tech. (Full Time)	I	14.11.2022	28.11.2022	23.03.2023	25.03.2023	05.04.2023
2	B.Arch (Full Time)	I	14.11.2022	28.11.2022	15.03.2023	25.03.2023	05.04.2023
3	B.E. / B.Tech. (Part Time)	I	-	14.11.2022	01.03.2023	25.03.2023	05.04.2023

RE-OPENING DAY FOR THE NEXT SEMESTER: 15.05.2023 (Monday)

NOTE:

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

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02/11/2022

DIRECTOR
ACADEMIC COURSES

DAC - SB

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)

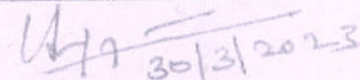* To provide additional classes for Skill Based Courses.

NOTE:

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

** In order to ensure minimum no. of working days, the following 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***

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30/3/2023

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ACADEMIC COURSES

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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				

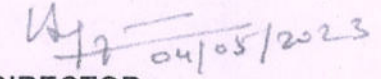RE - OPENING DAY FOR THE NEXT SEMESTER: 11.09.2023 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).

2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following 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

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04/05/2023

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DAC - SB

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)
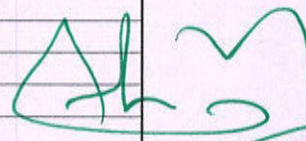
College Academic Calendar

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

COLLEGE ACADEMIC CALENDAR ODD SEMESTER 2018-2019 (II ,III & IV Year)

Jun-18 Date	Day	No of Working Days	Particulars/Event	Jul-18 Date	Day	No of Working Days	Particulars/Event	Aug-18 Date	Day	No of Working Days	Particulars/Event	Sep-18 Date	Day	No of Working Days	Particulars/Event	Oct-18 Date	Day	No of Working Days	Particulars/Event	Nov-18 Date	Day	No of Working Days	Particulars/Event
1	Fri			1	Sun		Holiday	1	Wed	36		1	Sat	61	RM for CIVIL	1	Mon	83	Cycle Test – III for III, V and VII Semester	1	Thurs		Commencement of Theory Examination for III, V & VII Semester
2	Sat		Holiday	2	Mon	11		2	Thurs	37		2	Sun		Krishna Jayanthi-Holiday	2	Tue		Gandhi Jayanthi-Holiday	2	Fri		
3	Sun		Holiday	3	Tue	12		3	Fri	38	Class Committee Meeting - II for III, V and VII Semester	3	Mon	62		3	Wed	84		3	Sat		
4	Mon			4	Wed	13		4	Sat	39		4	Tue	63		4	Thurs	85	Cycle Test – III for III, V and VII Semester	4	Sun		Holiday
5	Tue			5	Thurs	14		5	Sun		Holiday	5	Wed	64		5	Fri	86		5	Mon		
6	Wed			6	Fri	15		6	Mon	40		6	Thurs	65		6	Sat	87	Cycle Test – III for III, V and VII Semester	6	Tue		Diwali-Holiday
7	Thurs			7	Sat		Holiday	7	Tue	41	Submission of CCM-II Report for III, V and VII Semester	7	Fri	66	Cycle Test – II for III, V and VII Semester	7	Sun		Holiday	7	Wed		
8	Fri			8	Sun		Holiday	8	Wed	42		8	Sat	67		8	Mon	88		8	Thurs		
9	Sat		Holiday	9	Mon	16		9	Thurs	43		9	Sun		Holiday	9	Tue	89	Cycle Test – III for III, V and VII Semester	9	Fri		
10	Sun		Holiday	10	Tue	17		10	Fri	44		10	Mon	68	Cycle Test – II for III, V and VII Semester	10	Wed	90		10	Sat		
11	Mon			11	Wed	18		11	Sat	45		11	Tue	69		11	Thurs	91	Cycle Test – III for III, V and VII Semester	11	Sun		Holiday
12	Tue			12	Thurs	19		12	Sun		Holiday	12	Wed			12	Fri	92		12	Mon		
13	Wed			13	Fri	20		13	Mon	46		13	Thurs	70	Vinayakar Chathurthi-Holiday	13	Sat	93	Cycle Test – III for III, V and VII Semester	13	Tue		
14	Thurs			14	Sat	21	CCM - I for III, V and VII Semester	14	Tue	47		14	Fri	71		14	Sun		Holiday	14	Wed		
15	Fri			15	Sun		Holiday	15	Wed		Independence Day	15	Sat	72	RM for ECE	15	Mon	94		15	Thurs		
16	Sat		Ramzan-Holiday	16	Mon	22		16	Thurs	48		16	Sun		Holiday	16	Tue	95	Cycle Test – III for III, V and VII Semester	16	Fri		
17	Sun		Holiday	17	Tue	23	Submission of CCM-I Report for III, V and VII Semester	17	Fri	49		17	Mon	73		17	Wed	96	Last Working Day for III, V & VII Semester	17	Sat		
18	Mon	1	Commencement of Classes for III, V & VII Semester/VAC for II,III & IV Year-IQAC Meeting	18	Wed	24	Life skill program for II, III & IV year	18	Sat	50	IPR Program	18	Tue	74		18	Thurs		Pooja-Holiday	18	Sun		Holiday
19	Tue	2	VAC for II,III & IV Year	19	Thurs	25		19	Sun		Holiday	19	Wed	75		19	Fri			19	Mon		
20	Wed	3	VAC for II,III & IV Year	20	Fri	26	RM for EEE	20	Mon	51		20	Thurs	76		20	Sat		Holiday	20	Tue		
21	Thurs	4	VAC for II,III & IV Year	21	Sat	27		21	Tue	52		21	Fri		Moharram-Holiday	21	Sun			21	Wed		Miladi Nabi-Holiday
22	Fri	5	VAC for II,III & IV Year	22	Sun		Holiday	22	Wed		Bakrid-Holiday	22	Sat		Holiday	22	Mon		Commencement of Practical Examination for III, V & VII Semester	22	Thurs		
23	Sat		Holiday	23	Mon	28		23	Thurs	53		23	Sun		Holiday	23	Tue			23	Fri		
24	Sun		Holiday	24	Tue	29		24	Fri	54		24	Mon	77		24	Wed			24	Sat		
25	Mon	6		25	Wed	30		25	Sat	55	RM for ECE	25	Tue	78		25	Thurs			25	Sun		Holiday
26	Tue	7		26	Thurs	31		26	Sun		Holiday	26	Wed	79		26	Fri			26	Mon		
27	Wed	8		27	Fri	32		27	Mon	56		27	Thurs	80		27	Sat			27	Tue		
28	Thurs	9		28	Sat	33	Cycle Test – I for III, V and VII Semester	28	Tue	57		28	Fri	81	RM for CSE	28	Sun		Holiday	28	Wed		
29	Fri	10		29	Sun		Holiday	29	Wed	58		29	Sat	82		29	Mon			29	Thurs		
30	Sat		Holiday	30	Mon	34		30	Thurs	59		30	Sun		Holiday	30	Tue			30	Fri		
				31	Tue	35	Cycle Test – I for III, V and VII Semester	31	Fri	60	Life skill program for all years					31	Wed						

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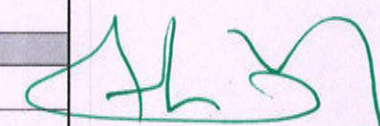
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

COLLEGE - ACADEMIC CALENDAR EVEN SEMESTER 2018-2019 (II,III & IV YEAR)

Dec-18 Date	Day	No of Working	Particulars/Event	Jan-19 Date	Day	No of Working	Particulars/Event	Feb-19 Date	Day	No of Working	Particulars/Event	Mar-19 Date	Day	No of Working	Particulars/Event	Apr-19 Date	Day	No of Working	Particulars/Event
1	Sat			1	Tue		New Year- Holiday	1	Fri	33		1	Fri	57	ICT for III & IV year	1	Mon		
2	Sun		Holiday	2	Wed	11	CCM - I for IV, VI and VIII Semester	2	Sat	34		2	Sat	58	National Conference	2	Tue		
3	Mon			3	Thurs	12		3	Sun		Holiday	3	Sun		Holiday	3	Wed		
4	Tue			4	Fri	13		4	Mon	35		4	Mon	59	RM for CSE	4	Thurs		IPR Program
5	Wed			5	Sat	14	Submission of CCM-I Report for IV, VI and VIII Semester	5	Tue	36		5	Tue	60		5	Fri		
6	Thurs		IQAC Meeting	6	Sun		Holiday	6	Wed	37		6	Wed	61		6	Sat		Telugu New Year
7	Fri			7	Mon	15		7	Thurs	38		7	Thurs	62		7	Sun		Holiday
8	Sat			8	Tue	16		8	Fri	39	Cycle Test – II for IV,VI and VIII Semester	8	Fri	63	International Women's Day	8	Mon		Commencement of Theory Examination for IV,VI and
9	Sun		Holiday	9	Wed	17		9	Sat	40		9	Sat	64		9	Tue		
10	Mon		VAC	10	Thurs	18		10	Sun		Holiday	10	Sun		Holiday	10	Wed		
11	Tue		VAC	11	Fri	19	Cycle Test – I for VI and VIII Semester	11	Mon	41	Cycle Test – II for IV,VI and VIII Semester	11	Mon	65	III for IV, VI and VIII Semester / IPR Program for	11	Thurs		
12	Wed		VAC	12	Sat	20		12	Tue	42		12	Tue	66	Cycle Test – III for IV,VI and VIII Semester	12	Fri		
13	Thurs		VAC	13	Sun		Holiday	13	Wed	43	RM for EEE	13	Wed	67	Cycle Test – III for IV,VI and VIII Semester	13	Sat		
14	Fri		VAC	14	Mon	21		14	Thurs	44		14	Thurs	68	Submission of CCM-III Report for IV, VI and VIII	14	Sun		Holiday
15	Sat			15	Tue			15	Fri	45		15	Fri	69	Cycle Test – III for IV,VI and VIII Semester	15	Mon		
16	Sun		Holiday	16	Wed		Pongal-Holiday	16	Sat	46	RM for CIVIL	16	Sat	70	Cycle Test – III for IV,VI and VIII Semester	16	Tue		
17	Mon			17	Thurs			17	Sun		Holiday	17	Sun		Holiday	17	Wed		
18	Tue			18	Fri	22		18	Mon	47	languge and communication skills	18	Mon	71	Cycle Test – III for IV,VI and VIII Semester	18	Thurs		
19	Wed	1	Classes for IV, VI & VIII Semester	19	Sat	23	Cycle Test – I for IV,VI and VIII Semester	19	Tue	48	Soft Skill Training Program for II,III& IV	19	Tue	72		19	Fri		
20	Thurs	2		20	Sun		Holiday	20	Wed	49		20	Wed	73		20	Sat		
21	Fri	3		21	Mon	24	Cycle Test – I for IV Semester and Commencement of Classes for II Semester	21	Thurs	50		21	Thurs	74		21	Sun		Holiday
22	Sat	4		22	Tue	25		22	Fri	51		22	Fri	75	Last working day for IV,VI, VIII sem	22	Mon		
23	Sun		Holiday	23	Wed	26		23	Sat	52		23	Sat			23	Tue		
24	Mon	5		24	Thurs	27		24	Sun		Holiday	24	Sun		Holiday	24	Wed		
25	Tue		Christmas-Holiday	25	Fri	28	Meeting - II for IV, VI and VIII Semester	25	Mon	53		25	Mon		Examination for IV,VI and VIII Semester	25	Thurs		
26	Wed	6		26	Sat		Republic Day-Holiday	26	Tue	54		26	Tue			26	Fri		
27	Thurs	7		27	Sun		Holiday	27	Wed	55		27	Wed			27	Sat		
28	Fri	8		28	Mon	29		28	Thurs	56		28	Thurs			28	Sun		Holiday
29	Sat	9		29	Tue	30	Submission of CCM-II Report for IV, VI and					29	Fri			29	Mon		
30	Sun		Holiday	30	Wed	31						30	Sat			30	Tue		
31	Mon	10		31	Thurs	32						31	Sun		Holiday				

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ACADEMIC CALENDAR ODD SEMESTER 2019-2020(II, III & IV year)

Jun-19				Jul-19				Aug-19				Sep-19				Oct-19				Nov-19			
Date	Day	No of working days	Particulars/Event	Date	Day	No of working days	Particulars/Event	Date	Day	No of working days	Particulars/Event	Date	Day	No of working days	Particulars/Event	Date	Day	No of working days	Particulars/Event	Date	Day	No of working days	Particulars/Event
1	Sat			1	Mon	1	Commencement of Classes for III, V & VII Semester	1	Thurs	28		1	Sun		Holiday	1	Tue	75		1	Fri		
2	Sun		Holiday	2	Tue	2		2	Fri	29	Submission of CCM-II Report for III, V and VII Semester	2	Mon		Vinayakar Chathurthi-Holiday	2	Wed		Gandhi Jayanthi Holiday	2	Sat		
3	Mon			3	Wed	3		3	Sat	30		3	Tue	52	Cycle Test = II for III, V and VII Semester	3	Thurs	76	Cycle Test = III for III, V and VII Semester	3	Sun		Holiday
4	Tue			4	Thurs	4		4	Sun		Holiday	4	Wed	53	Cycle Test = II for III, V and VII Semester & Submission of CCM-1	4	Fri	77		4	Mon		
5	Wed		Ramzan Holiday	5	Fri	5		5	Mon	31		5	Thurs	54		5	Sat	78		5	Tue		IPR Program
6	Thurs			6	Sat	6		6	Tue	32		6	Fri	55		6	Sun		Holiday	6	Wed		Commencement of University Theory Examination for III, V & VII Semester
7	Fri			7	Sun		Holiday	7	Wed	33		7	Sat	56		7	Mon			7	Thurs		
8	Sat			8	Mon	7		8	Thurs	34		8	Sun		Holiday	8	Tue		Pooja-Holiday	8	Fri		
9	Sun		Holiday	9	Tue	8		9	Fri	35		9	Mon	57		9	Wed	79		9	Sat		
10	Mon			10	Wed	9		10	Sat	36		10	Tue		Moharram - Holiday	10	Thurs	80	Cycle Test = III for III, V and VII Semester	10	Sun		Milad-In-Nabi Holiday
11	Tue			11	Thurs	10		11	Sun		Holiday	11	Wed	58		11	Fri	81		11	Mon		
12	Wed			12	Fri	11	First Class Committee Meeting for III, V and VII Semester	12	Mon		Bakrid-Holiday	12	Thurs	59		12	Sat	82	Cycle Test = III for III, V and VII Semester	12	Tue		
13	Thurs			13	Sat	12		13	Tue	37		13	Fri	60		13	Sun		Holiday	13	Wed		
14	Fri			14	Sun		Holiday	14	Wed	38		14	Sat	61		14	Mon	83		14	Thurs		
15	Sat			15	Mon	13		15	Thurs		Independence Day - Holiday	15	Sun		Holiday	15	Tue	84		15	Fri		
16	Sun		Holiday	16	Tue	14	Submission of CCM-I Report for III, V and VII Semester	16	Fri	39		16	Mon	62		16	Wed	85	Cycle Test = III for III, V and VII Semester	16	Sat		
17	Mon			17	Wed	15		17	Sat	40		17	Tue	63		17	Thurs	86		17	Sun		Holiday
18	Tue			18	Thurs	16		18	Sun		Holiday	18	Wed	64		18	Fri	87		18	Mon		
19	Wed			19	Fri	17		19	Mon	41		19	Thurs	65		19	Sat	88	Last Working Day for III, V & VII Semester	19	Tue		
20	Thurs			20	Sat	18		20	Tue	42		20	Fri	66		20	Sun		Holiday	20	Wed		
21	Fri			21	Sun		Holiday	21	Wed	43		21	Sat	67		21	Mon		&commencement of University Practical Examination for III, V & VII Semester	21	Thurs		
22	Sat			22	Mon	19		22	Thurs	44		22	Sun		Holiday	22	Tue			22	Fri		
23	Sun		Holiday	23	Tue	20	Cycle Test = I for III, V and VII Semester	23	Fri	45		23	Mon	68		23	Wed			23	Sat		Holiday
24	Mon		VAC for II,III & IV Year	24	Wed	21		24	Sat		Krishna Jayanthi-Holiday	24	Tue	69	Life skill Program for all Years	24	Thurs	92		24	Sun		Holiday
25	Tue		VAC for II,III & IV Year	25	Thurs	22		25	Sun		Holiday	25	Wed	70		25	Fri	93		25	Mon		
26	Wed		VAC for II,III & IV Year	26	Fri	23		26	Mon	46		26	Thurs	71		26	Sat		RM for CSE	26	Tue		
27	Thurs		VAC for II,III & IV Year	27	Sat	24		27	Tue	47	Cycle Test = II for III, V and VII Semester	27	Fri	72		27	Sun		Diwali-Holiday	27	Wed		
28	Fri		VAC for II,III & IV Year	28	Sun		Holiday	28	Wed	48		28	Sat	73	RM for CIVIL	28	Mon			28	Thurs		
29	Sat		Holiday	29	Mon	25		29	Thurs	49		29	Sun		Holiday	29	Tue			29	Fri		
30	Sun		Holiday	30	Tue	26		30	Fri	50		30	Mon	74		30	Wed			30	Sat		
				31	Wed	27	Second Class Committee Meeting for III, V and VII Semester	31	Sat	51						31	Thurs						

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

COLLEGE ACADEMIC CALENDAR EVEN SEMESTER- 2019-2020(II, III & IV year)

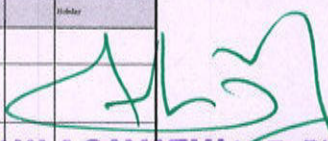| Dec-19 Date	Day	No of Working days	Particulars/Event	Jan-20 Date	Day	No of Working days	Particulars/Event	Feb-20 Date	Day	No of Working days	Particulars/Event	Mar-20 Date	Day	No of Working days	Particulars/Event	Apr-20 Date	Day	No of Working days	Particulars/Event
1	Sun		Holiday	1	Wed		New Year- Holiday	1	Sat	39		1	Sun		Holiday	1	Wed	89	Holiday
2	Mon			2	Thurs	18		2	Sun		Holiday	2	Mon	64		2	Thurs	90	
3	Tue			3	Fri	19	Submission of CCM-I Report for IV, VI and VIII Semester	3	Mon	40	Second Class Committee Meeting for IV, VI and VIII Semester	3	Tue	65		3	Fri	91	
4	Wed			4	Sat	20		4	Tue	41		4	Wed	66		4	Sat	92	
5	Thurs			5	Sun		Holiday	5	Wed	42		5	Thurs	67		5	Sun		Holiday
6	Fri			6	Mon	21		6	Thurs	43	Submission of CCM-II Report for IV, VI and VIII Semester	6	Fri	68	International Women's Day	6	Mon		Mahaveer Jayanti-Holiday
7	Sat		Holiday	7	Tue	22		7	Fri	44		7	Sat	69		7	Tue	93	
8	Sun		Holiday	8	Wed	23		8	Sat	45		8	Sun		Holiday	8	Wed	94	
9	Mon	1	Commencement of Classes for IV, VI & VIII Semester VAC for II,III&IV Year	9	Thurs	24		9	Sun		Holiday	9	Mon	70		9	Thurs	95	
10	Tue	2	VAC for II,III&IV Year	10	Fri	25		10	Mon	46	soft skill Training for II,III & IV Year	10	Tue	71		10	Fri		Good Friday-Holiday
11	Wed	3	VAC for II,III&IV Year	11	Sat	26		11	Tue	47		11	Wed	72		11	Sat	96	
12	Thurs	4	VAC for II,III&IV Year	12	Sun		Holiday	12	Wed	48		12	Thurs	73	life skill Program for all Students	12	Sun		Holiday
13	Fri	5	VAC for II,III&IV Year	13	Mon	27	RM for EEE	13	Thurs	49		13	Fri	74		13	Mon	97	
14	Sat	6	VAC for II,III&IV Year/Faculty Development Program	14	Tue	28		14	Fri	50	language and communication Program for II, III and IV year	14	Sat	75	RM for ECE	14	Tue		Tamil New Year -Holiday
15	Sun		Holiday	15	Wed			15	Sat	51		15	Sun		Holiday	15	Wed	98	
16	Mon	7		16	Thurs		Pongal-Holiday	16	Sun		Holiday	16	Mon	76		16	Thurs	99	
17	Tue	8		17	Fri			17	Mon	52	RM for CIVIL	17	Tue	77	Cycle Test-III for IV, VI & VIII Semester	17	Fri	100	Commencement of University Theory Examination for IV, VI and VIII Semester
18	Wed	9		18	Sat		Holiday	18	Tue	53		18	Wed	78		18	Sat	101	
19	Thurs	10		19	Sun		Holiday	19	Wed	54		19	Thurs	79	Cycle Test-III for IV, VI & VIII Semester	19	Sun		Holiday
20	Fri	11		20	Mon	29		20	Thurs	55		20	Fri	80		20	Mon	102	
21	Sat		Holiday	21	Tue	30		21	Fri	56	National Conference	21	Sat	81	Cycle Test-III for IV, VI & VIII Semester	21	Tue	103	
22	Sun		Holiday	22	Wed	31		22	Sat	57	Cycle Test – II for IV,VI and VIII Semester	22	Sun		Holiday	22	Wed	104	
23	Mon	12		23	Thurs	32		23	Sun		Holiday	23	Mon	82	Cycle Test-III for IV, VI & VIII Semester	23	Thurs	105	
24	Tue	13		24	Fri	33	Cycle Test – I for IV, VI and VIII Semester	24	Mon	58		24	Tue	83	Cycle Test-III for IV, VI & VIII Semester	24	Fri	106	
25	Wed		Christmas - Holiday	25	Sat		Holiday/Faculty Development Program	25	Tue	59		25	Wed		Telugu New Year's Day-Holiday	25	Sat		Holiday
26	Thurs	14		26	Sun		Republic Day-Holiday	26	Wed	60	Cycle Test – II for IV,VI and VIII Semester	26	Thurs	84	Cycle Test-III for IV, VI & VIII Semester	26	Sun		Holiday
27	Fri	15		27	Mon	34		27	Thurs	61		27	Fri	85	Last working day for IV,VI, VIII sem	27	Mon		
28	Sat	10		28	Tue	35		28	Fri	62		28	Sat	86		28	Tue		
29	Sun		Holiday	29	Wed	36	Cycle Test – I for IV, VI and VIII Semester	29	Sat	63		29	Sun		Holiday	29	Wed		
30	Mon	16	First Class Committee Meeting for IV, VI & VIII Semester	30	Thurs	37						30	Mon	87	Commencement of University Practical Examination for IV, VI and VIII Semester	30	Thurs		
31	Tue	17		31	Fri	38						31	Tue	88					

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COLLEGE - ACADEMIC CALENDAR- ODD SEMESTER 2020-2021 -(II , III & IV Year)

Aug-20 Date	Day	No of Working Days	Particulars Event	Sep-20 Date	Day	No of Working Days	Particulars Event	Oct-20 Date	Day	No of Working Days	Particulars Event	Nov-20 Date	Day	No of Working Days	Particulars Event	Dec-20 Date	Day	No of Working Days	Particulars Event
1	Sat		Bakrid-Holiday	1	Tue	16		1	Thurs	41		1	Sun		Holiday	1	Tue		VAC for II,III & IV Year
2	Sun		Holiday	2	Wed	17	Cycle Test – I for III, V and VII Semester	2	Fri		Gandhi Jayanthi Holiday	2	Mon	63		2	Wed		VAC for II,III & IV Year
3	Mon			3	Thurs	18		3	Sat	42		3	Tue	64		3	Thurs		Class Committee Meeting - I for I Semester/VAC for II,III & IV Year
4	Tue		IQAC Meeting	4	Fri	19		4	Sun		Holiday	4	Wed	65		4	Fri		VAC for II,III & IV Year
5	Wed			5	Sat	20		5	Mon	43		5	Thurs	66		5	Sat		VAC for II,III & IV year
6	Thurs			6	Sun		Holiday	6	Tue	44		6	Fri	67		6	Sun		Holiday
7	Fri			7	Mon	21	Class Committee Meeting - II for III, V and VII Semester	7	Wed	45		7	Sat	68		7	Mon		Submission of CCM-I Report for I Semester/life skills programme for All Year Students
8	Sat			8	Tue	22		8	Thurs	46		8	Sun		Holiday	8	Tue		
9	Sun		Holiday	9	Wed	23		9	Fri	47	IPR Program	9	Mon	69	Commencement of Induction Programme for I Year	9	Wed		
10	Mon			10	Thurs	24	Submission of CCM-II Report for III, V and VII Semester	10	Sat	48		10	Tue	70		10	Thurs		Soft Skill Training Programme for I year Through Online
11	Tue		Krishna Jayanthi-Holiday	11	Fri	25		11	Sun		Holiday	11	Wed	71		11	Fri		
12	Wed	1	Commencement of Classes for III, V & VII Semester	12	Sat	26		12	Mon	49		12	Thurs	72		12	Sat		
13	Thurs	2		13	Sun		Holiday	13	Tue	50		13	Fri	73	Last Working Day for III, V & VII Semester	13	Sun		Holiday
14	Fri	3		14	Mon	27		14	Wed	51		14	Sat		Diwali holiday	14	Mon		
15	Sat		Independence Day	15	Tue	28		15	Thurs	52		15	Sun		Holiday	15	Tue		
16	Sun		Holiday	16	Wed	29		16	Fri	53	Cycle Test – III for III, V and VII Semester	16	Mon			16	Wed		
17	Mon	4		17	Thurs	30		17	Sat	54		17	Tue		Commencement of University Practical Examination for III, V & VII Semester	17	Thurs		
18	Tue	5		18	Fri	31		18	Sun		Holiday	18	Wed			18	Fri		
19	Wed	6		19	Sat	32		19	Mon	55		19	Thurs			19	Sat		
20	Thurs	7		20	Sun		Holiday	20	Tue	56		20	Fri			20	Sun		Holiday
21	Fri	8		21	Mon	33		21	Wed	57		21	Sat			21	Mon		
22	Sat		Vinayakar Chathurthi-Holiday	22	Tue	34		22	Thurs	58		22	Sun		Holiday	22	Holiday Tue		
23	Sun		Holiday	23	Wed	35		23	Fri	59		23	Mon			23	Wed		
24	Mon	9		24	Thurs	36		24	Sat		Holiday	24	Tue			24	Thurs		
25	Tue	10		25	Fri	37	Cycle Test – II for III, V and VII Semester	25	Sun		Pooja-Holiday	25	Wed			25	Fri		Christmas
26	Wed	11	Class Committee Meeting - I for III, V and VII Semester	26	Sat	38		26	Mon			26	Thurs		University Theory Examination for III, V & VII Semester	26	Sat	11	Class Committee Meeting - I for VIII Semester
27	Thurs	12		27	Sun		Holiday	27	Tue	60		27	Fri			27	Sun		Holiday
28	Fri	13		28	Mon	39		28	Wed	61		28	Sat			28	Mon	12	
29	Sat	14	Submission of CCM-I Report for III, V and VII Semester	29	Tue	40		29	Thurs	62		29	Sun		Holiday	29	Tue	13	Class Committee Meeting - II for I Semester
30	Sun		Holiday	30	Wed		Moharram-Holiday	30	Fri		Milad I nabi-Holiday	30	Mon		VAC for II,III & IV Year	30	Wed	14	Submission of CCM-I Report for VIII Semester
31	Mon	15						31	Sat		Holiday					31	Thurs	15	

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
COLLEGE - ACADEMIC CALENDAR EVEN SEMESTER 2020-2021 (II, III & IV YEAR)

Dec-20 Date	Day	No of Working Days	Particulars Event	Jan-21 Date	Day	No of Working Days	Particulars Event	Feb-21 Date	Day	No of Working Days	Particulars Event	Mar-21 Date	Day	No of Working Days	Particulars Event	Apr-21 Date	Day	No of Working Days	Particulars Event	May-21 Date	Day	No of Working Days	Particulars Event	Jun-21 Date	Day	No of Working Days	Particulars Event
1	Tue			1	Fri		New Year Holiday	1	Mon	36		1	Mon	60	Cycle Test – I for VIII Semester	1	Thurs	85		1	Sat		May Day Holiday	1	Tue		
2	Wed			2	Sat			2	Tue	37	IQAC Meeting	2	Tue	61		2	Fri		Good Friday-Holiday	2	Sun		Holiday	2	Wed		Commencement of University Theory Examinations for IV &
3	Thurs			3	Sun		Holiday	3	Wed	38	IPR Program	3	Wed	62	First Class Committee Meeting for IV, VI Semester	3	Sat	86		3	Mon	60		3	Thurs		
4	Fri			4	Mon	16	Submission of CCM-II Report for I Semester	4	Thurs	39		4	Thurs	63		4	Sun		Holiday	4	Tue	61		4	Fri		
5	Sat			5	Tue	17		5	Fri	40	National Conference	5	Fri	64	Second Class Committee Meeting for VIII Semester	5	Mon	87		5	Wed	62		5	Sat		
6	Sun		Holiday	6	Wed	18		6	Sat	41		6	Sat	65	Submission of CCM-I Report for IV & VI Semester	6	Tue	88		6	Thurs	63		6	Sun		Holiday
7	Mon			7	Thurs	19		7	Sun		Holiday	7	Sun		Holiday	7	Wed	89		7	Fri	64		7	Mon		
8	Tue			8	Fri	20		8	Mon	42		8	Mon	66	International Women's Day	8	Thurs	90		8	Sat	65		8	Tue		
9	Wed			9	Sat	21		9	Tue	43		9	Tue	17		9	Fri	91	Cycle Test – III for VIII Semester	9	Sun		Holiday	9	Wed		
10	Thurs			10	Sun		Holiday	10	Wed	44		10	Wed	18	Submission of CCM-2 Report for VIII Semester	10	Sat	92	Cycle Test – III for VIII Semester	10	Mon	66		10	Thurs		
11	Fri			11	Mon	22		11	Thurs	45		11	Thurs	67		11	Sun		Holiday	11	Tue	67		11	Fri		
12	Sat			12	Tue	23		12	Fri	46		12	Fri	68		12	Mon	93	Last Working for VIII Semester	12	Wed	68		12	Sat		
13	Sun		Holiday	13	Wed	24		13	Sat	47		13	Sat	69		13	Tue		Telugu New Year	13	Thurs	69		13	Sun		Holiday
14	Mon	1	Commencement of Classes for IV Year	14	Thurs			14	Sun		Holiday	14	Sun		Holiday	14	Wed		Tamil New Year	14	Fri		Ramzan-Holiday	14	Mon		
15	Tue	2		15	Fri		Pongal Holiday	15	Mon	48		15	Mon	70		15	Thurs	46 (II)	Commencement of University Practical Examinations for VIII Semester	15	Sat		Holiday	15	Tue		
16	Wed	3		16	Sat			16	Tue	49		16	Tue	71		16	Fri	47		16	Sun		Holiday	16	Wed		
17	Thurs	4		17	Sun			17	Wed	50		17	Wed	72		17	Sat	48		17	Mon	70		17	Thurs		
18	Fri	5		18	Mon	25		18	Thurs	51	Classes Starts for IV and VI Semester	18	Thurs	73		18	Sun		Holiday	18	Tue	71		18	Fri		
19	Sat	6		19	Tue	26		19	Fri	52	Soft Skill Training Programme for II,III& IV year Through Online	19	Fri	74	Cycle Test – II for VIII Semester & Cycle Test – I for IV & VI Semester	19	Mon	49		19	Wed	72		19	Sat		
20	Sun		Holiday	20	Wed	27		20	Sat	53		20	Sat	75		20	Tue	50	Cycle Test – II for IV & VI Semester	20	Thurs	73		20	Sun		Holiday
21	Mon	7		21	Thurs	28		21	Sun		Holiday	21	Sun		Holiday	21	Wed	51		21	Fri	74	Last Working Day for IV & VI	21	Mon		
22	Tue	8		22	Fri	29		22	Mon	54		22	Mon	76	Cycle Test – I for IV & VI Semester	22	Thurs	52		22	Sat			22	Tue		
23	Wed	9		23	Sat	30		23	Tue	55		23	Tue	77		23	Fri	53		23	Sun		Holiday	23	Wed		
24	Thurs	10		24	Sun		Holiday	24	Wed	56		24	Wed	78		24	Sat	54	RM for EEE & CIVIL	24	Mon		Commencement of University Practical Examinations for IV & VI Semester	24	Thurs		
25	Fri		Christmas	25	Mon	31		25	Thurs	57		25	Thurs	79		25	Sun		Mahavir Jayanthi-Holiday	25	Tue			25	Fri		
26	Sat	11	Class Committee Meeting - I for VIII Semester	26	Tue		Republic Day -Holiday	26	Fri	58	Commencement of University Practical Examinations for I Semester	26	Fri	80	Second Class Committee Meeting for IV, VI Semester	26	Mon	55	Commencement of Theory Examinations for VIII Semester VAC for II,III and IV year	26	Wed			26	Sat		
27	Sun		Holiday	27	Wed	32		27	Sat	59		27	Sat	81		27	Tue	56	VAC for II,III and IV year	27	Thurs			27	Sun		Holiday
28	Mon	12		28	Thurs	33		28	Sun		Holiday	28	Sun		Holiday	28	Wed	57		28	Fri			28	Mon		
29	Tue	13	Class Committee Meeting - II for I Semester	29	Fri	34						29	Mon	82	Second Class Committee Meeting for IV, VI Semester	29	Thurs	58	VAC for II,III and IV year	29	Sat			29	Tue		
30	Wed	14	Submission of CCM-I Report for VIII Semester	30	Sat	35						30	Tue	83	Submission of CCM-I Report for VI & IV Semester	30	Fri	59		30	Sun		Holiday	30	Wed		
31	Thurs	15		31	Sun		Holiday					31	Wed	84						31	Mon						

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COLLEGE - ACADEMIC CALENDAR ODD SEMESTER 2021-2022 (II, III & IV YEAR)

Aug-21				Sep-21				Oct-21				Nov-21				Dec-21			
Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event
1	Sun		Holiday	1	Wed	11	First CCM for III, V & VII Semester	1	Fri	36		1	Mon	57	Third CCM for III, V & VII Semester	1	Wed		
2	Mon			2	Thurs	12		2	Sat		Gandhi Jayanthi-Holiday	2	Tue	58		2	Thurs		Commencement of University Practical Examinations for III, V & VII Semester
3	Tue			3	Fri	13		3	Sun		Holiday	3	Wed	59		3	Fri		
4	Wed			4	Sat	14	Submission of CCM-1 Report for III, V & VII Semester	4	Mon	37	Second CCM for III, V & VII Semester	4	Thurs		Diwali-Holiday	4	Sat		
5	Thurs		IQAC Meeting	5	Sun		Holiday	5	Tue	38		5	Fri	60	Submission of CCM-3 Report for III, V & VII Semester	5	Sun		Holiday
6	Fri			6	Mon	15		6	Wed	39		6	Sat	61		6	Mon		
7	Sat			7	Tue	16		7	Thurs	40	Submission of CCM-2 Report for III, V & VII Semester	7	Sun		Holiday	7	Tue		
8	Sun		Holiday	8	Wed	17		8	Fri	41		8	Mon	62		8	Wed		ICT Program
9	Mon			9	Thurs	18		9	Sat	42		9	Tue	63		9	Thurs		
10	Tue		VAC for II, III & IV Year	10	Fri		Vinayakar Chathurthi-Holiday	10	Sun		Holiday	10	Wed	64		10	Fri		
11	Wed			11	Sat	19		11	Mon	43		11	Thurs	65		11	Sat		
12	Thurs			12	Sun		Holiday	12	Tue	44		12	Fri	66		12	Sun		Holiday
13	Fri			13	Mon	20		13	Wed	45		13	Sat	67		13	Mon		Commencement of University Theory Examinations for III, V & VII Semester
14	Sat		Holiday	14	Tue	21		14	Thurs		AyuthaPooja-Holiday	14	Sun		Holiday	14	Tue		
15	Sun		Independence Day-Holiday	15	Wed	22		15	Fri		VijayaDasami-Holiday	15	Mon	68		15	Wed		
16	Mon			16	Thurs	23		16	Sat		Holiday	16	Tue	69		16	Thurs		IPR Program
17	Tue			17	Fri	24		17	Sun		Holiday	17	Wed	70	RM for EEE	17	Fri		
18	Wed	1	Commencement of Classes for II, III & IV Year	18	Sat	25		18	Mon	46		18	Thurs	71		18	Sat		RM for CSE
19	Thurs	2		19	Sun		Holiday	19	Tue		Milad Un Nabi-Holiday	19	Fri	72		19	Sun		Holiday
20	Fri		Moharram-Holiday	20	Mon	26	Life skills Program	20	Wed	47		20	Sat	73		20	Mon		
21	Sat	3		21	Tue	27		21	Thurs	48		21	Sun		Holiday	21	Tue		lang.commu.skills Program
22	Sun		Holiday	22	Wed	28		22	Fri	49		22	Mon	74	Cycle Test – III for III, V & VII Semester	22	Wed		
23	Mon	4		23	Thurs	29		23	Sat	50	Cycle Test – II for III, V & VII Semester	23	Tue	75		23	Thurs		
24	Tue	5		24	Fri	30		24	Sun		Holiday	24	Wed	76		24	Fri		RM for CIVIL
25	Wed	6		25	Sat	31	Cycle Test =I for III, V & VII Semester	25	Mon	51	Cycle Test – II for III, V & VII Semester	25	Thurs	77		25	Sat		Christmas-Holiday
26	Thurs	7		26	Sun		Holiday	26	Tue	52		26	Fri	78		26	Sun		Holiday
27	Fri	8		27	Mon	32	Cycle Test = I for III, V & VII Semester	27	Wed	53		27	Sat	79		27	Mon		RM for CSE & ECE
28	Sat	9		28	Tue	33		28	Thurs	54		28	Sun		Holiday	28	Tue		
29	Sun		Holiday	29	Wed	34		29	Fri	55		29	Mon	80		29	Wed		
30	Mon		Krishna Jayanthi-Holiday	30	Thurs	35	Cycle Test =I for III, V & VII Semester	30	Sat	56		30	Tue	81	Last Working Day for III, V and VII Semester	30	Thurs		
31	Tue	10						31	Sun		Holiday	31				31	Fri		

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COLLEGE - ACADEMIC CALENDAR EVEN SEMESTER 2021-2022 (II , III & IV YEAR)

Feb-22 Date	Day	No of Working Days	Particulars/Event	Mar-22 Date	Day	No of Working Days	Particulars/Event	Apr-22 Date	Day	No of Working Days	Particulars/Event	May-22 Date	Day	No of Working Days	Particulars/Event	Jun-22 Date	Day	No of Working Days	Particulars/Event
1	Tue			1	Tue			1	Fri	15	First CCM for IV, VI & VIII Semester	1	Sun		May Day Holiday	1	Wed	62	
2	Wed			2	Wed			2	Sat		Yugadi Holiday	2	Mon	37	Submission of CCM-2 Report for IV, VI & VIII Semester	2	Thurs	63	
3	Thurs			3	Thurs		IQAC Meeting	3	Sun		Holiday	3	Tue		Ramzan Holiday	3	Fri	64	
4	Fri			4	Fri			4	Mon	16		4	Wed	38		4	Sat	65	
5	Sat			5	Sat			5	Tue	17		5	Thurs	39		5	Sun		Holiday
6	Sun		Holiday	6	Sun		Holiday	6	Wed	18	Submission of CCM-1 Report for IV, VI & VIII Semester	6	Fri	40		6	Mon	66	
7	Mon		language and communication skills Program	7	Mon		VAC for II, III and IV year	7	Thurs	19		7	Sat	41	RM for EEE	7	Tue	67	
8	Tue			8	Tue		VAC for II, III and IV year	8	Fri	20		8	Sun		Holiday	8	Wed	68	
9	Wed			9	Wed		VAC for II, III and IV year	9	Sat	21		9	Mon	42		9	Thurs	69	
10	Thurs			10	Thurs		VAC for II, III and IV year	10	Sun		Holiday	10	Tue	43		10	Fri	70	
11	Fri			11	Fri		VAC for II, III and IV year	11	Mon	22		11	Wed	44		11	Sat	71	Cycle Test III for IV, VI & VIII Semester
12	Sat			12	Sat			12	Tue	23		12	Thurs	45		12	Sun		Holiday
13	Sun		Holiday	13	Sun		Holiday	13	Wed	24		13	Fri	46	ICT Skill Development Program	13	Mon	72	Cycle Test III for IV, VI & VIII Semester
14	Mon			14	Mon			14	Thurs		Tamil New Year Holiday	14	Sat	47		14	Tue	73	
15	Tue			15	Tue			15	Fri		Good Friday Holiday	15	Sun		Holiday	15	Wed	74	Life Skills Program
16	Wed			16	Wed	1	Commencement of Classes for IV, VI & VIII Semester Career Guidance and Development Program for II, III & IV	16	Sat		Holiday	16	Mon	48		16	Thurs	75	Last Working Day for IV, VI & VIII Semester
17	Thurs			17	Thurs	2		17	Sun		Holiday	17	Tue	49		17	Fri		
18	Fri		National conference	18	Fri	3		18	Mon	25		18	Wed	50	Cycle Test – II for IV, VI & VIII Semester	18	Sat		Commencement of Practical Exams for IV, VI & VIII Semester (Tentative)
19	Sat			19	Sat	4		19	Tue	26	Cycle Test – I for IV, VI & VIII Semester	19	Thurs	51		19	Sun		Holiday
20	Sun		Holiday	20	Sun		Holiday	20	Wed	27		20	Fri	52		20	Mon		
21	Mon			21	Mon	5		21	Thurs	28		21	Sat	53	RM for ECE	21	Tue		
22	Tue			22	Tue	6	Soft SkillProgram	22	Fri	29		22	Sun		Holiday	22	Wed		
23	Wed			23	Wed	7		23	Sat	30	IPR Program	23	Mon	54		23	Thurs		
24	Thurs			24	Thurs	8		24	Sun		Holiday	24	Tue	55		24	Fri		
25	Fri			25	Fri	9		25	Mon	31		25	Wed	56		25	Sat		
26	Sat			26	Sat	10		26	Tue	32		26	Thurs	57	Third CCM for IV, VI & VIII Semester	26	Sun		Holiday
27	Sun		Holiday	27	Sun		Holiday	27	Wed	33		27	Fri	58		27	Mon		
28	Mon			28	Mon	11		28	Thurs	34		28	Sat	59		28	Tue		Commencement of University Exams for IV, VI & VIII Semester (Tentative)
				29	Tue	12		29	Fri	35	First CCM for IV, VI & VIII Semester / RM for CIVIL	29	Sun		Holiday	29	Wed		
				30	Wed	13		30	Sat	36		30	Mon	60		30	Thurs		
				31	Thurs	14						31	Tue	61	Submission of CCM-3 Report for IV, VI & VIII Semester				

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COLLEGE ACADEMIC CALENDAR- ODD SEMESTER 2022-2023(II, III & IV year)

	Aug-22				Sep-22				Oct-22				Nov-22				Dec-22				Jan-23		
Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event
1	Mon			1	Thurs	21		1	Sat	47		1	Tue	67	Third CCM for V & VII Semester	1	Thurs	93		1	Sun		Holiday
2	Tue		IQAC Meeting-I	2	Fri	22		2	Sun		Gandhi Jayanthi-Holiday	2	Wed	68		2	Fri	94	Last Working Day for V and VII Semester	2	Mon		
3	Wed	1	Commencement of V and VII Semester, VAC for III & IV Year	3	Sat	23		3	Mon		Religious Festivals-Holiday	3	Thurs	69	Submission of CCM-3 Report for V & VII Semester	3	Sat	83 (II Year)		3	Tue		
4	Thurs	2		4	Sun		Holiday	4	Tue		Religious Festivals-Holiday	4	Fri	70		4	Sun		Holiday	4	Wed		
5	Fri	3	VAC for III & IV Year	5	Mon	24		5	Wed		Religious Festivals-Holiday	5	Sat	71		5	Mon	84		5	Thurs		
6	Sat	4		6	Tue	25	First CCM for III Semester	6	Thurs	48	Language and communication Program for all II ,III &IV year Students	6	Sun		Holiday	6	Tue	85	Commencement of University Theory Exam- III and IV Year - Tentative	6	Fri		
7	Sun		Holiday	7	Wed	26		7	Fri	49		7	Mon	72		7	Wed	86		7	Sat		
8	Mon	5	VAC for III & IV Year	8	Thurs	27		8	Sat	50		8	Tue	73		8	Thurs	87		8	Sun		Holiday
9	Tue		Muharram-Holiday	9	Fri	28	Submission of CCM-1 Report for III Semester	9	Sun		Holiday	9	Wed	74		9	Fri	88	Cycle Test-II For II Year	9	Mon		
10	Wed	6	VAC for III & IV Year	10	Sat	29	Cycle Test – I for V & VII Semester	10	Mon	51		10	Thurs	75	Language and communication skill for II, III and IV year students	10	Sat	89		10	Tue		
11	Thurs	7		11	Sun		Holiday	11	Tue	52	Soft Skill Training Program for II ,III & IV year students	11	Fri	76		11	Sun		Holiday	11	Wed		
12	Fri	7		12	Mon	30	Cycle Test – I for V & VII Semester	12	Wed	53		12	Sat	77		12	Mon	90		12	Thurs		
13	Sat	9		13	Tue	31		13	Thurs	54	Cycle Test – II for V & VII Semester	13	Sun		Holiday	13	Tue	91	Cycle Test-II For II Year	13	Fri		
14	Sun		Holiday	14	Wed	32	Second CCM for V & VII Semester	14	Fri	55		14	Mon	78		14	Wed	92		14	Sat		Religious Festivals-Holiday
15	Mon		Independence Day-Holiday	15	Thurs	33	Engineer's Day	15	Sat			15	Tue	79		15	Thurs	93		15	Sun		Religious Festivals-Holiday
16	Tue	10		16	Fri	34		16	Sun		Holiday	16	Wed	80	Cycle Test – III for V & VII Semester	16	Fri	94		16	Mon		Religious Festivals-Holiday
17	Wed	11		17	Sat	35	Submission of CCM-2 Report for V & VII Semester	17	Mon	57		17	Thurs	81		17	Sat	95		17	Tue		Religious Festivals-Holiday
18	Thurs	12		18	Sun		Holiday	18	Tue	58		18	Fri	82		18	Sun		Holiday	18	Wed		
19	Fri		Religious Festivals-Holiday	19	Mon	36		19	Wed	59		19	Sat	83		19	Mon	96		19	Thurs		
20	Sat		Religious Festivals-Holiday	20	Tue	37	RM for CSE	20	Thurs	60		20	Sun		Holiday	20	Tue	97		20	Fri		
21	Sun		Holiday	21	Wed	38		21	Fri	61		21	Mon	84		21	Wed	98		21	Sat		
22	Mon	13 (1 for II Year)	Classes Starts for III Semester/VAC for II Year	22	Thurs	39		22	Sat		Religious Festivals-Holiday	22	Tue	85	Third CCM for III Semester	22	Thurs	99		22	Sun		Holiday
23	Tue	14	VAC for II Year	23	Fri	40		23	Sun		Religious Festivals-Holiday	23	Wed	86		23	Fri	100		23	Mon		Commencement of University Practical Exam-II, III and IV Year - Tentative
24	Wed	15	First CCM for V & VII Semester/VAC for II	24	Sat	41	RM for EEE & ECE	24	Mon		Religious Festivals-Holiday	24	Thurs	87	Submission of CCM-3 Report for III Semester	24	Sat		Holiday	24	Tue		
25	Thurs	16	VAC for II Year	25	Sun		Holiday	25	Tue		Religious Festivals-Holiday	25	Fri	88		25	Sun		Christmas -Holiday	25	Wed		
26	Fri	17	VAC for II Year	26	Mon	42	IQAC Meeting-II	26	Wed	62		26	Sat	89		26	Mon	101	Last Working Day for III Semester	26	Thurs		Republic Day-Holiday
27	Sat	18	Submission of CCM-1 Report for V & VII Semester	27	Tue	43	Second CCM for III Semester	27	Thurs	63		27	Sun		Holiday	27	Tue		Commencement of University Theory Exam- II Year-Tentative	27	Fri		
28	Sun		Holiday	28	Wed	44		28	Fri	64		28	Mon	90		28	Wed			28	Sat		
29	Mon	19		29	Thurs	45		29	Sat	65	RM for EEE & ECE	29	Tue	91		29	Thurs			29	Sun		Holiday
30	Tue	20		30	Fri	46	Submission of CCM-2 Report for III Semester	30	Sun		Holiday	30	Wed	92		30	Fri			30	Mon		
31	Wed		Religious Festivals-Holiday					31	Mon	66	RM for CIVIL					31	Sat			31	Tue		

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COLLEGE- ACADEMIC CALENDAR EVEN SEMESTER 2022-2023 (II, III & IV year)

Jan-23

Date	Day	No of Working Days	Particulars Event
1	Sun		Holiday
2	Mon		
3	Tue		
4	Wed		
5	Thurs		
6	Fri		
7	Sat		
8	Sun		Holiday
9	Mon		
10	Tue		
11	Wed		
12	Thurs		
13	Fri		
14	Sat		Religious Festivals-Holiday
15	Sun		Religious Festivals-Holiday
16	Mon		Religious Festivals-Holiday
17	Tue		Religious Festivals-Holiday
18	Wed		
19	Thurs		
20	Fri		
21	Sat		
22	Sun		Holiday
23	Mon		
24	Tue		
25	Wed		IQAC Meeting I
26	Thurs		Republic Day-Holiday
27	Fri		
28	Sat		
29	Sun		Holiday
30	Mon		Certificate Course For II & III Year
31	Tue		

Feb-23

Date	Day	No of Working Days	Particulars Event
1	Wed	1	Commencement of Classes -IV,VI & VIII Sem/ Certificate Course For
2	Thu	2	Certificate Course For II & III Year
3	Fri	3	
4	Sat	4	
5	Sun		Holiday
6	Mon	5	
7	Tue	6	RM for EEE &ECE
8	Wed	7	
9	Thurs	8	
10	Fri	9	
11	Sat	10	
12	Sun		Holiday
13	Mon	11	RM for CSE
14	Tue	12	
15	Wed	13	
16	Thurs	14	
17	Fri	15	
18	Sat	16	RM for CIVIL
19	Sun		Holiday
20	Mon	17	First CCM for IV, VI, & VIII
21	Tue	18	
22	Wed	19	Submission of CCM-1 Report for IV, VI, & VIII Semester
23	Thurs	20	ICT Program
24	Fri	21	
25	Sat	22	
26	Sun		Holiday
27	Mon	23	IQAC Meeting II
28	Tue	24	

Mar-23

Date	Day	No of Working Days	Particulars Event
1	Wed	25	
2	Thurs	26	
3	Fri	27	
4	Sat	28	
5	Sun		Holiday
6	Mon	29	
7	Tue	30	
8	Wed	31	Women's Day
9	Thurs	32	Cultural Day Celebration
10	Fri	33	
11	Sat	34	
12	Sun		Holiday
13	Mon	35	
14	Tue	36	
15	Wed	37	
16	Thurs	38	
17	Fri	39	
18	Sat	40	Second CCM for IV, VI, & VIII
19	Sun		Holiday
20	Mon	41	Cycle Test – I(IV ,VI & VIII)
21	Tue	42	Submission of CCM-II Report for IV, VI, & VIII Semester / Cycle Test – I
22	Wed		Telugu New Year
23	Thurs	43	Cycle Test – I for IV ,VI & VIII Semester
24	Fri	44	
25	Sat	45	
26	Sun		Holiday
27	Mon	46	
28	Tue	47	IQAC Meeting III
29	Wed	48	
30	Thurs	49	
31	Fri	50	

Apr-23

Date	Day	No of Working Days	Particulars Event
1	Sat	51	
2	Sun		Holiday
3	Mon	52	
4	Tue	53	
5	Wed	54	
6	Thurs	55	
7	Fri		Good Friday / Holiday
8	Sat	56	
9	Sun		Holiday
10	Mon	57	
11	Tue	58	
12	Wed	59	Cycle Test –II for VI & VIII Semester
13	Thurs	60	Cycle Test –II for VI & VIII Semester
14	Fri		Tamil New Year -Holiday
15	Sat	61	Cycle Test –II for VI & VIII Semester
16	Sun		Holiday
17	Mon	62	Cycle Test –II for VI & VIII Semester
18	Tue	63	Cycle Test –II for VI & VIII Semester
19	Wed	64	Cycle Test –II for VI & VIII Semester
20	Thurs	65	
21	Fri	66	
22	Sat	67	
23	Sun		Holiday
24	Mon	68	3rd CCM for IV,VI, & VIII Semester
25	Tue	69	National conference
26	Wed	70	Submission of CCM-3 Report for IV, VI, & VIII Semester / IPR Program for II, III & IV Year
27	Thurs	71	IQAC Meeting IV
28	Fri	72	
29	Sat	73	RM for EEE & ECE
30	Sun		Holiday

May-23

Date	Day	No of Working Days	Particulars Event
1	Mon	74	
2	Tue	75	
3	Wed	76	life skill program for II, III & IV year students
4	Thur	77	
5	Fri	78	Cycle Test – III for VI & VIII Semester and Cycle Test – II for IV Semester
6	Sat	79	
7	Sun		Holiday
8	Mon	80	Cycle Test – III for VI & VIII Semester and Cycle Test – II for IV Semester
9	Tue	81	
10	Wed	82	
11	Thur	83	Cycle Test – III for VI & VIII Semester and Cycle Test – II for IV Semester
12	Fri	84	Last Working day for IV Year
13	Sat		Holiday
14	Sun		Holiday
15	Mon	85	Commencement of Practical Exam for IV Year - Tentative
16	Tue	86	
17	Wed	87	
18	Thu	88	
19	Fri	89	
20	Sat	90	
21	Sun		Holiday
22	Mon	91	
23	Tue	92	
24	Wed	93	Last Working day for II and III Year
25	Thu		
26	Fri		Commencement of Theory Exam for IV year and Practical for II and III Year Tentative
27	Sat		
28	Sun		Holiday
29	Mon		IQAC Meeting -V
30	Tue		
31	Wed		

Jun-23

Date	Day	No of Working Days	Particulars Event
1	Thur		
2	Fri		
3	Sat		
4	Sun		Holiday
5	Mon		Commencement of Theory Exam for II and IIIyear
6	Tue		
7	Wed		
8	Thur		
9	Fri		
10	Sat		
11	Sun		Holiday
12	Mon		RM for CSE
13	Tue		
14	Wed		
15	Thu		
16	Fri		
17	Sat		
18	Sun		Holiday
19	Mon		
20	Tue		
21	Wed		
22	Thu		
23	Fri		
24	Sat		
25	Sun		Holiday
26	Mon		
27	Tue		
28	Wed		IQAC Meeting VI
29	Tue		Bakrid Holiday
30	Wed		

Certificate Course for IV Year as per the Time Table

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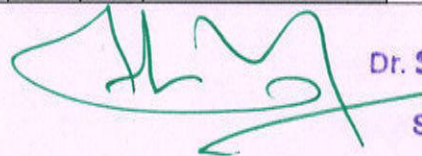
COLLEGE- ACADEMIC CALENDAR - FIRST SEMESTER 2018-2019

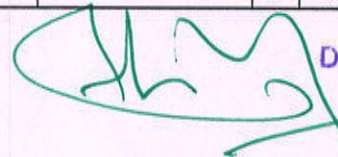|	Sep-18				Oct-18				Nov-18				Dec-18		
Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event
1	Sat		Holiday	1	Mon	22	Class Committee Meeting - II for I Semester	1	Thurs	45	Cycle Test – II for I Semester	1	Sat	69	
2	Sun		Krishna Jayanthi-Holiday	2	Tue		Gandhi Jayanthi-Holiday	2	Fri	46	Cycle Test – II for I Semester	2	Sun		Holiday
3	Mon	1	Commencement of Classes for I Semester	3	Wed	23		3	Sat	47		3	Mon	70	Cycle Test – III for I Semester
4	Tue	2		4	Thurs	24	Submission of CCM-II Report for I Semester	4	Sun		Holiday	4	Tue	71	Cycle Test – III for I Semester
5	Wed	3		5	Fri	25		5	Mon	48		5	Wed	72	Cycle Test – III for I Semester
6	Thurs	4		6	Sat	26		6	Tue		Diwali-Holiday	6	Thurs	73	Cycle Test – III for I Semester
7	Fri	5		7	Sun		Holiday	7	Wed	49		7	Fri	74	Cycle Test – III for I Semester/CCM - III for I Semester
8	Sat	6		8	Mon	27	VAC	8	Thurs	50		8	Sat	75	Cycle Test – III for I Semester
9	Sun		Holiday	9	Tue	28	VAC	9	Fri	51		9	Sun		Holiday
10	Mon	7		10	Wed	29	VAC	10	Sat	52		10	Mon	76	Last Working Day for I Semester / Submission of CCM-III Report for I Semester
11	Tue	8		11	Thurs	30	VAC	11	Sun		Holiday	11	Tue		
12	Wed	9		12	Fri	31	VAC	12	Mon	53		12	Wed		Commencement of Practical Examination for I Semester
13	Thurs		Vinayakar Chathurthi-Holiday	13	Sat	32		13	Tue	54		13	Thurs		
14	Fri	10		14	Sun		Holiday	14	Wed	55		14	Fri		
15	Sat	11	CCM- I for I Semester	15	Mon	33		15	Thurs	56		15	Sat		
16	Sun		Holiday	16	Tue	34		16	Fri	57	Soft Skill Training Program	16	Sun		Holiday
17	Mon	12		17	Wed	35		17	Sat	58		17	Mon		
18	Tue	13		18	Thurs		Pooja-Holiday	18	Sun		Holiday	18	Tue		
19	Wed	14	Submission of CCM-I Report for I Semester	19	Fri			19	Mon	59		19	Wed		
20	Thurs	15		20	Sat		Holiday	20	Tue	60		20	Thurs		
21	Fri		Moharram-Holiday	21	Sun			21	Wed		Miladi Nabi-Holiday	21	Fri		
22	Sat		Holiday	22	Mon	36		22	Thurs	61		22	Sat		
23	Sun		Holiday	23	Tue	37		23	Fri	62		23	Sun		Holiday
24	Mon	16		24	Wed	38		24	Sat	63		24	Mon		
25	Tue	17	Cycle Test – I for I Semester	25	Thurs	39		25	Sun		Holiday	25	Tue		Christmas-Holiday
26	Wed	18		26	Fri	40		26	Mon	64		26	Wed		
27	Thurs	19		27	Sat	41		27	Tue	65		27	Thurs		
28	Fri	20		28	Sun		Holiday	28	Wed	66		28	Fri		
29	Sat	21		29	Mon	42	Cycle Test – II for I Semester	29	Thurs	67		29	Sat		Commencement of Theory Examination for I Semester
30	Sun		Holiday	30	Tue	43	Cycle Test – II for I Semester	30	Fri	68		30	Sun		Holiday
				31	Wed	44	Cycle Test – II for I Semester						Mon		

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COLLEGE - ACADEMIC CALENDAR - SECOND SEMESTER 2018-2019

Jan-19 Date	Day	No of Working Days	Particulars/Event	Feb-19 Date	Day	No of Working Days	Particulars/Event	Mar-19 Date	Day	No of Working Days	Particulars/Event	Apr-19 Date	Day	No of Working Days	Particulars/Event	May-19 Date	Day	No of Working Days	Particulars/Event
1	Tue		New Year- Holiday	1	Fri	10		1	Fri	34	CCM- II for II Semester/ICT Program	1	Mon	60		1	Wed		May Day Holiday
2	Wed			2	Sat	11	CCM - I for II Semester	2	Sat	35	National Conference	2	Tue	61		2	Thurs		
3	Thurs			3	Sun		Holiday	3	Sun		Holiday	3	Wed	62		3	Fri		
4	Fri			4	Mon	12		4	Mon	36		4	Thurs	63		4	Sat		IPR Program
5	Sat			5	Tue	13	Submission of CCM-I Report for II Semester	5	Tue	37	Submission of CCM-II Report for II Semester	5	Fri	64		5	Sun		Holiday
6	Sun		Holiday	6	Wed	14		6	Wed	38		6	Sat		Telugu New Year	6	Mon		Commencement of Theory Examinations for II Semester
7	Mon			7	Thurs	15		7	Thurs	39		7	Sun		Holiday	7	Tue		
8	Tue			8	Fri	16		8	Fri	40	International Women's Day	8	Mon	65		8	Wed		
9	Wed			9	Sat	17		9	Sat	41		9	Tue	66		9	Thurs		
10	Thurs			10	Sun		Holiday	10	Sun		Holiday	10	Wed	67		10	Fri		
11	Fri			11	Mon	18		11	Mon	42		11	Thurs	68		11	Sat		
12	Sat			12	Tue	19		12	Tue	43		12	Fri	69		12	Sun		Holiday
13	Sun		Holiday	13	Wed	20		13	Wed	44		13	Sat	70	Cycle Test III for II Semester	13	Mon		
14	Mon			14	Thurs	21		14	Thurs	45		14	Sun		Holiday	14	Tue		
15	Tue		Pongal-Holiday	15	Fri	22		15	Fri	46		15	Mon	71	Cycle Test III for II Semester	15	Wed		
16	Wed		Pongal-Holiday	16	Sat	23		16	Sat	47	Cycle Test II for II Semester	16	Tue	72		16	Thurs		
17	Thurs			17	Sun		Holiday	17	Sun		Holiday	17	Wed	73		17	Fri		
18	Fri			18	Mon	24	language and communication skills Program	18	Mon	48	Cycle Test II for II Semester	18	Thurs	74	Cycle Test III for II Semester	18	Sat		
19	Sat			19	Tue	25		19	Tue	49		19	Fri	75	Cycle Test III for II Semester / CCM - III for II Semester	19	Sun		Holiday
20	Sun		Holiday	20	Wed	26		20	Wed	50		20	Sat	76		20	Mon		
21	Mon	1	Commencement of Classes for II Semester and VAC	21	Thurs	27		21	Thurs	51	Cycle Test II for II Semester	21	Sun		Holiday	21	Tue		
22	Tue	2	VAC	22	Fri	28	Cycle Test I for II Semester	22	Fri	52		22	Mon	77	Submission of CCM-III Report for II Semester & Last Working Day for II...	22	Wed		
23	Wed	3	VAC	23	Sat	29		23	Sat	53		23	Tue			23	Thurs		
24	Thurs	4	VAC	24	Sun		Holiday	24	Sun		Holiday	24	Wed		Commencement of Practical Examinations for II Semester	24	Fri		
25	Fri	5	VAC	25	Mon	30		25	Mon	54		25	Thurs			25	Sat		
26	Sat		Republic Day-Holiday	26	Tue	31	Cycle Test I for II Semester	26	Tue	55		26	Fri			26	Sun		Holiday
27	Sun		Holiday	27	Wed	32		27	Wed	56		27	Sat			27	Mon		
28	Mon	6		28	Thurs	33		28	Thurs	57		28	Sun		Holiday	28	Tue		
29	Tue	7						29	Fri	58		29	Mon			29	Wed		
30	Wed	8						30	Sat	59		30	Tue			30	Thurs		
31	Thurs	9						31	Sun		Holiday					31	Fri		

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

COLLEGE-ACADEMIC CALENDAR - FIRST SEMESTER 2019-2020

Aug-19				Sep-19				Oct-19				Nov-19				Dec-19			
Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event
1	Thurs			1	Sun		Holiday	1	Tue	45		1	Fri	69		1	Sun		Holiday
2	Fri			2	Mon		Vinayakar Chathurthi-Holiday	2	Wed		Gandhi Jayanthi Holiday	2	Sat	70		2	Mon		
3	Sat			3	Tue	22	Submission of CCM-I Report for I Semester	3	Thurs	46		3	Sun		Holiday	3	Tue		
4	Sun		Holiday	4	Wed	23		4	Fri	47	soft skill Training Program for all First Year	4	Mon	71		4	Wed		
5	Mon	1	Commencement of Induction Programme for I Semester	5	Thurs	24		5	Sat	48		5	Tue	72	IPR Program for all first Year	5	Thurs		
6	Tue	2		6	Fri	25		6	Sun		Holiday	6	Wed	73		6	Fri		
7	Wed	3		7	Sat	26		7	Mon		Pooja-Holiday	7	Thurs	74	Cycle Test – III for I Semester	7	Sat		Holiday
8	Thurs	4		8	Sun		Holiday	8	Tue			8	Fri	75		8	Sun		Holiday
9	Fri	5		9	Mon	27		9	Wed	49		9	Sat	76	Cycle Test – III for I Semester	9	Mon		
10	Sat	6		10	Tue		Moharram - Holiday	10	Thurs	50		10	Sun		Milad-In-Nabi Holiday	10	Tue		Commencement of University Theory Examination for I Semester
11	Sun		Holiday	11	Wed	28		11	Fri	51		11	Mon	77		11	Wed		
12	Mon		Bakrid-Holiday	12	Thurs	29		12	Sat	52		12	Tue	78	Cycle Test – III for I Semester	12	Thurs		
13	Tue	7		13	Fri	30		13	Sun		Holiday	13	Wed	79		13	Fri		
14	Wed	8	Commencement of Classes for I Semester	14	Sat	31		14	Mon	53		14	Thurs	80	Cycle Test – III for I Semester	14	Sat		
15	Thurs		Independence Day - Holiday	15	Sun		Holiday	15	Tue	54		15	Fri	81	Third Class Committee Meeting for I Semester	15	Sun		
16	Fri	9		16	Mon	32		16	Wed	55		16	Sat	82	Cycle Test – III for I Semester	16	Mon		
17	Sat	10		17	Tue	33		17	Thurs	56	VAC for First Year	17	Sun		Holiday	17	Tue		
18	Sun		Holiday	18	Wed	34		18	Fri	57		18	Mon	83		18	Wed		
19	Mon	11		19	Thurs	35	Cycle Test – I for I Semester	19	Sat	58	Cycle Test-II for I Semester	19	Tue	84	Cycle Test – III for I Semester / Submission of CCM-III Report for I	19	Thurs		
20	Tue	12		20	Fri	36		20	Sun		Holiday	20	Wed	85	Last Working Day for I Semester	20	Fri		
21	Wed	13		21	Sat	37		21	Mon	59	Cycle Test-II for I Semester	21	Thurs			21	Sat		Holiday
22	Thurs	14		22	Sun		Holiday	22	Tue	60	Cycle Test-II for I Semester	22	Fri		Commencement of University Practical Examination for I	22	Sun		Holiday
23	Fri	15		23	Mon	38		23	Wed	61	Cycle Test-II for I Semester	23	Sat		Holiday	23	Mon		
24	Sat		Krishna Jayanthi-Holiday	24	Tue	39	Life skill Program for all Years	24	Thurs	62	Cycle Test-II for I Semester	24	Sun		Holiday	24	Tue		
25	Sun		Holiday	25	Wed	40	Second Class Committee Meeting for I Semester	25	Fri	63		25	Mon			25	Wed		Christmas - Holiday
26	Mon	16		26	Thurs	41		26	Sat	64		26	Tue			26	Thurs		
27	Tue	17		27	Fri	42		27	Sun		Diwali-Holiday	27	Wed			27	Fri		
28	Wed	18		28	Sat	43	Submission of CCM-II Report for I Semester	28	Mon	65		28	Thurs			28	Sat		
29	Thurs	19		29	Sun		Holiday	29	Tue	66		29	Fri			29	Sun		Holiday
30	Fri	20	First Class Committee Meeting for I Semester	30	Mon	44		30	Wed	67		30	Sat			30	Mon		
31	Sat	21						31	Thurs	68						31	Tue		

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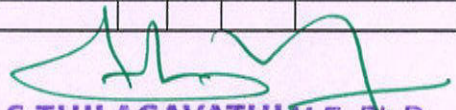
COLLEGE-ACADEMIC CALENDAR - SECOND SEMESTER 2019-2020

Jan-20 Date	Day	No of Working Days	Particulars Event	Feb-20 Date	Day	No of Working Days	Particulars Event	Mar-20 Date	Day	No of Working Days	Particulars Event	Apr-20 Date	Day	No of Working Days	Particulars/Event	May-20 Date	Day	No of Working Days	Particulars/Event
1	Wed		New Year- Holiday	1	Sat	11	First Class Committee Meeting for II Semester	1	Sun		Holiday	1	Wed	61		1	Fri		May Day Holiday
2	Thurs			2	Sun		Holiday	2	Mon	36		2	Thurs	62		2	Sat		Holiday
3	Fri			3	Mon	12		3	Tue	37		3	Fri	63		3	Sun		Holiday
4	Sat			4	Tue	13		4	Wed	38		4	Sat	64		4	Mon		
5	Sun		Holiday	5	Wed	14	Submission of CCM-I Report for II Semester	5	Thurs	39		5	Sun		Holiday	5	Tue		
6	Mon		VAC	6	Thurs	15		6	Fri	40	International Women's Day	6	Mon		Mahaveer Jayanti-Holiday	6	Wed		
7	Tue		VAC	7	Fri	16		7	Sat	41		7	Tue	65		7	Thurs		
8	Wed		VAC	8	Sat	17		8	Sun		Holiday	8	Wed	66		8	Fri		
9	Thurs		VAC	9	Sun		Holiday	9	Mon	42	Second Class Committee Meeting for II Semester	9	Thurs	67		9	Sat		Holiday
10	Fri		VAC	10	Mon	18		10	Tue	43		10	Fri		Good Friday-Holiday	10	Sun		Holiday
11	Sat			11	Tue	19	ICT Program	11	Wed	44	Submission of CCM-II Report for II Semester	11	Sat	68		11	Mon		Commencement of University Theory Examination for II Semester
12	Sun		Holiday	12	Wed	20		12	Thurs	45	Life skill Program for all Students	12	Sun		Holiday	12	Tue		
13	Mon			13	Thurs	21	language and communication Program for First Year	13	Fri	46		13	Mon	69	Third Class Committee Meeting for II Semester	13	Wed		
14	Tue			14	Fri	22	Cycle Test-I for II Semester	14	Sat	47	Cycle Test-II for II Semester	14	Tue		Tamil New Year -Holiday	14	Thurs		
15	Wed			15	Sat	23	Cycle Test-I for II Semester	15	Sun		Holiday	15	Wed	70		15	Fri		
16	Thurs		Pongal-Holiday	16	Sun		Holiday	16	Mon	48	Cycle Test-II for II Semester	16	Thurs	71	Language and communication Program for First Year /Submission of CCM-III Report for II Semester	16	Sat		Holiday
17	Fri			17	Mon	24	Cycle Test-I for II Semester	17	Tue	49	Cycle Test-II for II Semester	17	Fri	72	Cycle Test III for II Semester	17	Sun		Holiday
18	Sat		Holiday	18	Tue	25	Cycle Test-I for II Semester	18	Wed	50	Cycle Test-II for II Semester	18	Sat	73	Cycle Test III for II Semester	18	Mon		
19	Sun		Holiday	19	Wed	26	Cycle Test-I for II Semester	19	Thurs	51	Cycle Test-II for II Semester	19	Sun		Holiday	19	Tue		
20	Mon	1	Classes Starts for II Semester	20	Thurs	27	Cycle Test-I for II Semester	20	Fri	52	Cycle Test-II for II Semester	20	Mon	74		20	Wed		
21	Tue	2		21	Fri	28	National Conference	21	Sat	53		21	Tue	75	Cycle Test III for II Semester	21	Thurs		
22	Wed	3		22	Sat	29		22	Sun		Holiday	22	Wed	76	Cycle Test III for II Semester	22	Fri		
23	Thurs	4		23	Sun		Holiday	23	Mon	54		23	Thurs	77	Cycle Test III for II Semester	23	Sat		Holiday
24	Fri	5		24	Mon	30		24	Tue	55		24	Fri	78	Last Working Day for II Semester	24	Sun		Holiday
25	Sat		Holiday/Faculty Development Program	25	Tue	31		25	Wed		Telugu New Year's Day-Holiday	25	Sat		Holiday	25	Mon		Ramzan-Holiday
26	Sun		Republic Day-Holiday	26	Wed	32		26	Thurs	56		26	Sun		Holiday	26	Tue		
27	Mon	6		27	Thurs	33		27	Fri	57		27	Mon		Commencement of University Practical Examinations for II Semester	27	Wed		
28	Tue	7		28	Fri	34		28	Sat	58		28	Tue			28	Thurs		
29	Wed	8		29	Sat	35		29	Sun		Holiday	29	Wed			29	Fri		
30	Thurs	9						30	Mon	59		30	Thurs			30	Sat		Holiday
31	Fri	10						31	Tue	60						31	Sun		Holiday

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
COLLEGE - ACADEMIC CALENDAR- FIRST SEMESTER 2020-2021

Nov-20				Dec-20				Jan-21				Feb-21			
Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event
1	Sun		Holiday	1	Tue	18		1	Fri		New Year Holiday	1	Mon	65	
2	Mon			2	Wed	19		2	Sat	44	Submission of CCM-II Report for I Semester	2	Tue	66	
3	Tue			3	Thurs	20	Class Committee Meeting - I for I Semester	3	Sun		Holiday	3	Wed	67	
4	Wed			4	Fri	21		4	Mon	45	VAC	4	Thurs	68	
5	Thurs			5	Sat	22		5	Tue	46	VAC	5	Fri	69	National Conference
6	Fri			6	Sun		Holiday	6	Wed	47	VAC	6	Sat	70	
7	Sat			7	Mon	23	Submission of CCM-I Report for I Semester/life skills programme for All Year Students	7	Thurs	48	VAC	7	Sun		Holiday
8	Sun		Holiday	8	Tue	24		8	Fri	49	VAC	8	Mon	71	
9	Mon	1	Commencement of Induction Programme for I Year	9	Wed	25		9	Sat	50	VAC	9	Tue	72	
10	Tue	2		10	Thurs	26	Soft Skill Training Programme for I year Through Online	10	Sun		Holiday	10	Wed	73	Class Committee Meeting - III for I Semester
11	Wed	3		11	Fri	27		11	Mon	51		11	Thurs	74	
12	Thurs	4		12	Sat	28		12	Tue	52		12	Fri	75	
13	Fri	5		13	Sun		Holiday	13	Wed	53		13	Sat	76	Submission of CCM-III Report for I Semester
14	Sat		Diwali holiday	14	Mon	29		14	Thurs		Pongal Holiday	14	Sun		Holiday
15	Sun		Holiday	15	Tue	30		15	Fri			15	Mon	77	
16	Mon			16	Wed	31		16	Sat			16	Tue	78	
17	Tue	6		17	Thurs	32	Cycle Test-I for I Semester	17	Sun			17	Wed	79	Cycle Test-III for I Semester
18	Wed	7		18	Fri	33		18	Mon	54		18	Thurs	80	
19	Thurs	8		19	Sat	34		19	Tue	55		19	Fri	81	
20	Fri	9		20	Sun		Holiday	20	Wed	56	Cycle Test-II for I Semester	20	Sat	82	
21	Sat	10		21	Mon	35		21	Thurs	57		21	Sun		Holiday
22	Sun		Holiday	22	Tue	36		22	Fri	58		22	Mon	83	
23	Mon	11	Commencement of Classes for I Semester	23	Wed	37		23	Sat	59		23	Tue	84	
24	Tue	12		24	Thurs	38		24	Sun		Holiday	24	Wed	85	Last Working Day for I Semester
25	Wed	13		25	Fri		Christmas	25	Mon	60		25	Thurs		
26	Thurs	14		26	Sat	39		26	Tue		Republic Day -Holiday	26	Fri		Commencement of University Practical Examinations for I Semester
27	Fri	15		27	Sun		Holiday	27	Wed	61		27	Sat		
28	Sat	16		28	Mon	40		28	Thurs	62		28	Sun		Holiday
29	Sun		Holiday	29	Tue	41	Class Committee Meeting - II for I Semester	29	Fri	63					
30	Mon	17		30	Wed	42		30	Sat	64					
				31	Thurs	43		31	Sun		Holiday				

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

COLLEGE - ACADEMIC CALENDAR - SECOND SEMESTER 2020-2021

Apr-21 Date	Day	No of Working Days	Particulars/Event	May-21 Date	Day	No of Working Days	Particulars/Event	Jun-21 Date	Day	No of Working Days	Particulars/Event	Jul-21 Date	Day	No of Working Days	Particulars/Event
1	Thurs		VAC	1	Sat		May Day Holiday	1	Tue	42		1	Thurs	68	
2	Fri		Good Friday-Holiday	2	Sun		Holiday	2	Wed	43		2	Fri	69	Cycle Test III for II Semester
3	Sat		VAC	3	Mon	19		3	Thurs	44		3	Sat	70	
4	Sun		Holiday	4	Tue	20		4	Fri	45		4	Sun		
5	Mon		VAC	5	Wed	21	Lang.commu.skills Program	5	Sat	46		5	Mon	71	
6	Tue		VAC	6	Thurs	22		6	Sun		Holiday	6	Tue	72	Cycle Test III for II Semester
7	Wed		VAC	7	Fri	23	ICT Program	7	Mon	47		7	Wed	73	
8	Thurs	1	Classes Starts for II Semester	8	Sat	24		8	Tue	48		8	Thurs	74	Last Working Day for II Semester
9	Fri	2		9	Sun		Holiday	9	Wed	49		9	Fri		
10	Sat	3		10	Mon	25		10	Thurs	50		10	Sat		Commencement of University Practical Examinations for II Semester
11	Sun		Holiday	11	Tue	26		11	Fri	51		11	Sun		
12	Mon	4		12	Wed	27		12	Sat	52		12	Mon		
13	Tue		Telegu New Year	13	Thurs	28		13	Sun		Holiday	13	Tue		
14	Wed		Tamil New Year	14	Fri		Ramzan-Holiday	14	Mon	53		14	Wed		
15	Thurs	5		15	Sat		Holiday	15	Tue	54		15	Thurs		
16	Fri	6		16	Sun		Holiday	16	Wed	55		16	Fri		
17	Sat	7		17	Mon	29		17	Thurs	56	Cycle Test-II for II Semester	17	Sat		
18	Sun		Holiday	18	Tue	30		18	Fri	57		18	Sun		Holiday
19	Mon	8		19	Wed	31		19	Sat	58		19	Mon		
20	Tue	9		20	Thurs	32	Cycle Test-I for II Semester	20	Sun		Holiday	20	Tue		
21	Wed	10		21	Fri	33		21	Mon	59		21	Wed		Bakrid-Holiday
22	Thurs	11		22	Sat	34		22	Tue	60		22	Thurs		Commencement of University THeoary Examinations for II Semester
23	Fri	12		23	Sun		Holiday	23	Wed	61		23	Fri		
24	Sat	13	First Class Committee Meeting for II Semester	24	Mon	35	Second Class Committee Meeting for II Semester	24	Thurs	62		24	Sat		
25	Sun		Mahavir Jayanthi-Holiday	25	Tue	36		25	Fri	63		25	Sun		Holiday
26	Mon	14	IPR Program	26	Wed	37		26	Sat	64		26	Mon		
27	Tue	15	Submission of CCM-1 Report for II Semester	27	Thurs	38	Submission of CCM-II Report for II Semester	27	Sun		Holiday	27	Tue		
28	Wed	16		28	Fri	39		28	Mon	65	Third Class Committee Meeting for II Semester	28	Wed		
29	Thurs	17		29	Sat	40		29	Tue	66		29	Thurs		
30	Fri	18		30	Sun		Holiday	30	Wed	67	Submission of CCM-III Report for II Semester	30	Fri		
				31	Mon	41						31	Sat		

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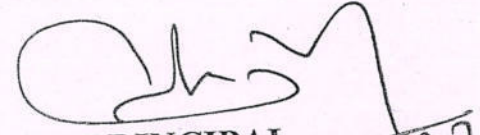
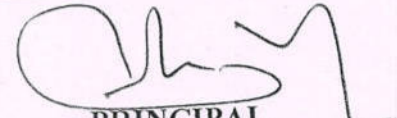# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

COLLEGE - ACADEMIC CALENDAR - FIRST SEMESTER 2021-2022

Nov-21

Date	Day	No of Working Days	Particulars/Event
1	Mon		
2	Tue		
3	Wed		
4	Thurs		Diwali-Holiday
5	Fri		
6	Sat		
7	Sun		Holiday
8	Mon	1	College opening for I Semester
9	Tue	2	Induction Program for I Year Starts
10	Wed	3	
11	Thurs	4	
12	Fri	5	
13	Sat	6	
14	Sun		Holiday
15	Mon	7	
16	Tue	8	
17	Wed	9	
18	Thurs	10	
19	Fri	11	
20	Sat	12	
21	Sun		Holiday
22	Mon	13	Classes Starts for I Semester
23	Tue	14	
24	Wed	15	
25	Thurs	16	
26	Fri	17	
27	Sat	18	
28	Sun		Holiday
29	Mon	19	
30	Tue	20	

Dec-21

Date	Day	No of Working Days	Particulars/Event
1	Wed	21	
2	Thurs	22	
3	Fri	23	
4	Sat	24	
5	Sun		Holiday
6	Mon	25	First CCM for I Semester
7	Tue	26	
8	Wed	27	
9	Thurs	28	Submission of CCM-1 Report for I Semester
10	Fri	29	ICT Program
11	Sat	30	
12	Sun		Holiday
13	Mon	31	
14	Tue	32	
15	Wed	33	
16	Thurs	34	IPR Program
17	Fri	35	
18	Sat	36	
19	Sun		Holiday
20	Mon	37	
21	Tue	38	Lang.commu.skills Program
22	Wed	39	Pre Cycle Test-I for I Semester
23	Thurs	40	Pre Cycle Test-I for I Semester
24	Fri	41	
25	Sat		Chirstmas-Holiday
26	Sun		Holiday
27	Mon	42	Pre Cycle Test-I for I Semester
28	Tue	43	
29	Wed	44	
30	Thurs	45	
31	Fri	46	Soft Skill Training Program

Jan-22

Date	Day	No of Working Days	Particulars/Event
1	Sat		New Year
2	Sun		Holiday
3	Mon	47	
4	Tue	48	
5	Wed	49	
6	Thurs	50	
7	Fri	51	Cycle Test-I for I Semester
8	Sat	52	
9	Sun		Holiday
10	Mon	53	Cycle Test-I for I Semester
11	Tue	54	
12	Wed	55	
13	Thurs	56	
14	Fri		Pongal-- Holiday
15	Sat		Thiruvalluvar Day- Holiday
16	Sun		UzbavarThinam-Holiday
17	Mon	57	
18	Tue		Thaipoosam- Holiday
19	Wed	58	
20	Thurs	59	Second CCM for I Semester
21	Fri	60	
22	Sat	61	
23	Sun		Holiday
24	Mon	62	Submission of CCM-2 Report for I Semester/VAC
25	Tue	63	VAC
26	Wed		Republic Day- Holiday
27	Thurs	64	VAC
28	Fri	65	VAC
29	Sat	66	VAC
30	Sun		Holiday
31	Mon	67	

Feb-22

Date	Day	No of Working Days	Particulars/Event
1	Tue	68	
2	Wed	69	
3	Thurs	70	
4	Fri	71	
5	Sat	72	
6	Sun		Holiday
7	Mon	73	
8	Tue	74	
9	Wed	75	
10	Thurs	76	
11	Fri	77	
12	Sat	78	
13	Sun		Holiday
14	Mon	79	
15	Tue	80	
16	Wed	81	
17	Thurs	82	
18	Fri	83	National conference
19	Sat	84	
20	Sun		Holiday
21	Mon	85	
22	Tue	86	
23	Wed	87	
24	Thurs	88	Cycle Test-II for I Semester
25	Fri	89	Cycle Test-II for I Semester
26	Sat	90	
27	Sun		Holiday
28	Mon	91	Cycle Test-II for I Semester

Mar-22

Date	Day	No of Working Days	Particulars/Event
1	Tue	92	Cycle Test-II for I Semester
2	Wed	93	Third CCM for I Semester
3	Thurs	94	
4	Fri	95	
5	Sat	96	Submission of CCM-3 Report for I Semester
6	Sun		Holiday
7	Mon	97	
8	Tue	98	Last Working Day for I Semester
9	Wed		
10	Thurs		Commencement of University Practical Examinations for I Semester
11	Fri		
12	Sat		
13	Sun		Holiday
14	Mon		
15	Tue		
16	Wed		
17	Thurs		
18	Fri		
19	Sat		
20	Sun		Holiday
21	Mon		Commencement of University Theory Examinations for I Semester
22	Tue		
23	Wed		
24	Thurs		
25	Fri		
26	Sat		
27	Sun		Holiday
28	Mon		
29	Tue		
30	Wed		
31	Thurs		

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

COLLEGE - ACADEMIC CALENDAR -SECOND SEMESTER 2021-2022

Mar-22 Date	Day	No of Working Days	Particulars/Event	Apr-22 Date	Day	No of Working Days	Particulars/Event	May-22 Date	Day	No of Working Days	Particulars/Event	Jun-22 Date	Day	No of Working Days	Particulars/Event	Jul-22 Date	Day	No of Working Days	Particulars Event
1	Tue			1	Fri		VAC	1	Sun		May Day Holiday	1	Wed	47		1	Fri	73	Cycle Test - II for II Semester
2	Wed			2	Sat		Yugadi Holiday	2	Mon	22		2	Thurs	48		2	Sat	74	
3	Thurs			3	Sun		Holiday	3	Tue		Ramzan Holiday	3	Fri	49		3	Sun		Holiday
4	Fri			4	Mon	1	College Reopening for II Semester	4	Wed	23		4	Sat	50		4	Mon	75	Last Working Day for II Semester
5	Sat			5	Tue	2		5	Thurs	24		5	Sun		Holiday	5	Tue		
6	Sun		Holiday	6	Wed	3		6	Fri	25		6	Mon	51		6	Wed		Commencement of Practical Exams for II Semester (Tentative)
7	Mon			7	Thurs	4		7	Sat	26		7	Tue	52		7	Thurs		
8	Tue			8	Fri	5		8	Sun		Holiday	8	Wed	53		8	Fri		
9	Wed			9	Sat	6		9	Mon	27		9	Thurs	54		9	Sat		
10	Thurs			10	Sun		Holiday	10	Tue	28		10	Fri	55		10	Sun		Bakrid Holiday
11	Fri			11	Mon	7		11	Wed	29		11	Sat	56		11	Mon		
12	Sat			12	Tue	8		12	Thurs	30		12	Sun		Holiday	12	Tue		
13	Sun		Holiday	13	Wed	9		13	Fri	31	ICT Program	13	Mon	57		13	Wed		
14	Mon			14	Thurs		Tamil New Year Holiday	14	Sat	32		14	Tue	58		14	Thurs		
15	Tue			15	Fri		Good Friday Holiday	15	Sun		Holiday	15	Wed	59	Life skill programs for first year	15	Fri		
16	Wed			16	Sat		Holiday	16	Mon	33		16	Thurs	60		16	Sat		
17	Thurs			17	Sun		Holiday	17	Tue	34		17	Fri	61		17	Sun		Holiday
18	Fri			18	Mon	10		18	Wed	35	Cycle Test –I for II Semester	18	Sat	62		18	Mon		Commencement of University Exams for II Semester (Tentative)
19	Sat			19	Tue	11		19	Thurs	36		19	Sun		Holiday	19	Tue		
20	Sun		Holiday	20	Wed	12	First CCM for II Semester	20	Fri	37		20	Mon	63		20	Wed		
21	Mon			21	Thurs	13		21	Sat	38		21	Tue	64		21	Thurs		
22	Tue			22	Fri	14		22	Sun		Holiday	22	Wed	65	Third CCM for II Semester	22	Fri		
23	Wed			23	Sat	15	Submission of CCM-1 Report for II Semester	23	Mon	39		23	Thurs	66		23	Sat		
24	Thurs			24	Sun		Holiday	24	Tue	40		24	Fri	67		24	Sun		Holiday
25	Fri			25	Mon	16		25	Wed	41	SecondCCM for II Semester	25	Sat	68	Submission of CCM-3 Report for II Semester	25	Mon		
26	Sat			26	Tue	17		26	Thurs	42		26	Sun		Holiday	26	Tue		
27	Sun		Holiday	27	Wed	18		27	Fri	43		27	Mon	69		27	Wed		
28	Mon		VAC	28	Thurs	19		28	Sat	44	Submission of CCM-2 Report for II Semester	28	Tue	70	Cycle Test - II for II Semester	28	Thurs		
29	Tue		VAC	29	Fri	20		29	Sun		Holiday	29	Wed	71		29	Fri		
30	Wed		VAC	30	Sat	21		30	Mon	45		30	Sat	72		30	Sat		
31	Thurs		VAC					31	Tues	46						31	Sun		

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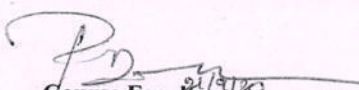# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

COLLEGE - ACADEMIC CALENDAR- FIRST SEMESTER 2022-2023

Nov-22				Dec-22				Jan-23				Feb-23				Mar-23				Apr-23			
Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event	Date	Day	No of Working Days	Particulars/Event
1	Tue			1	Thurs	22	FirstCCM for I Semester	1	Sun		Holiday	1	Wed	70		1	Wed	94		1	Sat		
2	Wed			2	Fri	23		2	Mon	48		2	Thu	71		2	Thurs	95		2	Sun		Holiday
3	Thurs			3	Sat	24		3	Tue	49		3	Fri	72		3	Fri	96		3	Mon		
4	Fri			4	Sun		Holiday	4	Wed	50		4	Sat	73		4	Sat	97		4	Tue		
5	Sat			5	Mon	25	Submission of CCM-1 Report for I Semester	5	Thurs	51	Cycle Test-I For I Year	5	Sun		Holiday	5	Sun		Holiday	5	Wed		Commencement of UniversityTheory Exam-III and IV Year - Tentative
6	Sun		Holiday	6	Tue	26		6	Fri	52		6	Mon	74		6	Mon	98		6	Thurs		
7	Mon	1	Induction Program for I Year - Starts	7	Wed	27		7	Sat	53		7	Tue	75	National Seminar	7	Tue	99		7	Fri		Good Friday
8	Tue	2	Life skill program for first years	8	Thurs	28		8	Sun		Holiday	8	Wed	76		8	Wed	100	Women's Day -	8	Sat		
9	Wed	3		9	Fri	29		9	Mon	54		9	Thurs	77		9	Thurs	101	Cultural Day Celebration	9	Sun		Holiday
10	Thurs	4		10	Sat	30		10	Tue	55		10	Fri	78		10	Fri	102		10	Mon		Local
11	Fri	5		11	Sun		Holiday	11	Wed	56		11	Sat	79		11	Sat	103		11	Tue		
12	Sat	6		12	Mon	31		12	Thurs	57		12	Sun		Holiday	12	Sun		Holiday	12	Wed		
13	Sun		Holiday	13	Tue	32		13	Fri	58		13	Mon	80		13	Mon	104		13	Thurs		
14	Mon	7	Commencement of Classes for I Semester	14	Wed	33	VAC	14	Sat		Religious Festivals- Holiday	14	Tue	81		14	Tue	105		14	Fri		Tamil New Year -
15	Tue	8		15	Thurs	34		15	Sun		Religious Festivals- Holiday	15	Wed	82		15	Wed	106		15	Sat		
16	Wed	9		16	Fri	35		16	Mon		Religious Festivals- Holiday	16	Thurs	83		16	Thurs	107	Cycle Test-II For I Year	16	Sun		Holiday
17	Thurs	10		17	Sat	36		17	Tue		Religious Festivals- Holiday	17	Fri	84		17	Fri	108		17	Mon		
18	Fri	11		18	Sun		Holiday	18	Wed	59		18	Sat	85		18	Sat	109		18	Tue		
19	Sat	12	IPR Program for I year	19	Mon	37		19	Thurs	60		19	Sun		Holiday	19	Sun		Holiday	19	Wed		
20	Sun		Holiday	20	Tue	38		20	Fri	61		20	Mon	86		20	Mon	110		20	Thurs		
21	Mon	13		21	Wed	39	Pre Cycle Test-I For I Year	21	Sat	62		21	Tue	87		21	Tue	111		21	Fri		
22	Tue	14		22	Thurs	40		22	Sun		Holiday	22	Wed	88		22	Wed		Telugu New Year	22	Sat		
23	Wed	15		23	Fri	41		23	Mon	63		23	Thurs	89	Language and communication skills& Skills	23	Thurs	112	Last working day for First Year	23	Sun		Holiday
24	Thurs	16		24	Sat		Holiday	24	Tue	64		24	Fri	90		24	Fri			24	Mon		
25	Fri	17		25	Sun		Christmas -Holiday	25	Wed	65	Second CCM for I Semester	25	Sat	91		25	Sat		Commencement ofUniversity Practical Exam-I Year	25	Tue		National conference
26	Sat	18		26	Mon	42		26	Thurs		Republic Day-Holiday	26	Sun		Holiday	26	Sun		Holiday	26	Wed		
27	Sun		Holiday	27	Tue	43		27	Fri	66	Submission of CCM-2 Report for I Semester	27	Mon	92		27	Mon			27	Thurs		
28	Mon	19		28	Wed	44		28	Sat	67		28	Tue	93		28	Tue			28	Fri		
29	Tue	20		29	Thurs	45		29	Sun		Holiday					29	Wed			29	Sat		
30	Wed	21		30	Fri	46	soft skill Training Program for all I Years	30	Mon	68						30	Thurs			30	Sun		
				31	Sat	47		31	Tue	69						31	Fri						

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

COLLEGE- ACADEMIC CALENDAR - SECOND SEMESTER 2022-2023

May-23

Date	Day	No of Working Days	Particulars/Event
1	Mon		May Day- Holiday
2	Tue		
3	Wed		VAC
4	Thur		
5	Fri		VAC
6	Sat		
7	Sun		Holiday
8	Mon		VAC
9	Tue		VAC
10	Wed	1	College Reopening for II Semester
11	Thur	2	
12	Fri	3	
13	Sat	4	
14	Sun		Holiday
15	Mon	5	
16	Tue	6	
17	Wed	7	
18	Thu	8	
19	Fri	9	
20	Sat	10	
21	Sun		Holiday
22	Mon	11	
23	Tue	12	First CCM for II Semester
24	Wed	13	
25	Thu	14	
26	Fri	15	Submission of CCM-1 Report for II Semester
27	Sat	16	
28	Sun		Holiday
29	Mon	17	
30	Tue	18	
31	Wed	19	

Jun-23

Date	Day	No of Working Days	Particulars/Event
1	Thur	20	
2	Fri	21	
3	Sat	22	
4	Sun		Holiday
5	Mon	23	
6	Tue	24	
7	Wed	25	
8	Thur	26	
9	Fri	27	
10	Sat	28	
11	Sun		Holiday
12	Mon	29	
13	Tue	30	
14	Wed	31	
15	Thu	32	
16	Fri	33	
17	Sat	34	
18	Sun		Holiday
19	Mon	35	
20	Tue	36	Language comunication Skill Program
21	Wed	37	
22	Thu	38	
23	Fri	39	Cycle Test –I for II Semester
24	Sat	40	
25	Sun		Holiday
26	Mon	41	Cycle Test –I for II Semester
27	Tue	42	
28	Wed	43	
29	Thurs		Bakrid-Holiday
30	Fri	44	Second CCM for II Semester

Jul-23

Date	Day	No of Working Days	Particulars/Event
1	Sat	45	
2	Sun		Holiday
3	Mon	46	Submission of CCM-2 Report for II Semester
4	Tue	47	
5	Wed	48	
6	Thurs	49	
7	Fri	50	
8	Sat	51	
9	Sun		Holiday
10	Mon	52	
11	Tue	53	
12	Wed	54	
13	Thurs	55	
14	Fri	56	
15	Sat	57	
16	Sun		Holiday
17	Mon	58	
18	Tue	59	
19	Wed	60	
20	Thurs	61	
21	Fri	62	
22	Sat	63	
23	Sun		Holiday
24	Mon	64	
25	Tue	65	
26	Wed	66	
27	Thurs	67	
28	Fri	68	
29	Sat		Muharram Holiday
30	Sun		Holiday
31	Mon	69	Cycle Test - II for II Semester

Aug-23

Date	Day	No of Working Days	Particulars/Event
1	Tue	70	Cycle Test - II for II Semester
2	Wed	71	
3	Thurs	72	
4	Fri	73	
5	Sat	74	Cycle Test - II for II Semester/ Third CCM for II Semester
6	Sun		Holiday
7	Mon	75	Last Working Day for II Semester/ Submission of CCM-3 Report for II Semester
8	Tue		
9	Wed		Commencement of Practical Exams for II Semester
10	Thurs		
11	Fri		
12	Sat		
13	Sun		Holiday
14	Mon		
15	Tue		Independence day Holiday
16	Wed		
17	Thurs		
18	Fri		
19	Sat		
20	Sun		Holiday
21	Mon		Commencement of University Exams for II Semester
22	Tue		
23	Wed		
24	Thurs		
25	Fri		
26	Sat		
27	Sun		Holiday
28	Mon		
29	Tue		
30	Wed		
31	Thurs		

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Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Circular of Internal Assessment-Cycle Test

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURICHI, PUDUKKOTTAI – 622 303.

<u>Circular</u>   Date: 15.03.2023

The First cycle test will be conducted from 20.03.2023 to 28.03.2023 for the IV, VI & VIII semester (II, III & IV year) students.

The following instructions are to be followed by the faculty members.

- Total marks for which the question paper to be set will be for 60 marks. **(PART A 10X2=20, PART B 2X13=26 & PART C 1X14=14)**

- It is the responsibility of the **question paper** setter to take the Xerox copies of the required number of question papers and it should be handed over to the Exam cell Coordinators Ms. G.Gayathri AP/ CIVIL / Mrs. G. Sugapriya AP/CSE along with **answer key** on or before **17.03.2023**.

- The Exam Coordinators (exam cell) are requested to make necessary arrangements (hall arrangements, invigilation duty etc.,) for conducting the test.

- Faculty members are requested to handover the valued answer scripts to the students on or before 29.03.2023 and the class in-charges are requested to send the consolidated mark sheet along with the attendance percentage (from 1st February 2023 to 28th March 2023) to the parents on or before 31.03.2023.

PRINCIPAL
15/03/23

Cc:
- All HoD's CIVIL/CSE/EEE/ECE
- All faculty
- IQAC Co-ordinator
- Exam cell
- Office file

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURICHI, PUDUKKOTTAI – 622 303.

Circular

Date: 15.03.2023

The First cycle test will be conducted from 20.03.2023 to 28.03.2023 for the IV semester (II year) B.E students for 60 marks as per the time table given below. Students are directed to prepare well and score good marks.

Date	10.00 am -12.00 noon
20-03-2023	CE3401- Applied Hydraulics Engineering (CIVIL) CS3491- Artificial Intelligence and Machine Learning (CSE) EE3402- Linear Integrated Circuits(EEE) EC3491- Communication Systems(ECE)
21-03-2023	CE3403- Concrete Technology (CIVIL) CS3492- Database Management Systems (CSE) EE3404- Microprocessor and Microcontroller(EEE) EC3401- Network and Security(ECE)
24-03-2023	CE3405- Highway and Railway Engineering (CIVIL) CS3401- Algorithms (CSE) EE3403- Measurements & Instruments(EEE) EC3492- Digital Signal Processing(ECE)
25-03-2023	CE3404 Soil Mechanics (CIVIL) CS3451- Introduction to Operating Systems (CSE) EE3405- Electrical Machines-II(EEE) EC3451- Linear Integrated Circuits(ECE)
27-03-2023	CE3402 -Strength Of Materials (CIVIL) CS3452- Theory of Computation(CSE) EE3401- Transmission and Distribution(EEE) EC3452- Electromagnetic Fields(ECE)
28-03-2023	GE3451- Environmental Science and Sustainability(CIVIL/CSE/EEE/ECE)

PRINCIPAL

15/03/23

Cc:
- All II year B.E Classes
- All faculty
- IQAC Co-ordinator
- Exam cell
- Notice Board
- Office file

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KAIKKURICHI, PUDUKKOTTAI – 622 303.

Circular

Date: 15.03.2023

The First cycle test will be conducted from 20.03.2023 to 28.03.2023 for the VI semester (III year) B.E students for 60 marks as per the time table given below. Students are directed to prepare well and score good marks.

Date	10.00 am -12.00 noon
20-03-2023	CE8601- Design of Steel Structural Elements (CIVIL) CS8602- Compiler Design (CSE) EE8691- Embedded Systems (EEE) EC8651- Transmission Lines and RF Systems (ECE)
21-03-2023	CS8601- Mobile Computing (CSE) MG8591- Principles of Management (ECE) EE8601- Solid State Drives (EEE)
24-03-2023	EN8592- Wastewater Engineering(CIVIL) CS8691- Artificial Intelligence (CSE) EE8005-Special Electrical Machines (EEE) EC8652- Wireless Communication (ECE)
25-03-2023	CE8602-Structural Analysis II (CIVIL) CS8603- Distributed Systems (CSE) EE8602- Protection and Switchgear (EEE) EC8691- Microprocessors and Microcontrollers (ECE)
27-03-2023	CE8604- Highway Engineering (CIVIL) CS8651- Internet Programming (CSE) EC8095- VLSI Design (ECE)
28-03-2023	CE8603- Irrigation Engineering (CIVIL)

PRINCIPAL 15/03/23

Cc:
- All III year B.E Classes
- All faculty
- IQAC Co-ordinator
- Exam cell
- Notice Board
- Office file

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Circular

Date: 15.03.2023

The First cycle test will be conducted on 20.03.2023 & 21.03.2023 for the VIII semester (IV Year) B.E students for 60 marks as per the time table given below. Students are directed to prepare well and score good marks.

Date	10.00 am -12.00 noon
20-03-2023	CE8021-Structural Dynamics and Earthquake Engineering (CIVIL) CS8080-Information retrieval Techniques (CSE) EE8018-Microcontroller Based System Design (EEE) EC8094- Satellite Communication (ECE)
21-03-2023	GE8076-Profession Ethics in Engineering (CIVIL/CSE/EEE/ECE)

PRINCIPAL 15/03/23

Cc:
- All IV year B.E Classes
- All faculty
- IQAC Co-ordinator
- Exam cell
- Notice Board
- Office file

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI, PUDUKKOTTAI – 622 303.

<u>Circular</u>   Date: 27.06.2023

Retest for First cycle test will be conducted from **30.06.2023** to **07.07.2023** for the II semester (I year) students.

The following instructions are to be followed by the faculty members.

- Total marks for which the question paper to be set will be for 50 marks. **(PART A** 5X2=10, **PART B** 2X13=26 **& PART C** 1X14=14**)**
- It is the responsibility of the **question paper** setter to take the Xerox copies of the required number of question papers.
- Concerned Faculty members are requested to conduct the examination as per the scheduled and handover the valued answer scripts to the students on or before 08.07.2023.

PRINCIPAL
27/06/23

Cc:
- All faculty
- IQAC Co-ordinator
- Exam cell
- Office file

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Circular

Date: 27.06.2023

Retest for First cycle test will be conducted from **30.06.2023** to **07.07.2023** for the II semester (I year) B.E students for **50 marks** as per the time table given below. Students are directed to prepare well and score good marks.

Date	4.00 pm -5.30 pm
30.06.2023	**BE3252**-Basic Electrical, Electronics and Instrumentation Engineering (CIVIL) **BE3251**-Basic Electrical and Electronics Engineering (CSE) **BE3255**-Basic Civil and Mechanical Engineering(EEE) **BE3254**-Electrical and Instrumentation Engineering (ECE)
01.07.2023	**MA3251**-Statistics and Numerical Methods (CIVIL,CSE,EEE & ECE)
03.07.2023	**PH3201**-Physics for Civil Engineering (CIVIL) **PH3256**-Physics for Information Science (CSE) **PH3202**-Physics for Electrical Engineering (EEE) **PH3254**-Physics for Electronics Engineering (ECE)
04.07.2023	**GE3251**-Engineering Graphics (CIVIL,CSE,EEE & ECE)
05.07.2023	**HS3251**-Professional English – II (CIVIL,CSE,EEE & ECE)
06.07.2023	**CS3251**-Programming in C (CSE) **EE3251**-Electric Circuit Analysis (EEE) **EC3251**-Circuit Analysis (ECE)
07.07.2023	**GE3252**-Tamils and Technology (CIVIL,CSE,EEE & ECE)

PRINCIPAL

27/06/2

Cc:
- All I year B.E Classes
- All faculty
- IQAC Co-ordinator
- Exam cell
- Notice Board
- Office file

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Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Cycle Test Question Paper

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
(Approved by AICTE, New Delhi and affiliated to Anna University, Chennai)
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle Test - II			Date/Session	24.09.20/FN	Marks	60
Course code	CE8591	Course Title	Foundation Engineering			
Regulation	2017	Duration	90 minutes	Academic Year	2020-2021 (Odd Sem)	
Year	III	Semester	V	Department	Civil	

COURSE OUTCOMES: At the end of the course student will be able to

C304.1	Explain the site investigation, methods and sampling.
C304.2	Explain the bearing capacity and testing methods.
C304.3	Design shallow footings.
C304.4	Determine the load carrying capacity, settlement of pile foundation.
C304.5	Determine the earth pressure on retaining walls using various theories
C304.6	Determine the stability analysis of retaining walls

Q.No.	Question	CO	BTL
	PART A		
	(Answer all the Questions 30 x 1 = 30 Marks)		
1	The total settlement of a footing in clay is considered to be consisting of _____ components. a) One b) Three c) Two d) Four	C304.3	K1
2	The component Sc, used in the total settlement of clay refers to which of the following? a) Total settlement b) Consolidation settlement c) Immediate plastic settlement d) Settlement due to secondary consolidation of clay	C304.3	K2
3	The immediate settlement can be computed from the expression, based on _____ a) Theory of plasticity b) Theory of elasticity c) Terzaghi's analysis d) Pressure distribution	C304.3	K1
4	The influence factor for rigid square footing is _____ a) 0.88 b) 0.82 c) 1.06 d) 1.70	C304.3	K2
5	The value of Es used in the immediate settlement equation can be found out using a) Triaxial test b) Compression test c) Direct shear test d) Rankine's theory	C304.3	K2
6	The maximum load which can be carried by a pile is defined as its _____ a) Ultimate load carrying capacity b) Ultimate bearing resistance c) Ultimate bearing capacity d) All of the mentioned	C304.4	K1

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7	The allowable load which the pile can carry safely is determined on the basis of _____ a) Factor of safety b) Load test c) Stability of the pile foundation d) All of the mentioned	C304.4	K2
8	The load carrying capacity of a pile can be determined by which of the following methods? a) Dynamic formulae b) Static formulae c) Plate load test d) All of the mentioned	C304.4	K2
9	When a pile hammer hits the pile, the total driving energy is equal to _____ a) Weight of hammer times the height of drop b) Weight of the ram time times the height of the stroke c) Sum of the impact of the ram d) Sum of the impact of ram plus the energy delivered by explosion	C304.4	K2
10	There are _____ types of bored piles. a) 4 b) 2 c) 5 d) 3	C304.4	K1
11	A combined footing may be rectangular in shape if both the columns carry _____ a) Unequal loads b) Equal loads c) No load d) All of the mentioned	C304.3	K1
12	The influence factor Iw for rigid rectangular footing with L/B = 1.5 is _____ a) 0.88 b) 0.82 c) 1.70 d) 1.06	C304.3	K1
13	The foundation that is used when the soil mass is sufficiently erratic? a) Strap footing b) Combined footing c) Mat footing d) Rectangular combined footing	C304.3	K2
14	Usually, rafts are designed as _____ a) Reinforced slabs b) Reinforced concrete flat slabs c) Ordinary concrete slab d) Inverted flat slabs	C304.3	K1
15	The weight of the raft is not considered in the structural design, because _____ a) Weight is carried by subsoil b) Raft does not remain contact with soil c) The weight is transferred to column d) All of the mentioned	C304.3	K1
16	The net ultimate bearing capacity for raft may be determined by _____ a) Skempton's equation and Terzaghi's equation b) Darcy's equation c) None of the mentioned d) All of the mentioned	C304.3	K2
17	In raft footing, if the C.G of the load coincide with the centroid of the raft, the upward load is considered as _____ a) Non uniform pressure	C304.3	K1

	b) Uniform pressure c) Excess pressure d) None of the mentioned			
18	Raft is subdivided in to series of beams to establish _____ a) Shear failure and Moment diagrams b) Pressure distribution c) None of the mentioned d) All of the mentioned	C304.3	K1
19	The penetration resistance N for designing of raft should be taken at _____ intervals. a) 50 cm b) 60 cm c) 75 cm d) 20 cm	C304.3	K1
20	If the penetration resistance N is less than 5, which of the following measures can be adopted? a) Using piles and piers and Compacting sand b) Using inverted flat slab c) None of the mentioned d) All of the mentioned	C304.3	K2
21	Both conventional and flexible method can be used only in the case when _____ a) Foundation is laid on cohesive soil b) Soil pressure is low c) Foundation is flexible d) Load is concentrated on larger area	C304.3	K2
22	The foundation that is used when the soil mass is sufficiently erratic? a) Strap footing b) Combined footing c) Mat footing d) Rectangular combined footing	C304.3	K2
23	If a maximum settlement of 50 mm is permitted for a raft, the differential settlement must not exceed _____ a) 30 mm b) 10 mm c) 20 mm d) 25 mm	C304.3	K1
24	Usually, rafts are designed as _____ a) Reinforced slabs b) Reinforced concrete flat slabs c) Ordinary concrete slab d) Inverted flat slabs	C304.3	K1
25	The weight of the raft is not considered in the structural design, because _____ a) Weight is carried by subsoil b) Raft does not remain contact with soil c) The weight is transferred to column d) All of the mentioned	C304.3	K1
26	In bored pile, concreting is done by using _____ a) Auger b) Casing tube c) Under-reamer d) Concrete plug	C304.4	K1
27	A major difference between the procedure of construction in bored piles and cast-in-situ driving piles is _____ a) Driving equipment	C304.4	K1

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	b) Method of driving c) Concrete filling d) None of the mentioned		
28	The type of bored pile that is suitable for congestion sites? a) Under-reamed piles b) Bored compaction piles c) Pressure piles d) Simplex piles	C304.4	K1
29	In pressure piles, the soil is excavated by _____ a) Casing tube b) Under-reamer c) Concrete plug d) All of the mentioned	C304.4	K1
30	When the under-reamed pile has only one bulb, it is called _____ a) Multi-under reamed pile b) Single-under reamed pile c) Unique-under reamed pile d) All of the mentioned	C304.4	K2

PART B
(Answer all the Questions 15 x 2 = 30 Marks)

31	The possible method adopted for designing of raft foundation is _____ a) Conventional method b) Elastic method c) Soil line method d) All of the mentioned	C304.3	K1
32	The conventional method for designing raft foundation is based on which of the following assumptions? a) Foundation is infinitely rigid and Soil pressure is assumed to be planar b) Overburden pressure is assumed as zero c) None of the mentioned d) All of the mentioned	C304.3	K2
33	The method that can be used for designing raft, based on elastic method? a) Simplified elastic foundation and Truly elastic foundation b) Conventional elastic foundation c) None of the mentioned d) All of the mentioned	C304.3	K2
34	In truly elastic foundation, the soil is assumed to be obey _____ a) Terzaghi's theory b) Hooke's law c) Skempton's theory d) All of the mentioned	C304.3	K1
35	Both conventional and flexible method can be used only in the case when _____ a) Foundation is laid on cohesive soil b) Soil pressure is low c) Foundation is flexible d) Load is concentrated on larger area	C304.3	K2
36	The modulus of subgrade reaction is applicable only when the load is applied through _____ a) Plate of size 30 ×30 cm and Beam 30 cm wide on soil area b) Plate size is 10 × 10 cm c) None of the mentioned d) All of the mentioned	C304.3	K2
37	In effect of shape method, the columns loads and bearing pressure distribution are divided into _____ system of forces. a) Two	C304.3	K1

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	b) Four c) Three d) Five			
38	The first system of forces consist of _____ a) Difference between actual column loads b) Varying distributed load acting downwards c) Column support reaction acting downwards d) All of the mentioned		C304.3	K1
39	The diameter of the under-reamed pile is kept equal to _____ times the diameter of pile steam. a) 4 b) 5 c) 2.5 d) 2		C304.4	K1
40	Under-reamed pile foundation is most suitable for _____ type of condition. a) Seasonal moisture change b) Dry conditioned soil c) Cohesive type of soil d) All of the mentioned		C304.4	K1
41	The load carrying capacity of a under-reamed pile may be determined by _____ a) Safe load test b) Penetration test c) Pile load test d) Cyclic load test		C304.4	K1
42	The under-reamed piles are connected by a beam known as _____ a) Capping beam and Grade beam b) Reamed beam c) None of the mentioned d) All of the mentioned		C304.4	K1
43	The spacing of the piles in under-reamed pile foundation depends on which of the following factor? a) Nature of the ground and Type of pile b) Load acting on the pile c) None of the mentioned d) All of the mentioned		C304.4	K2
44	In which of the following rule, the value of each pile is reduced by one-sixteenth? a) Converse Labarre formulae b) Feld's formulae c) Seiler-Keeney formulae d) All of the mentioned		C304.4	K2
45	The downward drag acting on a pile due to the movement of the surrounding is called a) Skin friction b) Negative skin friction c) Frictional force d) None of the mentioned		C304.4	K1

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Course Faculty

(Name /Sign / Date)

HoD/Civil

(Name /Sign / Date)

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle Test- I			Date/Session	11.09.2019/FN	Marks		60
Course code	MA8151	Course Title	Engineering Mathematics-I				
Regulation	2017	Duration	2 hours	Academic Year		2019-2020	
Year	I	Semester	I	Department		CSE	

COURSE OUTCOMES	
C102.1:	Apply the limit definition and rules of differentiation to differentiate functions.
C102.2:	Apply differentiation to solve maxima and minima problems.
C102.3:	Evaluate integrals both by using Riemann sums and by using the Fundamental Theorem of Calculus.
C102.4:	Apply integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables.
C102.5:	Evaluate integrals using techniques of integration, such as substitution, partial fractions and integration by parts.
C102.6:	Apply various techniques in solving differential equations.

Q.No.	Question	CO	BTS
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	Find the domain of a function $y = \sqrt{x+4}$.	C102.1	K3
2	Find $\lim_{x \to 0} \frac{1-cosx}{x}$.	C102.1	K3
3	Where are each of the following functions discontinuous $f(x) \frac{x^2-x-2}{x-2}$.	C102.1	K2
4	Find an equation of the tangent line to the parabola $y = x^2 - 8x + 9$ at the point (3,-6).	C102.1	K3
5	Find the domain of the function $g(x) = \frac{1}{x^2-x}$.	C102.1	K3
6	Given $u = x^2 tan^{-1}(y/x) - y^2 tan^{-1}(y/x)$. Find $x^2 u_{xx} + 2xy\, u_{xy} + y^2\, u_{yy}$.	C102.2	K3
7	State Euler's theorem.	C102.2	K1
8	If $u = sin^{-1}(\frac{x+y}{\sqrt{x}+\sqrt{y}})$. Show that $x\frac{\partial u}{\partial x} + y\frac{\partial u}{\partial y} = \frac{1}{2} tanu$.	C102.2	K3
9	Find the Jacobian of the transformation $u = \frac{2x-y}{2}, v = \frac{y}{2}$.	C102.2	K3
10	Find $u_{xx} + u_{yy} + u_{zz}$,if $u = \log(x^2 + y^2 + z^2)$.	C102.2	K3
	PART B **(Answer all the Questions 2 x 16 = 32 Marks and 1 x 8 = 8 marks)**		
11a	(i)If $f(x) = \begin{cases} 2x - 2 \ if \ x < -1 \\ ax + b \ if -1 < x < 1 \\ 5x + 7 \ if \ x \geq 1 \end{cases}$ is continuous for all real x, find the values of a and b. (08) (ii)If $y = sin^{-1}\left(\frac{2x}{1+x^2}\right), find \ \frac{dy}{dx}$. (08)	C102.1	K3

OR

11b	(i)If $x^y = e^{x-y}$, Prove that $\frac{dy}{dx} = \frac{\log x}{(1+\log x)^2}$.	(08)	C102.1	K3
	(ii)Evaluate $\lim_{x\to 1}\left[\frac{x}{x-1} - \frac{1}{\log x}\right]$.	(08)		
12a	(i) Evaluate $\lim_{x\to 1}\left(\frac{1}{x}\right)^{\tan x}$.	(08)	C102.1	K3
	ii)Verify Rolle's theorem for $f(x) = x(x+2)e^{-\frac{x}{2}}$ in the interval [-2,0].	(08)		
	OR			
12b	(i)Determine the absolute extrema for the function $f(x) = 2x^3 + 3x^2 - 12x + 4$ on [-4,2].	(08)	C102.1	K3
	(ii)find any local extrema of $x^4 - 8x^2$ using second derivative.	(08)		
13a	If $Z = f(x,y)$ where $x = r\cos\theta, y = r\sin\theta$. Show that $\left(\frac{\partial z}{\partial x}\right)^2 + \left(\frac{\partial z}{\partial y}\right)^2 = \left(\frac{\partial z}{\partial r}\right)^2 + \frac{1}{r^2}\left(\frac{\partial z}{\partial x}\right)^2$.	(08)	C102.2	K3
	OR			
13b	If $z = u(x,y)$ where $x = e^u \cos v$ and $y = e^u \sin v$, show that $y\frac{\partial z}{\partial u} + x\frac{\partial z}{\partial v} = e^{2u}\frac{\partial z}{\partial y}$. (08)		C102.2	K3

$\overset{\text{₉/₉/₁₉}}{\text{[R.DIVYA]}}$
Course Faculty
(Name /Sign / Date)

HoD 9/9/19
(Name /Sign / Date)

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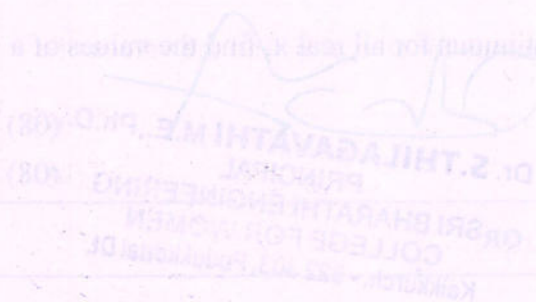
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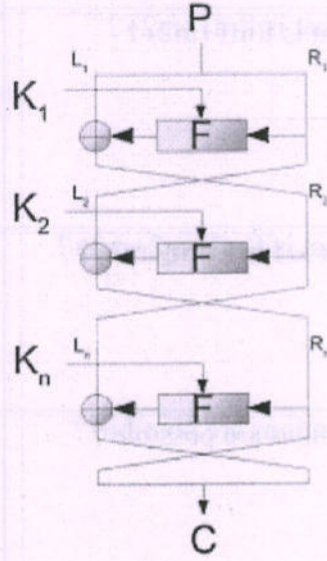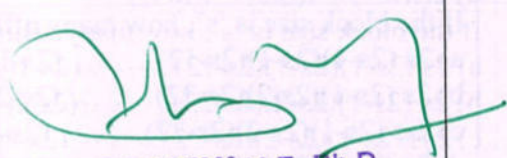### Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle Test - I			Date/Session	27.01.2020/AN	Marks		60
Course code	CE8601	Course Title	DESIGN OF STEEL STRUCTURAL ELEMENTS				
Regulation	2017	Duration	120 minutes	Academic Year		2019-2020(Even Sem)	
Year	III	Semester	VI	Department		Civil	

COURSE OUTCOMES

C310.1	explain the concepts of various design philosophies
C310.2	Design common bolted and welded connections for steel structures
C310.3	Design tension members and explain the effect of shear lag.
C310.4	explain the design concept of axially loaded columns and column base connections.
C310.5	explain specific problems related to the design of laterally restrained and unrestrained steel beams.
C310.6	Design of purlin in roof trusses and also design channel and I section purlins

Q.No.	Question	CO	BTL
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	Recall the recommendations as per IS 800:2007 the minimum pitch bolts in a row.	C310.1	K1
2	What is the allowable deflection of purlins and girder as per IS 800:2007 for the elastic cladding?	C310.1	K2
3	Are all imposed loads, gravity loads? Justify.	C310.1	K2
4	What is mean by composite construction?	C310.1	K2
5	Draw stress strain curve of mild steel and label the important points.	C310.1	K1
6	List three advantages of steel structures.	C310.1	K1
7	How is the ductility of steel measured?	C310.1	K2
8	Why the bolted connection will be 100% efficient?	C310.1	K2
9	Write the use of lug angle.	C310.2	K1
10	What is tension splice.	C310.2	K2
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
11.a	Explain about the partial safety factor for loads with respect to strength and serviceability and partial safety factors for materials for limit state method.	C310.1	K2
	OR		
11.b	What is mean by hot rolled sections? List out any 5 numbers of hot rolled sections with neat sketch and mark their salient features.	C310.1	K2
12.a	Explain the advantages of steel as a structural material.	C310.1	K2
	OR		
12.b	Explain the types of loads on structures and load combinations with respect to the code of practice.	C310.1	K2
	PART C **(Answer all the Questions 1 x 14 = 14 Marks)**		
13a	Two flats of size 220mm x10mm each are to be connected using 20mm diameter bolt of grade 4.6 by lap joint to carry force of 300KN. Design the joint. Take steel of grade Fe 410.	C310.2	K3

13b	Design a lap between the two plates each of width 120mm, if the thickness of one plate is 16mm and other is 12mm . The joint has to transfer a design load of 160KN. The plates are of Fe 410 Grade. Use bearing type bolts	C310.2	K3

G. ~ 24/01/2020

Course Faculty

(Name /Sign / Date)

R. ~ 24/1/20

HoD/Civil

(Name /Sign / Date)

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle test - I			Date/Session	24.07.19/FN	Marks	60
Course code	EC8553	Course Title	DISCRETE TIME SIGNAL PROCESSING			
Regulation	2017	Duration	2 HOURS	Academic Year	2019-2020	
Year	III	Semester	V	Department	ECE	

COURSE OUTCOMES

C302:1	To learn discrete Fourier transforms, properties of DFT and its application to linear filtering
C302:2	To analyze the characteristics of digital filters, design digital IIR and FIR filters and apply these filters to filter undesirable signals in various frequency bands.
C302:3	To describe the effects of finite precision representation on digital filters
C302:4	To evaluate the fundamental concepts of finite word length effects and its applications
C302:5	Explain the functionalities and architecture of DSP processors.
C302:6	To Introduce the concepts of adaptive filters and its application to communication Engineering

Q.No.	Question	CO	BTS
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	What is meant by decimation in frequency algorithm	C302.1	K1
2	Identify the advantages of FFT over DFT.	C302.1	K1
3	State and prove periodicity property of DFT	C302.1	K2
4	How can we calculate IDFT using FFT algorithm	C302.1	K1
5	Give the bilinear transform equation between S-plane and Z-plane.	C302.2	K5
6	Distinguish between Butterworth filter and Chebyshev filter	C302.2	K1
7	Write the different methods used in Frequency transformation?	C302.2	K1
8	What are the advantages and disadvantages of digital filters?	C302.2	K1
9	List out the denominator polynomials of Butterworth filter	C302.2	K1
10	Write four methods used to design a IIR Filter from analog filter	C302.2	K6
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
11a	Determine the output response y(n) if h (n)={1,1,1}: x(n)={1,2,3,1} by using linear convolution and circular convolution (13)	C302.1	K1
	OR		
11b	Compute that the DFT of the sequence x(n)=e^{-n} , $0 \leq n \leq 4$ =0 , $5 \leq n \leq 7$ (13)	C302.1	K3
12a	Find the DFT of the sequence x[n]=1 for $0 \leq n \leq 2$ =0 otherwise for N=4. And plot |x(k)| and angle of x(k) (13)	C302.1	K2
	OR		
12b	Find the 8-point DFT of the sequence x(n)={2,2,1,1,1,1} using DIT FFT algorithm (13)	C302.1	K1
	PART C **(Answer all the Questions 1 x 14 = 14 Marks)**		
13a	Design a third order Butterworth digital filter using impulse invariant technique. Assume sampling period T=1sec. (14)	C302.2	K5
	OR		
13b	Design a Butterworth LPF for the following specification using IIT method for given normalized transfer function. $0.7 \leq | H(e^{jw})| \leq 1; \ 0 \leq w \leq 0.2\pi$ $|H(e^{jw})| \leq 0.3; \ 0.6\pi \leq w \leq \pi$ (14)	C302.2	K5

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Cycle test - II			Date/Session	31.10.2018/AN	Marks		50
Course code	CY8151	Course Title		Engineering chemistry			
Regulation	2017	Duration	1.30 hours	Academic Year		2018-2019	
Year	2018	Semester	I	Department		CSE	

COURSE OUTCOMES	
CO104.1:	Summarize the water related problems in boilers and their treatment techniques.
CO104.2:	Discuss the applications of adsorption in the field of water and air pollution abatement.
CO104.3:	Discuss the types of catalysis and the mechanism of enzyme catalysis
CO104.4:	Associate phase rule in the alloying and the behavior of one component and two component systems using phase diagram
CO104.5:	Explain various types of fuels, their manufacturing processes and calculation of calorific theoretically
CO104.6:	Summarize the principles and generation of energy in batteries ,nuclear reactors, solar cells, wind mills and fuel cells

Q.No.	Question	CO	BTS
	PART A		
	(Answer all the Questions 10 x 2 = 20 Marks)		
1	What are promotors and catalytic poisoning? Give examples.	CO104.2	K2
2	Write a rate law for unimolecular surface reaction at low temperature.	CO104.2	K1
3	Define the term catalyst.	CO104.2	K1
4	List any four characteristics of enzyme catalysis.	CO104.2	K1
5	What are the objictives of heat treatment of alloys?	CO104.3	K2
6	What is meant by 18/8 stainless steel?	CO104.3	K2
7	Define the number of phase, component and degree of freedom for the following system. i) $PCl_{5(g)} \leftrightarrow PCl_{3(g)} + Cl_{2(g)}$ ii) $CaCO_{3(s)} \leftrightarrow CaO_{(s)} + CO_{2(s)}$ iii) Ice $_{(s)} \leftrightarrow$ Water $_{(l)} \leftrightarrow$ Vapour $_{(g)}$	CO104.3	K3
8	What is an eutectic point?	CO104.3	K2
9	Write down the condensed phase rule.	CO104.3	K1
PART B			
	(Answer all the Questions 2 x 16 = 20 Marks)		
10a	(i) Explain the contact theory of catalysis. (ii) Derive the kinetic equation of Langmuir – Hinshelwood Mechanism.	CO104.3	K3
	OR		
10b	(i) Discuss the role of activated carbon in the abetment of air pollution and waste water treatment. (ii) Derive Michaeli's-Menten equation.	CO104.3	K3

11a	(i) Discuss the heat treatment of Steel in details.	CO104.3	K2
	(ii) Give the composition and uses of the following alloys.		
	1) Nichrome		
	2) Stainless steel		

OR

| 11b | (i) Discuss the phase diagram of lead-Silver system and explain briefly write about Pattinson's process. | CO104.3 | K2 |
| | (ii) Discuss the phase diagram of water system and explain the characteristics | | |

Course Faculty

(Name /Sign / Date)

30/10/18

HoD

(Name /Sign / Date)

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PUDUKKOTTAI - 622 303.

30/10/18
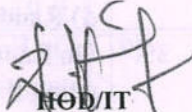
Dr. S.THILAGAVATHI M.E.,Ph.D.,
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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
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KAIKKURICHI, PUDUKKOTTAI- 622 303.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADAMIC YEAR -ODD SEM (2020-2021)
CS8792 CYPTOGRAPHY AND NETWORK SECURITY
CYCLE TEST-II
PART A(30*1=30)

SL.NO	QUESTIONS	COURSE OUTCOME
1.	What is the general equation for elliptic curve systems? a) y3+b_1 xy+b_2 y=x33+a_1 x2+a_2 x+a_3 b) y3+b_1 x+b_2 y=x2+a_1 x2+a_2 x+a_3 c) y2+b_1 xy+b_2 y=x3+a_1 x2+a_2 d) y2+b_1 xy+b_2 y=x3+a_1 x2+a_2 x+a_3	C402.3
2.	. In Singular elliptic curve, the equation x^3+ax+b=0 does ____ roots. a) does not have three distinct b) has three distinct c) has three unique d) has three distinct unique	C402.3
3.	How many real and imaginary roots does the equation y2=x3-1 have a) 2 real, 1 imaginary b) all real c) all imaginary d) 2 imaginary, 1 real	C402.3
4.	. How many real and imaginary roots does the equation y2=x3-4x have a) 2 real, 1 imaginary b) all real c) all imaginary d) 2 imaginary, 1 real	C402.3
5.	In the elliptic curve group defined by y2= x3- 17x + 16 over real numbers, what is P + Q if P = (0,-4) and Q = (1, 0)? a) (15, -56) b) (-23, -43) c) (69, 26) d) (12, -86)	C402.3
6.	In the elliptic curve group defined by y2= x3- 17x + 16 over real numbers, what is 2P if P = (4, 3.464)? a) (12.022, -39.362) b) (32.022, 42.249) c) (11.694, -43.723) d) (43.022, 39.362)	C402.3
7.	Elliptic curve cryptography follows the associative property." a) True b) False	C402.3

8.	"In ECC, the inverse of point P =(x1, y1) is Q = (-x1, y1). " a) True b) False	C402.3
9.	On adding the two points P (4,2) and Q (10, 6) in the elliptic curve E11(1,1) we get a) (9,3) b) (6,4) c) (7,5) d) (2,8)	C402.3
10.	If P = (1,4) in the elliptic curve E13(1, 1) , then 4P is a) (4, 2) b) (7, 0) c) (5, 1) d) (8, 1)	C402.3
11.	Multiply the point P=(8, 1) by a constant 3, thus find 3P, in the elliptic curve E13(1, 1) a) (10,7) b) (12,6) c) (11,1) d) (9,8)	C402.3
12.	Bob selects E67(2, 3) as the elliptic curve over GF(p). He selects e1 = (2, 22) and d = 4. Then he calculates e2 = d × e1 .What is the value of e2? a) (23,49) b) (16,55) c) (12,19) d) (13,45)	C402.3
13.	Bob selects E67(2, 3) as the elliptic curve over GF(p). He selects e1 = (2, 22) and d = 4. Then he calculates e2 = d × e1 and the publicly announces the tuple (E, e1, e2). Now, Alice wants to send the plaintext P = (24, 26) to Bob and she selects r = 2. What are C1 and C2? a) C1=(35,1) ; C2 =(21,44) b) C1=(44,21) ; C2 =(1,35) c) C1=(44,21) ; C2 =(44,21) d) C1=(21,44); C2 =(35,1)	C402.3
14.	P = C1 – (d x C2) Is this above stated formula true with respect to ECC? a) True b) False	C402.3
15.	. For the point P (11, 2) defined in the curve E13(1, 1). What is –P? a) (12,4) b) (10,7) c) (11,11) d) (11,12)	C402.3
16.	For the point P (7, 0) defined in the curve E13(1, 1). What is –P? a) (7,1)	C402.3

	b) (8,12) c) (8,1) d) (7,0)	
17.	Public key encryption/decryption is not preferred because a) it is slow b) it is hardware/software intensive c) it has a high computational load d) all of the mentioned	C402.3
18.	. Which one of the following is not a public key distribution means? a) Public-Key Certificates b) Hashing Certificates c) Publicly available directories d) Public-Key authority	C402.3
19.	What is the PGP stand for? a) Permuted Gap Permission b) Permuted Great Privacy c) Pretty Good Permission d) None of the mentioned	C402.3
20.	PGP makes use of which cryptographic algorithm? a) DES b) AES c) RSA d) Rabin	C402.3
21.	USENET is related to which of the following Public Key distribution schemes? a) Public-Key Certificates b) Public announcements c) Publicly available directories d) Public-Key authority	C402.4
22.	Which of the following public key distribution systems is most secure? a) Public-Key Certificates b) Public announcements c) Publicly available directories d) Public-Key authority	C402.4
23.	Which systems use a timestamp? i) Public-Key Certificates ii) Public announcements iii) Publicly available directories iv) Public-Key authority a) i) and ii) b) iii) and iv) c) i) and iv) d) iv) only	C402.4
24.	Which of these systems use timestamps as an expiration date? a) Public-Key Certificates b) Public announcements c) Publicly available directories d) Public-Key authority	C402.4

25.	Which system uses a trusted third party interface? a) Public-Key Certificates b) Public announcements c) Publicly available directories d) Public-Key authority	C402.4
26.	Publicly Available directory is more secure than which other system? a) Public-Key Certificates b) Public announcements c) Public-Key authority d) None of the mentioned	C402.4
27.	The registers 'a' and 'e' involve a) Permutation and substitution both b) Only Permutation c) Only substitution d) Don't undergo any operations	C402.4
28.	Among the registers 'a' to 'h' how many involve permutation in each round? a) 4 b) 5 c) 6 d) 3	C402.4
29.	What does the figure represent? a) Compression function b) Message digest generation using SHA c) Elementary SHA operation for single round d) Processing of a single 1024 bit block	C402.4
30.	The output of the N 1024-bit blocks from the Nth stage is a) 512 bits b) 1024 bits c) N x 1024bits d) N x 512 bits	C402.4
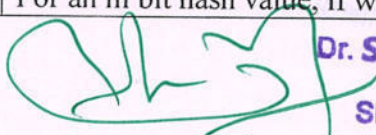
PART B(15*2=30)

31.	In the SHA-512 processing of a single 1024- bit block, the round constants are obtained a) by taking the first 64 bits of the fractional parts of the cube roots of the first 80 prime numbers b) by taking the first 64 bits of the fractional parts of the cube roots of the first 64 prime numbers c) by taking the first 64 bits of the fractional parts of the square roots of the first 80 prime numbers d) by taking the first 64 bits of the non-fractional parts of the first 80 prime numbers	C402.5
32.	What is the size of W (in bits) in the SHA-512 processing of a single 1024- bit block?	C402.5

		a) 64 b) 128 c) 512 d) 256	
33.		In SHA-512, the registers 'a' to 'h' are obtained by taking the first 64 bits of the fractional parts of the cube roots of the first 8 prime numbers. a) True b) False	C402.5
34.		The big-endian format is one in which a) the least significant byte is stored in the low-address byte position b) the least significant byte is stored in the high-address byte position c) the most significant byte is stored in the high-address byte position d) the most significant byte is stored in the low-address byte position	C402.5
35.		The message in SHA-512 is padded so that it's length is a) 832 mod 1024 b) 768 mod 1024 c) 960 mod 1024 d) 896 mod 1024	C402.5
36.		What is the maximum length of the message (in bits) that can be taken by SHA-512? a) 2^{128} b) 2^{256} c) 2^{64} d) 2^{192}	C402.5
37.		In SHA-512, the message is divided into blocks of size ___ bits for the hash computation. a) 1024 b) 512 c) 256 d) 1248	C402.5
38.		What is the number of round computation steps in the SHA-256 algorithm? a) 80 b) 76 c) 64 d) 70	C402.5
39.		SHA-1 produces a hash value of a) 256 bits b) 160 bits c) 180 bits d) 128 bits	C402.5
40.		Which attack requires the least effort/computations? a) Pre-image b) Second Pre-image c) Collision d) All required the same effort	C402.5
41.		For an m bit hash value, if we pick data blocks at random we can expect	C402.5

	to find two data blocks with the same hash value within ____ attempts. a) 2m b) 2(m-1) c) 2(m/2) d) (2m) – 1		
42.	For an m-bit value, the adversary would have to try _____ values to generates a given hash value h. a) 2m b) 2(m-1) c) 2(m/2) d) (2m) – 1		C402.5
43.	A function that is second pre-image resistant is also collision resistant. a) True b) False		C402.5
44.	The second pre-image resistant property is a) It is computationally infeasible to find any pair (x, y) such that H(x) = H(y) b) For any given block x, it is computationally infeasible to find y not equal to x, with H(y) = H(x) c) For any given hash value h it is computationally infeasible to find y such that H(y) = h d) None of the mentioned		C402.5
45.	Consider the following properties Variable Input size Fixed Output size Efficiency Pre image resistant Second Pre image Resistant Collision resistant Pseudo randomness A has function that satisfies the first _____ properties in the above table is referred to as a weak hash function. a) 5 b) 4 c) 3 d) 2		C402.5

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HoD / CSE

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle test - II			Date/Session	31.10.2018/AN	Marks		50
Course code	CY8151	Course Title		Engineering chemistry			
Regulation	2017	Duration	1.30 hours	Academic Year		2018-2019	
Year	2018	Semester	I	Department		CSE	

COURSE OUTCOMES	
CO104.1:	Summarize the water related problems in boilers and their treatment techniques.
CO104.2:	Discuss the applications of adsorption in the field of water and air pollution abatement.
CO104.3:	Discuss the types of catalysis and the mechanism of enzyme catalysis
CO104.4:	Associate phase rule in the alloying and the behavior of one component and two component systems using phase diagram
CO104.5:	Explain various types of fuels, their manufacturing processes and calculation of calorific theoretically
CO104.6:	Summarize the principles and generation of energy in batteries ,nuclear reactors, solar cells, wind mills and fuel cells

Q.No.	Question	CO	BTS
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	What are promotors and catalytic poisoning? Give examples.	CO104.2	K2
2	Write a rate law for unimolecular surface reaction at low temperature.	CO104.2	K1
3	Define the term catalyst.	CO104.2	K1
4	List any four characteristics of enzyme catalysis.	CO104.2	K1
5	What are the objictives of heat treatment of alloys?	CO104.3	K2
6	What is meant by 18/8 stainless steel?	CO104.3	K2
7	Define the number of phase, component and degree of freedom for the following system. i) $PCl_{5(g)} \leftrightarrow PCl_{3(g)} + Cl_{2(g)}$ ii) $CaCO_{3(s)} \leftrightarrow CaO_{(s)} + CO_{2(s)}$ iii) $Ice_{(s)} \leftrightarrow Water_{(l)} \leftrightarrow Vapour_{(g)}$	CO104.3	K3
8	What is an eutectic point?	CO104.3	K2
9	Write down the condensed phase rule.	CO104.3	K1
PART B			
	(Answer all the Questions 2 x 16 = 20 Marks)		
10a	(i) Explain the contact theory of catalysis. (ii) Derive the kinetic equation of Langmuir – Hinshelwood Mechanism.	CO104.3	K3
	OR		
10b	(i) Discuss the role of activated carbon in the abetment of air pollution and waste water treatment. (ii) Derive Michaeli's-Menten equation.	CO104.3	K3

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11a	(i) Discuss the heat treatment of Steel in details.	CO104.3	K2
	(ii) Give the composition and uses of the following alloys.		
	1) Nichrome		
	2) Stainless steel		
	OR		
11b	(i) Discuss the phase diagram of lead-Silver system and explain briefly write about Pattinson's process.	CO104.3	K2
	(ii) Discuss the phase diagram of water system and explain the characteristics		

Course Faculty

(Name /Sign / Date)

HoD

(Name /Sign / Date)

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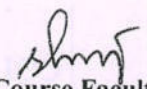SRI BHARATHI ENGINEERING
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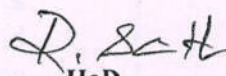# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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KAIKKURICHI, PUDUKKOTTAI- 622 303.

DEPARTMENT OF INFORMATION TECHNOLOGY

ACADAMIC YEAR -ODD SEM (2020-2021)
CS8792 CYPTOGRAPHY AND NETWORK SECURITY
CYCLE TEST-I
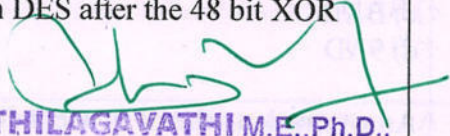
PART-A(30*1=30)

SL.NO	QUESTIONS	COURSE OUTCOME
1.	In affine block cipher systems if f(m)=Am + t, what is f(m1+m2) ? a) f(m1) + f(m2) + t b) f(m1) + f(m2) + 2t c) f(m1) + t d) f(m1) + f(m2)	C402.2
2.	In affine block cipher systems if f(m)=Am + t, what is f(m1+m2+m3) ? a) f(m1) + f(m2) + f(m3) + t b) f(m1) + f(m2) + f(m3) +2t c) f(m1) + f(m2) + f(m3) d) 2(f(m1) + f(m2) + f(m3)	C402.2
3.	If the block size is 's', how many affine transformations are possible ? a) 2s (2s-1)(2s-1)(2s-12)………(2s-1(s-1)) b) 2s (2s-1)(2s-2)(2s-22)………(2s-2(s-2)) c) 2ss (2s-1)(2s-2)(2s-22)………(2s-2(s-1)) d) 2s (2s-1)(2s-2)(2s-22)………(2s-2(s-3))	C402.2
4.	What is the number of possible 3 x 3 affine cipher transformations ? a) 168 b) 840 c) 1024 d) 1344	C402.2
5.	Super-Encipherment using two affine transformations results in another affine transformation. a) True b) False	C402.2
6.	If the key is 110100001, the output of the SP network for the plaintext: 101110001 is a) 110100011 b) 110101110 c) 010110111 d) 011111010	C402.2
7.	If the key is 110100001 where, If ki=0, then S_i (x)=((1 1 0 | 0 1 1 | 1 0 0))x+((1 1 1)) and If ki=1, then S_i (x)=((0 1 1 | 1 0 1 | 1 0 0))x+((0 1 1)) then the output of the SP network for the plaintext: 101110001 is a) 010110011	C402.2

	b) 111000011 c) 110110111 d) 010110110	
8.	Confusion hides the relationship between the ciphertext and the plaintext. a) True b) False	C402.2
9.	The S-Box is used to provide confusion, as it is dependent on the unknown key. a) True b) False	C402.2
10.	This is an example of a) SP Networks b) Feistel Cipher c) Hash Algorithm d) Hill Cipher	C402.2
11.	Which of the following slows the cryptographic algorithm – 1) Increase in Number of rounds 2) Decrease in Block size 3) Decrease in Key Size 4) Increase in Sub key Generation a) 1 and 3 b) 2 and 3 c) 3 and 4 d) 2 and 4	C402.2
12.	DES follows a) Hash Algorithm b) Caesars Cipher c) Feistel Cipher Structure d) SP Networks	C402.2
13.	The DES Algorithm Cipher System consists of _____rounds (iterations) each with a round key	C402.2

	a) 12 b) 18 c) 9 d) 16		
14.	The DES algorithm has a key length of a) 128 Bits b) 32 Bits c) 64 Bits d) 16 Bits	C402.2	
15.	In the DES algorithm, although the key size is 64 bits only 48bits are used for the encryption procedure, the rest are parity bits. a) True b) False	C402.2	
16.	In the DES algorithm the round key is _____ bit and the Round Input is _____ bits. a) 48, 32 b) 64,32 c) 56, 24 d) 32, 32	C402.2	
17.	In the DES algorithm the Round Input is 32 bits, which is expanded to 48 bits via _____ a) Scaling of the existing bits b) Duplication of the existing bits c) Addition of zeros d) Addition of ones	C402.2	
18.	The Initial Permutation table/matrix is of size a) 16×8 b) 12×8 c) 8×8 d) 4×8	C402.2	
19.	The number of unique substitution boxes in DES after the 48 bit XOR operation are a) 8 b) 4 c) 6 d) 12	C402.2	
20.	In the DES algorithm the 64 bit key input is shortened to 56 bits by ignoring every 4th bit. a) True b) False	C402.2	
21.	In brute force attack, on average half of all possible keys must be tried to achieve success. a) True b) False	C402.1	

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22.	If the sender and receiver use different keys, the system is referred to as conventional cipher system. a) True b) False	C402.1
23.	Divide (HAPPY)26 by (SAD)26. We get quotient – a) KD b) LD c) JC d) MC	C402.1
24.	Dividing (11001001) by (100111) gives remainder – a) 11 b) 111 c) 101 d) 110	C402.1
25.	. pi in terms of base 26 is a) C.DRS b) D.SQR c) D.DRS d) D.DSS	C402.1
26.	The time required to convert a k-bit integer to its representation in the base 10 in terms of big-O notation is a) O(log2 n) b) O(log n) c) O(log2 2n) d) O(2log n)	C402.1
27.	In base 26, multiplication of YES by NO gives – a) THWOE b) MPAHT c) MPJNS d) THWAE	C402.1
28.	. Division of (131B6C3) base 16 by (1A2F) base 16 yeilds – a) 1AD b) DAD c) BAD d) 9AD	C402.1
29.	An encryption scheme is unconditionally secure if the ciphertext generated does not contain enough information to determine uniquely the corresponding plaintext, no matter how much cipher text is available. a) True b) False	C402.1
30.	The estimated computations required to crack a password of 6 characters from the 26 letter alphabet is- a) 308915776 b) 11881376 c) 456976 d) 8031810176	C402.1

31.	Reduce the following big-O natations: $O[ax^7 + 3x^3 + \sin(x)] =$ a) $O[ax^7]$. b) $O[\sin(x)]$. c) $O[x^7]$. d) $O[x^7 + x^3]$.	C402.1
32.	Reduce the following big-O natations: $O[e^n + an^{10}] =$ a) $O[an^{10}]$. b) $O[n^{10}]$. c) $O[e^n]$. d) $O[e^n + n^{10}]$.	C402.1
33.	Reduce the following big-O natations: $O[n! + n^{50}] =$ a) $O[n! + n^{50}]$. b) $O[n!]$. c) $O[n^{50}]$. d) None of the Mentioned	C402.1
34.	Use Caesar's Cipher to decipher the following HQFUBSWHG WHAW a) ABANDONED LOCK b) ENCRYPTED TEXT c) ABANDONED TEXT d) ENCRYPTED LOCK	C402.1
35.	Caesar Cipher is an example of a) Poly-alphabetic Cipher b) Mono-alphabetic Cipher c) Multi-alphabetic Cipher d) Bi-alphabetic Cipher	C402.1
36.	Monoalphabetic ciphers are stronger than Polyalphabetic ciphers because frequency analysis is tougher on the former. a) True b) False	C402.1
37.	Which are the most frequently found letters in the English language ? a) e,a b) e,o c) e,t d) e,i	C402.1
38.	Choose from among the following cipher systems, from best to the worst, with respect to ease of decryption using frequency analysis. a) Random Polyalphabetic, Plaintext, Playfair b) Random Polyalphabetic, Playfair, Vignere c) Random Polyalphabetic, Vignere, Playfair, Plaintext d) Random Polyalphabetic, Plaintext, Beaufort, Playfair	C402.1
39.	On Encrypting "thepepsiisintherefrigerator" using Vignere Cipher System using the keyword "HUMOR" we get cipher text- a) abqdnwewuwjphfvrrtrfznsdokvl b) abqdvmwuwjphfvvyyrfznydokvl	C402.1

	c) tbqyrvmwuwjphfvvyyrfznydokvl d) baiuvmwuwjphfoeiyrfznydokvl	
40.	On Encrypting "cryptography" using Vignere Cipher System using the keyword "LUCKY" we get cipher text a) nlazeiibljji b) nlazeiibljii c) olaaeiibljki d) mlaaeiibljki	C402.1
41.	The Index of Coincidence for English language is approximately a) 0.068 b) 0.038 c) 0.065 d) 0.048	C402.1
42.	If all letters have the same chance of being chosen, the IC is approximately a) 0.065 b) 0.035 c) 0.048 d) 0.038	C402.1
43.	Consider the cipher text message with relative frequencies: 4 0 10 25 5 32 24 15 6 11 5 5 1 2 6 6 15 19 10 0 6 28 8 2 3 2 The Index of Coincidence is a) 0.065 b) 0.048 c) 0.067 d) 0.042	C402.1
44.	Consider the cipher text message: YJIHX RVHKK KSKHK IQQEV IFLRK QUZVA EVFYZ RVFBX UKGBP KYVVB QTAJK TGBQO ISGHU CWIKX QUXIH DUGIU LMWKG CHXJV WEKIH HEHGR EXXSF DMIIL UPSLW UPSLW AJKTR WTOWP IVXBW NPTGW EKBYU SBQWS Relative Frequencies – 3 7 2 2 5 5 7 9 11 4 14 4 2 1 3 4 6 5 6 5 7 10 9 8 4 2 The Index of Coincidence is – a) 0.065 b) 0.048 c) 0.067 d) 0.044	C402.1
45.	A symmetric cipher system has an IC of 0.041. What is the length of the key 'm'? a) 1 b) 3 c) 2 d) 5	C402.1

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Cycle Test - II			Date/Session	21.04.21/FN	Marks		60
Course code	EE8401	Course Title	ELECTRICAL MACHINES II				
Regulation	2017	Duration	90 minutes		Academic Year	2020 - 2021	
Year	II	Semester	IV		Department	EEE	

COURSE OUTCOMES

C204.1	Ability to construe the construction and working principle of Synchronous generator
C204.2	Ability to interpret MMF curves and armature windings
C204.3	Ability to acquire knowledge on Synchronous motor
C204.4	Ability to infer the construction and working principle of Three phase Induction Motor.
C204.5	Ability to construe the construction and working principle of Special Machines.
C204.6	Ability to predetermine the performance characteristics of Synchronous Machines.

Q.No.	Question	CO	BTS
	PART A (Answer all the Questions 30 x 01 = 30 Marks)		
1	A single-phase induction motor is A Self-starting B Not self-starting C Self-starting with the help of an auxiliary winding D None of the above	C204.4	K1
2	A single-phase induction motor is running at N rpm. Its synchronous speed is Ns. If its slip with respect to forward field is s, what is the slip with respect to the backward field? A s B -s C (1 - s) D (2 - s)	C204.5	K2
3	A rotating magnetic field is produced by current is two windings displaced by 90 electrical degrees. This is the principle of A Phase sequences B Phase splitting C Phase timing D None of these	C204.5	K1
4	In a 3-phase, 4-pole, 50 Hz Induction motor, the frequency, pole number and load torque all are halved. The motor speed will be A. 3000 r.p.m. B. 1500 r.p.m. C. 750 r.p.m. D. None of the above	C204.4	K1
5	The no load current of a single-phase induction motor is around _____% of full load current A 10 B 20 C 40 D 80	C204.5	K2
6	The power factor at which single phase induction motors usually operate is A 0.7 lag	C204.4	K2

	B 0.8 lag C 0.7 lead D Unity		
7	The angle between the rotating stator flux and rotor poles is called _____ angle. A.Torque B.Obtuse C.Synchronizing D.Power factor	C204.4	K1
8	Single phase induction motors are made self-starting by A Increasing rotor resistance B Using an external starting device C Providing an additional winding on the stator called the auxiliary winding D Any of the above methods	C204.4	K3
9	The power factor of a synchronous motor is better than that of induction motor because A.Stator supply is relieved of responsibility of producing magnetic field B.Mechanical load on the motor can be adjusted C.Synchronous motor runs at synchronous speed D.Synchronous motor has large air gap	C204.4	K1
10	The stator winding of a single-phase induction motor is splatted into two parts in order to A Improve efficiency B Improve power factor C Develop starting torque D Increase speed	C204.4	K3
11	In a single-phase induction motor A Both the main and auxiliary windings are placed on stator B Both the main and auxiliary windings are placed on rotor C Main winding is placed on stator and auxiliary winding on rotor D Auxiliary winding is placed on stator and main winding on rotor	C204.5	K1
12	Phase splitting can be accomplished in a single-phase induction motor. A Only by adding capacitor in series with the auxiliary winding B Only by causing the auxiliary winding to have high reactance C Only by causing the auxiliary winding to have low resistance D By any one of the above three methods	C204.5	K1
13	In a split phase motor, the ratio of number of turns of auxiliary winding to that on main winding is A Unity B Less than one C More than one D Two	C204.5	K5
14	Why is a centrifugal switch used in a single-phase induction motor? A To protect the motor from overloading B To improve the starting performance of the motor C To cut off the starting winding at an appropriate instant D To cut in the capacitor during running conditions.	C204.4	K1
15	Centrifugal switch fitted on the rotor will operate when A Rotor speed reaches its rated conditions B Rotor speed exceeds 70 per cent of its rated value C Rotor speed exceeds synchronous speed D Rotor speed exceeds 40 per cent of its rated value	C204.5	K1
16	The torque speed characteristic of two-phase induction motor is largely affected by A Voltage B Speed C X/R ratio D Supply frequency	C204.5	K2

17	The direction of rotation of a split phase induction motor can be reversed by reversing the connections to the supply of A Auxiliary winding only B Main winding only C Wither (a) and (b) D Both (a) and (b) simultaneously	C204.5	K1
18	A variable reluctance stepper motor has 8 main poles which have 5 teeth each. If rotor has 60 teeth, calculate the stepping angle. A 0.9 degree B 3 degree C 0.5 degree D 1.8 degree	C204.5	K1
19	A stepper motor has a step angle of 2.50. Determine number of steps required for the shaft to make 25 revolutions. A 3600 B 2500 C 144 D cannot be determined	C204.5	K5
20	For a Multi stack variable reluctance stepper motor has 3 stacks, there are 12 stator and rotor poles in each stack. Calculate step angle. A 10 degree B 20 degree C 30 degree D 40 degree	C204.5	K3
21	Servomotors are usually rated in _____. A KW B toque/hour C KVA D kg/cm	C204.5	K1
22	Which of the following is most accurate motor? A Squirrel cage induction motor B Universal motor C Servomotor D Repulsion motor	C204.4	K1
23	The DC servomotors can be controlled by _____. A a d.c. motor B pulse width modulation C pulse position modulation D system of pulses to each phase	C204.5	K3
24	Which of the following is used for synchronizing the speed of reluctance type motor? A RPM B CRM C MMF D EMF	C204.5	K1
25	The power type factor of a reluctance motor ___ PF? A Leads B Lags C Zero D Equal	C204.5	K
26	Which of the following is the efficiency percentage of reluctance type motor? A55 – 75% B 50% C 90% D 99%	C204.5	K1
27	Inference the following type of magnetic material is used for rotor in reluctance motor?	C204.5	K4

	A Paramagnetic B Ferro magnetic C Diamagnetic D All the above		
28	Perceive following type of component in reluctance motor has own poles? A Rotor B Stator C Spring D Both a and b	C204.5	K5
29	The purpose of stator winding in the compensated repulsion motor is to A. Provide mechanical balance B. Improve power factor and provide better speed regulation C. Prevent hunting in the motor D. Eliminate armature reaction	C204.5	K4
30	In repulsion motor, zero torque is developed when A. Brush axis is 450 electrical to field axis B. Brush axis coincides with the field axis C. Brush axis is 900 electrical to field axis D. Both (b) and (c)	C204.5	K1
	PART B (Answer all the Questions 15 x 02 = 30 Marks)		
31	The capacitor in a capacitor start induction run ac motor is connected in series with A Starting winding B Running winding C Squirrel cage winding D Compensating winding	C204.5	K3
32	A single-phase induction motor is provided with a 3- phase slip ring rotor connected to starting resistances. The motor would A Not start B Result in more starting torque C Produce no difference in the starting torque D Run at half the synchronous speed	C204.4	K1
33	Capacitor in a single-phase induction motor is used for A Improving the power factor B Improving the starting torque C Starting the motor D Reducing the harmonics	C204.4	K3
34	A capacitor selected for capacitor start induction motor should be rated for A Peak voltage B Rms voltage C Average voltage D None of these	C204.5	K2
35	The capacitor employed in a capacitor start induction motor has no A Voltage rating B Polarity marking C Dielectric rating D Definite capacitance value	C204.5	K1
36	A capacitor start single phase induction motor is used for A Easy to start loads B Medium start loads C Hard to start loads D Any type of start loads	C204.5	K4
37	A capacitor start induction motor is switched on to supply with its capacitor replaced by an inductor of equivalent reactance. The motor will	C204.5	K5

	A Not start at all B Start and run slowly C Start and run at rated speed D Start with humming noise			
38	If the capacitor of a capacitor start induction motor is short circuited the motor will A Start B Not Start C Burn D Start with jerks	C204.5	K4
39	If the capacitor of a capacitor start induction motor fails to open when it picks up the speed A The motor will stop B The auxiliary winding will get damaged C The capacitor will get damaged D The main winding will get damaged	C204.5	K4
40	Capacitor start capacitor run induction motor is basically a _____motor. A Two phases B Ac series C Commutator D Synchronous	C204.5	K3
41	Which of the following applications make use of a universal motor? A Portable tool B Lathe machines C Oil expeller D Floor polishing machine	C204.5	K1
42	A variable reluctance stepper motor is constructed of .... material with salient poles answer choices A Paramagnetic B Ferromagnetic C Diamagnetic D Non-magnetic	C204.5	K2
43	A universal motor is one which A is available universally B Can be marketed internationally C Can be operated either on dc or ac supply D Runs at dangerously high speed on no-load	C204.5	K1
44	Infer the following motor rotates in discrete angular steps? A Servo motors B DC motor C Stepper motor D Linear Induction Motor (LIM)	C204.4	K2
45	Stepper motor runs in response to A Programmed sequence of input electrical pulses. B Pulse Width Modulation (PWM). C feedback signal. D Position Modulation (PPM).	C204.5	K4

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B· PRIYA
(Name /Sign / Date)

Register Number: ☐☐☐☐☐☐☐☐☐☐☐☐☐

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	Cycle Test - I			Date/Session	06/05/2021/AN	Marks	60
Course code	HS8251		Course Title	Technical English			
Regulation	2017		Duration	1hour 30 minutes	Academic Year		2020-2021
Year	I		Semester	II	Department		CSE

COURSE OUTCOMES

CO1:	Read technical texts and write area- specific texts effortlessly.
CO2:	Listen and comprehend lectures and talks in their area of specialization successfully
CO3:	Speak appropriately and effectively in varied formal and informal contexts.
CO4:	Write different types of reports.
CO5:	Write winning job applications
CO6:	Write different kinds of essays.

Q.No.	Question	CO	BTS
	PART A		
	(Answer all the Questions 30X1=30 Marks)		
1	**Write the correct form of the verb that agrees with the subject: (Questions from 1 to 4)** She and her friends _____ (be) at the fair. a. is b. are c. were d. am	CO1	K3
2	The woman with her children _____ (walk) down the street. a. walks b. walking c. walk d. walked	CO1	K3
3	The people who listen to that music _____ (be) few. a. are b. is c. was d. had	CO1	K3
4	The president, accompanied by his wife, _____ (be) travelling to England. a. were b. are c. is d. being	CO1	K3
5	**Which of the words given below can be placed after the word given to form a compound word :Q5-Q8** Home_____ **a.** wash b. made c. food d. keeper	CO1	K3
6	Foot_____ a. wear b. were c. where d. court	CO1	K3
7	Pass_____ a. world b. word c. wide d. wipe	CO1	K3
8	World_____ a. wide b. around c. book d. radio	CO1	K3
9	**Identify the voice for the following sentences Q9-Q12** The Sun rises in the East. a. passive voice b. active voice c. impersonal passive voice d. no voice	CO1	K3
10	The bag was found by me.	CO1	K3

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	a. active voice b. passive voice c. impersonal passive voice d. no voice			
11	Shreya Goshal sings a beautiful song.	CO1	K3	
	a. active voice b. passive voice c. impersonal passive voice d. no voice			
12	English is taught.	CO1	K3	
	a. active voice b. passive voice c. impersonal passive voice d. no voice			
13	**Choose the correct form of the verb that agrees with the subject: (Questions from 13 to 16)**	CO1	K3	
	I wish I _____(be) the captain of the team.			
	a. be b. is c. was d. were			
14	We live where the climate_____ (be) good.	CO1	K3	
	a. are b. is c. were d.was			
15	Sam along with his family _____ (live) in Japan.	CO1	K3	
	a. lives b. live c. is living d. has lived			
16	Sam and his family _____ (live) in Toronto.	CO1	K3	
	a. lives b. live c. is living d. has lived			
17	Misspelled words Q17-Q20	CO1	K3	
	Are you _____ to the party tonight?			
	a. comming b. comeing c. cominng d. coming			
18	The flower is _____ beautiful.	CO1	K3	
	a. realy b. raely c.really d. realie			
19	Do you know _____ answer is correct?	CO1	K3	
	a. which b. witch c. vich d. withch			
20	I lived in Paris _____ 2020.	CO1	K3	
	a. untill b. andtil c. until d. ontill			
21	**Rewrite the following as numerical expression: Q 21- Q25**	CO1	K3	
	A base of 13 acres			
	a. a base 13 acre b. a 13 acres base c. a 13 acre base d. a 13 base acres			
22	A project grant of Rs.50 lakhs.	CO1	K3	
	a. a 50 lakh project grant b. a 50 lakhs projects c. a 50 lakhs grant project d. a 50 lakhs grant			
23	An auditorium of 1000 capacity	CO1	K3	
	a. an 1000 capacity auditorium b. a 1000 capacity auditorium c. a 1000 auditorium capacity d. a 1000 capacities auditorium			
24	A project proposal for 10 crores.	CO1	K3	
	a. a 10 crore project proposal b. a 10 crore projects c. a 10 crores projects proposal d. a 10 crores projects proposal			
25	A tour went for 2 days.	CO1	K3	
	a. a 2days tour b. a 2day tour c. a 2 days tour went d. a tour for 2 days			
26	**Form compound nouns from the questions 26-30**	CO1	K3	
	Hike in the price			
	a. hike price b. hike pricing c. price hike d. price hiking			
27	Rates of attrition	CO1	K3	
	a. attrition rates b. attrition rated c. rate attrition d. rating attrition			
28	Addition of value	CO1	K3	
	a. value add b. valuation add c. add value d. value addition			
29	Developing the skills		K3	

	a. develop skills b. skill developing c. develop skilling d. skills developing		
30	**Choose the correct word**. The meeting is _____ in ten minutes. a. beginning b. begining c. beginnig * d. beinging	CO1	K3

<div align="center">

PART B

(Answer all the Questions 15X2=30 Marks)

</div>

31	**Match the words in Column A with their meanings in Column B.**		

	A **B**
	a. Appropriate i) allowing light to pass
	
	b. Translucent ii) a place where water is collected and stored
	
	c. Feedback iii) repercussion
	
	d. Catchment iv) suitable
	
	           v) response
	
	   a. iv v i iii ii, b. i iii v iv c. iv i v ii d. ii v iii iv
		C01	K3

32	**Choose the correct form of the verb that agrees with the subject:** The furniture of the house _____(be) quite impressive. a. are b. is c. were d. was	C01	K3
33	**Change active voice into passive voice** The dog chased the cat. a. the cat chased the dog. b. the cat did chase the dog. c. the cat was chased by the dog. d. no passive	C01	K3
34	**Choose the correct form of the verb that agrees with the subject:** Few students _____(be) coming to the party. a. is b. are c. was d. were	C01	K3

35	**Give sentence definition for rheostat.**
	    a. an electrical instrument used to control a current
	    b. records the electrical signal from the heart to check for different heart conditions.
	    c. a handle used for controlling movement on a computer, aircraft,
	    d. a piece of electrical equipment that is used for making sounds louder
		C01	K3

36	**Define joy stick**
	    a. an electrical instrument used to control a current
	    b. records the electrical signal from the heart to check for different heart conditions.
	    c. a piece of electrical equipment that is used for making sounds louder
	    d. a handle used for controlling movement on a computer, aircraft,
		C01	K3

37	**Define microphone**
	    a.records the electrical signal from the heart to check for different heart conditions.
	    b. an electrical instrument used to control a current
	    c. a handle used for controlling movement on a computer, aircraft.
	    d. a piece of electrical equipment that is used for making sounds louder
		C01	K3

38	**Define Electrocardiogram** a. a handle used for controlling movement on a computer, aircraft	C01	K3

			CO	K
	b. an electrical instrument used to control a current c. records the electrical signal from the heart to check for different heart conditions. d. a piece of electrical equipment that is used for making sounds louder			

39	**Write purpose statement for litmus paper**
	   a. speeds up a chemical reaction, or lowers the temperature or pressure needed to start one, without itself being consumed during the reaction.
	   b. to test whether a solution is acidic or basic,
	   c. indicates direction
	   d. manipulates information, or data
		CO1	K3	

40	**Write purpose statement for compass**
	   a. speeds up a chemical reaction, or lowers the temperature or pressure needed to start one, without itself being consumed during the reaction.
	   b. to test whether a solution is acidic or basic,
	   c. indicates direction
	   d. manipulates information, or data
		CO1	K3	

41	**Write purpose statement for Catalyst**
	   a. speeds up a chemical reaction, or lowers the temperature or pressure needed to start one, without itself being consumed during the reaction.
	   b. to test whether a solution is acidic or basic,
	   c. indicates direction
	   d. manipulates information, or data
		CO1	K3	

42	**Change into active voice,** Sweets are liked by children. a. children like sweets b. children liked sweets c. children likes sweets d. children are like sweets	CO1	K3	
43	**Change into numerical adjectives.** A walk for 5 miles. a. a walk 5 miles b. a 5 mile walk c. a 5 miles of walk d. a 5 miles walk	CO1	K3	
44	**Choose the impersonal passive form.** a. The cat ate the fish. b. the fish was eaten by the cat. c. the cat eats the fish d. the fish was eaten.	CO1	K3	
45	**Change into active voice** The ball was caught by Raj. a. Raj caught the ball. b. Raj catch the ball c. Raj catches the ball. d. Raj is catching the ball.	CO1	K3	

Course Faculty

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	Cycle Test - II		Date/Session	18.05.2022/FN	**Marks**		60
Course code	CE8021	**Course Title**	Structural Dynamics & Earthquake Engineering				
Regulation	2017	**Duration**	120 minutes	**Academic Year**		2021-2022(Even Sem)	
Year	IV	**Semester**	VIII	**Department**		Civil	

COURSE OUTCOMES: Students will be able to

C409.1	Explain about the various simulation and mathematical model development.
C409.2	Explain the process of identify, formulate and solve complicated problem.
C409.3	Explain the role of natural calamity in the damage of structures.
C409.4	Develop the skill to analyse data and to apply the same in the practical problems.
C409.5	Apply the developed methodologies for the safe and stable design of structures.
C409.6	Design earthquake resistant structures using IS codes.

Q.No.	Question	CO	BTL
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	What are the difference between hypocenter and epicenter?	C409.3	K2
2	Write any four major earthquake occurred in India with magnitude.	C409.3	K1
3	What is meant by seismogram?	C409.3	K2
4	What is meant by fundamental frequency and fundamental mode?	C409.2	K2
5	Write any two assumptions that are made in the idealization of a shear building?	C409.3	K1
6	What is meant by modal superposition method?	C409.2	K2
7	What is meant by natural period and frequency?	C409.2	K2
8	Define mode shape?	C409.2	K1
9	What is meant by two degree of freedom system?	C409.2	K2
10	Define plate tectonic theory.	C409.3	K1
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
11a	Derive the equation of motion of a two degree of freedom system for free vibration	C409.2	K3
	OR		
11b	A cantilever bar is to be modelled by a massless uniform bar to which are attached with two lumped masses representing the mass of original system as k= 2AE/L & m=μAE. Determine the natural frequencies of the system and mode shape of the system.	C409.2	K3
12a	Evaluate the natural frequency and mode shape for the given shear building	C409.2	K3
	OR		
12b	Evaluate the two different methods of evaluating damping in a system?	C409.2	K3
	PART C **(Answer all the Questions 1 x 14 = 14 Marks)**		

13a	Discuss about the features of seismograph with neat sketch?	C409.3	K2
	OR		
13b	Explain about the four recent earthquake and explain how the properties are destroyed?	C409.3	K2

Course Faculty 24/4/22

(Name /Sign / Date)

[R. PADMA RANI]

HoD/Civil 12/5/22

(Name /Sign / Date)

[R. MANJU]

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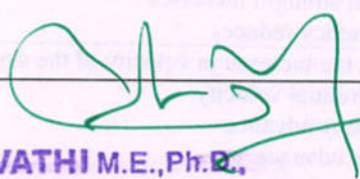
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Cycle Test - I			Date/Session	02.03.2021	Marks		60
Course code	EC8094	Course Title	SATELLITE COMMUNICATION				
Regulation	2017	Duration	90 minutes	Academic Year		2020-2021	
Year	IV	Semester	VIII	Department		ECE	

COURSE OUTCOMES

C410.1	Analyze the different types of satellites
C410.2	Find the orbital determination and launching methods.
C410.3	Analyze the earth segment and space segment
C410.4	Analyze the satellite Link design
C410.5	Learn the Comparison of Multiple access methods
C410.6	Design various satellite applications

Q.No.	Question	CO
	PART A	
	(Answer all the Questions 30 x 1 = 30 Marks)	
1	What happens if a satellite is launched vertically and released at its design altitude? a) Continue to orbit the earth b) Fall back c) Overshoots the altitude and moves at a constant speed d) Stays where it was released	C410.1
2	The satellite is accelerating as it orbits the earth. a) True b) False	C410.1
3	Why does the orbit take the shape of an ellipse or circle? a) Position can be easily determined b) Consume less fuel c) Most efficient geometry d) Better coverage on earth	C410.1
4	The direction of orbit in the same direction of earth rotation is called _____ a) Retrograde b) Posigrade c) Perigee d) Apogee	C410.1
5	When is the speed of the satellite maximum in an elliptical orbit? a) Retrograde b) Posigrade c) Perigee d) Apogee	C410.1
6	Satellites closer to the earth travel at lower speeds than satellites that are far away from earth. a) True b) False	C410.1
7	The time period taken by the satellite to complete one orbit is called _____ a) Lapsed time b) Time period c) Sidereal period d) Unit frequency	C410.1
8	The period of time that elapses between the successive passes of the satellite over a given meridian of earth longitude is called as _____ a) synodic period b) Lapsed time c) Time period d) Sidereal period	C410.1
9	What is the angle of inclination for a satellite following an equatorial orbit? a) 0° b) 180° c) 45°	C410.1

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	d) 90°	
10	The angle between the line from the earth station's antenna to the satellite and the line between the earth station's antenna and the earth's horizon is called as _____ a) Angle of inclination b) Angle of elevation c) Apogee angle d) LOS angle	C410.1
11	To use a satellite for communication relay or repeater purposes what type of orbit will be the best? a) Circular orbit b) Elliptical orbit c) Geosynchronous orbit d) Triangular orbit	C410.1
12	What percentage of the earth can communication satellites see? a) 20 b) 50 c) 70 d) 40	C410.1
13	What is the point on the surface of the earth that is directly below the satellite called? a) Satellite point b) Subsatellite point c) Supersatellite point d) Overhead point	C410.1
14	How does troposphere affect the satellite signals? a) Reduces velocity b) Reflects the signals c) Refracts the signal d) Bit inversion occurs	C410.1
15	Which of the following makes the existence of ionosphere possible? a) Rotation of the Earth b) Ultraviolet radiation from sun c) Solar flares d) Radiation from distant stars	C410.1
16	Satellite signals are refracted by the ionosphere. a) True b) False	C410.1
17	What happens to the satellite signals as the density of the ionosphere is high? a) Velocity increases b) Velocity decreases c) Signal strength increases d) Frequency reduces	C410.1
18	What is the increase in velocity of the signal by the ionosphere termed as? a) Differential velocity b) Velocity advance c) Phase advance d) Signal advance	C410.1
19	Which of the following is not a satellite subsystem? a) Ground station b) Power system c) Telemetry tracking d) Communication subsystem	C410.1
20	Which of the following is not a part of the propulsion subsystem of a satellite? a) Gyroscope b) Jet thruster c) AKM d) Fuel control system	C410.2
21	Which of the following are common baseband signals transmitted from the earth ground station? a) Navigational data, computer data, video b) Computer data, navigational data, voice c) Voice, video, computer data d) Computer data	C410.2
22.	Which of the following components receives, translates the signal frequency and re-transmits the signal in a satellite? a) Repeater b) Relay c) Transponder	C410.2
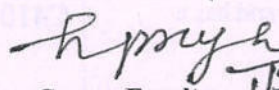
	d) Transducer	
23.	Why is there a huge spectrum space between the transmitted and received signal in satellite communication? a) Reduce interference b) Maximum efficiency c) Less attenuation d) To reduce space occupied by filters	C410.2
24	Which of the following transponders convert the uplink signal to downlink signal using two mixers a) Single conversion transponders b) Dual conversion transponders c) Regenerative transponders d) Dual mixer transponder	C410.2
25	What is the number of transponders if the satellite uses 12 channels of frequency and frequency reuse is implemented? a) 12 b) 6 c) 24 d) 3	C410.2
26	Why is it not possible to provide transmit function by wideband amplifier and mixer circuits? a) Heavy attenuation b) High power output over wideband is not possible c) Economically not profitable d) Weight of the system increases five fold	C410.2
27	Which of the following is not true? a) Battery is only used as a back up b) When in orbit, solar power is always available c) Battery is used for initial satellite orientation and stabilization d) The batteries are charged using solar power	C410.2
28	Telemetry, command, and control (TC&C) subsystem allow a ground station to monitor and control conditions in the satellite. a) True b) False	C410.2
29	The satellite that is used as a relay to extend communication distance is called as _____ a) Relay satellites b) Communication satellites c) Repeater satellites d) Geosynchronous satellites	C410.2
30	The transmitter-receiver combination in the satellite is known as a _____ a) Relay b) Repeater c) Transponder d) Duplexer	C410.2
PART B (Answer all the Questions 2 x 15 = 30 Marks)	
31	What is the reason for carrying multiple transponders in a satellite? a) More number of operating channel b) Better reception c) More gain d) Redundancy	C410.2
32	Why are VHF, UHF, and microwave signals used in satellite communication? a) More bandwidth b) More spectrum space c) Are not diffracted by the ionosphere d) Economically viable	C410.2
33	What is the reason for shifting from c band to ku band in satellite communication? a) Lesser attenuation b) Less power requirements c) More bandwidth d) Overcrowding	C410.2
34	What is the maximum theoretical data rate if a transponder is used for binary transmission and has a bandwidth of 36MHz? a) 32Mpbs b) 72Mpbs c) 36Mpbs d) 12Mpbs	C410.2
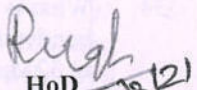
35	Why are techniques like frequency reuse and spatial isolation carried out? a) Reduce traffic load b) More gain c) High speed d) Error detection	C410.2
36	. Which technique uses two different antennas to reduce traffic on the same frequency? a) Spatial isolation b) Frequency reuse c) Multiplexing d) Modulation	C410.2
37	Which technique uses spot beam antennas to divide the area covered by the satellite into smaller segments? a) Spatial isolation b) Frequency reuse c) Multiplexing d) Modulation	C410.2
38	For an elliptical orbit? a) $0 < e < 1$. b) $e < 0$ c) $e > 1$ d) None of the above	C410.1
39	The orbital period in seconds? a) $P = 2\pi / n$. b) $P = 2\pi / n^2$ c) $P = \pi / n$ d) None of the above	C410.1
40	Calculate the radius of a circular orbit for which the period is 1 day? a) 42.241Km b) 42.241m c) 4.241Km d) 2.241Km	C410.1
41	Ascending node? a) The point where the orbit crosses the equatorial plane going from south to north b) The point longest from earth c) The point closest app roach to earth d) None of the above	C410.1
42	True anomaly? a) The true anomaly is the angle from perigee to the satellite position, measured at the earth's center. b) The point longest from earth c) The point closest approach to earth d) None of the above	C410.1
43	Define Polar-orbiting Satellites. (a) Polar orbiting Satellites orbit the earth in such a way as to cover the north & south Polar Regions. b) Orbiting Satellites orbit the earth in such a way as to cover the east & west Polar Regions c) Either (a) & (b) d) None of the above	C410.1
44	Define Universal time day. (a) UT day =1/24(hours+minutes/60+seconds/3600) (b) UT day =1/24(hours+minutes+seconds/3600) (c) UT day =1/24(hours+minutes/6+seconds/360) (d) None of above	C410.1
45	What is meant by azimuth angle? (a) It is defined as the angle produced by intersection of local horizontal plane & the plane passing through the earth station ,the satellite & center of earth. (b) It is defined as the angle produced by intersection of local vertical plane & the plane passing through the earth station ,the satellite & center of earth. (c) It is defined as the angle produced by intersection of local horizontal plane & center of earth. (d) None of above	C410.1

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Cycle test - I			Date/Session	10.01.22/AN	Marks		100
Course code	MA3151	Course Title	MATRICES AND CALCULUS				
Regulation	2021	Duration	3 hours	Academic Year		2021-2022	
Year	I	Semester/Sec	I/B	Department		CIVIL,ECE,EEE	

COURSE OUTCOMES	
C102.1	Use the matrix algebra methods for solving practical problems.
C102.2	Apply differential calculus tools in solving various application problems.
C102.3	Describe the partial differential equations with initial and Lagrange's method by using certain techniques with engineering applications.
C102.4	Carry out the differentiation to solve maxima and minima problems.
C102.5	Explain different methods of integration in solving practical problems.
C102.6	Determine multiple integral ideas in solving areas, volumes and other practical problems.

Q.No.	Question	CO	BTS
	PART A		
	(Answer all the Questions 10 x 2 = 20 Marks)		
1	Find the Eigenvalues of the matrix $\begin{bmatrix} 1 & -2 \\ -5 & 4 \end{bmatrix}$.	C102.1	K3
2	Find the sum and product of all Eigenvalues of the matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & 2 & 4 \\ 1 & 2 & 7 \end{bmatrix}$ Is the matrix singular?	C102.1	K3
3	Verify Cayley- Hamilton theorem for $A = \begin{pmatrix} 3 & -1 \\ -1 & 5 \end{pmatrix}$.	C102.1	K3
4	If 3 and 2 are the two eigenvalues of $A = \begin{bmatrix} 1 & 0 & -1 \\ 1 & 2 & 1 \\ 2 & 2 & 3 \end{bmatrix}$ then find A^{-1}	C102.1	K3
5	State Cayley -Hamilton Theorem.	C102.1	K1
6	Find the eigenvalues of $3A + 2I$, where $A = \begin{pmatrix} 5 & 4 \\ 0 & 2 \end{pmatrix}$	C102.1	K3
7	Define differentiation.	C102.2	K1
8	Differentiate the following function $y = x^7 + e^x$.	C102.2	K2
9	Find y', y'' and y''' if $y = x^3 - 6x^2 - 5x + 3$.	C102.2	K3
10	Find $\frac{dy}{dx}$ if $x = at^2$, $y = 2at$.	C102.2	K3
	PART B		
	(Answer all the Questions 2 x 10 = 20 Marks)		
11a	(i) Find all the Eigenvalues and Eigenvectors of the matrix $\begin{pmatrix} 1 & 0 & -1 \\ 1 & 2 & 1 \\ 2 & 2 & 3 \end{pmatrix}$. (ii) The Eigenvalues of a real symmetric matrix are real numbers.	C102.1	K3
	OR		
11b	Verify Cayley-Hamilton theorem find A^{-1} when $A = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 4 & 5 \\ 3 & 5 & 6 \end{pmatrix}$.	C102.1	K3
12a	Use Cayley-Hamilton theorem to find the value of the matrix given by (i) $f(A) = A^8 - 5A^7 + 7A^6 - 3A^5 + A^4 - 5A^3 + 8A^2 - 2A + I$. (ii) $g(A) = A^8 - 5A^7 + 7A^6 - 3A^5 + 8A^4 - 5A^3 + 8A^2 - 2A + I$ if the matrix $A = \begin{pmatrix} 2 & 1 & 1 \\ 0 & 1 & 0 \\ 1 & 1 & 2 \end{pmatrix}$.	C102.1	K3

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12b	Let $A = \begin{pmatrix} 6 & -2 & 2 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{pmatrix}$ find the matrix P such that $P^{-1}AP$ is a diagonal matrix	C102.1	K3
13a	Reduce the quadratic form $Q = 6x^2 + 3y^2 + 3z^2 - 4xy - 2yz + 4zx$ into canonical form by an orthogonal transformation.	C102.1	K3
	OR		
13b	i)Sketch the graph of the function $$f(x) = \begin{cases} 1 + x & ; & x < -1 \\ x^2 & ; & -1 \leq x \leq 1 \\ 2 - x & ; & x \geq 1 \end{cases}$$ and use it to determine the value of $'a'$ for which $\lim_{x \to a} f(x)$ exist. ii) Evaluate $\lim_{x \to \frac{\pi}{2}} \frac{1 + \cos 2x}{(\pi - 2x)^2}$.	C102.2	K3
14a	i) If $f(x) = \begin{cases} \frac{x^3 - 8}{x - 2} & , x < 2 \\ ax^2 - bx + 3 & , 2x \leq x < 3 \\ 2x - a + b & , x \geq 3 \end{cases}$ is continuous for all real x,find the value a and b ii) Find the domain where the function f is continuous. Also find the numbers at which the function f is discontinuous, where $$f(x) = \begin{cases} 1 + x^2 & ; & x \leq 0 \\ 2 - x & ; & 0 \leq x \leq 2 \\ (x - 2)^2 & ; & x \geq 2 \end{cases}$$	C102.2	K3
	OR		
14b	i) Find the value of the constant c is the function f continuous at $(-\infty, \infty)$ $$f(x) = \begin{cases} cx^2 + 2x & ; & x < 2 \\ 2 - x & ; & 0 \leq x \leq 2 \\ (x - 2)^2 & ; & x \geq 2 \end{cases}$$ ii)Find $\frac{dy}{dx}$ if $y = x^2 e^{2x}(x^2 + 1)^4$.	C102.2	K3
15a	(i)Find the local maxima of the function $f(x) = 2x^3 + 3x^2 - 36x$, using first derivative test ii)Find the local maximum and minimum of $f(x) = \sqrt{x} - \sqrt[4]{x}$.	C102.2	K3
	OR		
15b	i) Find the interval of concavity and the inflexion points $f(x) = 2x^3 + 3x^2 - 36x$.	C102.2	K3

Course Faculty [N. Vithya]

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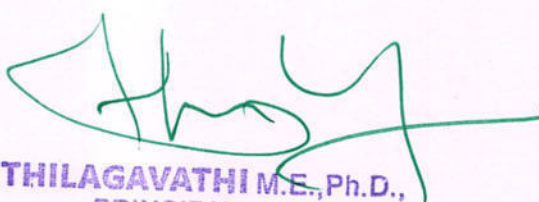
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Cycle Test - I			Date/Session	25.03.2023/FN	Marks		100
Course code	CE3404	Course Title	Soil Mechanics				
Regulation	2021	Duration	180 minutes	Academic Year		2022-2023 (Even Sem)	
Year	II	Semester	IV	Department		Civil	

COURSE OUTCOMES: At the end of the course student will be able to	
C213.1	Explain the formation of soil and its unified classification system, formulate and solve engineering Problems.
C213.2	Describe the two dimensional flow through soil medium and its impact of engineering solution.
C213.3	Explain the basic concept of stress distribution in loaded soil medium and soil settlement due to consolidation.
C213.4	Illustrate the shear strength of cohesive and cohesion less soils and also will be aware of contemporary issues on shear strength of soils.
C213.5	Describe the stability analysis of finite slopes, component and process as per needs and specifications.
C213.6	Describe the stability analysis of infinite slopes and its failures protection measures.

Q.No.	Question	CO	BTL
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	What is meant by degree of saturation?	C213.1	K2
2	Define Porosity of a given soil sample.	C213.1	K1
3	Draw a phase diagram for dry soil and saturated soil.	C213.1	K1
4	Distinguish between transported soil and residual soil.	C213.1	K2
5	Write any two engineering classification system of soil.	C213.2	K1
6	Define plasticity index, flow index and liquidity index.	C213.2	K1
7	List any four equipments/methods available for field compaction of soil.	C213.2	K1
8	What is capillary rise?	C213.3	K2
9	What is meant by total stresses and neutral stresses?	C213.3	K2
10	List out the forms of Soil water.	C213.3	K1
	PART B **(Answer all the Questions 5 x 13 = 65 Marks)**		
11a	A soil sample is found to have the following properties.Classify the soil according to IS classification system. Passing 75µ sieve = 10%; passing 4.75 mm sieve = 70%;Uniformity coefficient =8;coefficient of curvature = 2.8;Plasticity index = 4%.	C213.1	K3
	OR		
11b	A cubic meter of soil in its natural state weighs 17.75 kN, after being dried it weighs 15.08kN. The specific gravity of the soil is 2.70. Determine the degree of saturation, void ratio, porosity and water content of the original soil sample.	C213.1	K3
12a	Clayey soil in a borrow pit has unit weight of solids as 20 kN/m³,moisture content is 13% and bulk unit weight equal to 15kN/m³.How many cubic meter of compacted fill could be constructed of 5000 m³ of clay excavated from borrow pit.	C213.2	K3
	OR		
12b	Sandy soil in a borrow pit has unit weight of solids as 25.8 kN/m³ water content equal to 11% and bulk unit weight equal to 16.4 kN/m³.How many cubic meter of compacted fill could be constructed of 3500 m³ of sand excavated from borrow pit, if required value of porosity in the compacted fill is 30%. Also calculate the change in degree of saturation.	C213.2	K3
13a	Explain the factors affecting compaction of soil.	C213.1	K2
	OR		

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13b	Explain the Indian Standard soil classification system of soil.	C213.1	K2
14a	Explain the different modes of occurrences of water in soil.	C213.2	K2
	OR		
14b	Explain the prodecure for determining the relationship between dry density and moisture content by proctor compaction test.	C213.2	K2
15a	Calculate the height to which water will rise in a soil deposit consisting of fine silt of uniform in size. The depth of water below the ground surface is 20m. Assume the surface tension is 75×10^{-8} kN/cm and contact angle is zero. The average size of the pores is 0.004 mm.	C213.3	K3
	OR		
15b	A clay layer 3m thick is having water content 45%, specific gravity is 2.7. This clay layer is lying below another layer which is 5m thick sand layer. The sand layer lying at the top is having e=.6, S_r= 40% and G_s=2.65. The water table is at depth of 3m below. Determine total stress, pore water pressure and effective stress.	C213.3	K3

PART C
(Answer all the Questions 1 x 15 = 15 Marks)

16a	An earthen embankment of 10^6 m³ volume is to be constructed with a soil having a void ratio of 0.80 after compaction. There are three borrow pits marked A, B and C having soils with voids ratios of 0.90, 0.50 and 1.80 respectively. The cost of excavation and transporting the soil is Rs0.25, Rs 0.23 and Rs 0.18 per m³ respectively. Calculate the volume of soil to be excavated from each pit. Which borrow pit is the most economical?	C213.1	K3
	OR		
16b	A laboratory compaction test on soil having specific gravity equal to 2.67 gave a maximum dry unit weight of 17.8 kN/m³ and a water content of 15%. Determine the degree of saturation, air content and percentage air voids at the maximum dry unit weight. What would be theoretical maximum dry unit weight corresponding to zero air voids at the optimum water content?	C213.1	K3

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Course Faculty

(Name /Sign / Date)

(RACI. MAHIZHINI)

17/3/23

HoD/Civil

(Name /Sign / Date)

(R. PADMA RANI)
HOD / CIVIL
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Cycle Test - I			Date/Session	13.10.2022/AN	Marks		100
Course code	EC 3354	Course Title	SIGNALS AND SYTEMS				
Regulation	2021	Duration	3 Hours	Academic Year		2022 - 2023	
Year	II	Semester	III	Department		ECE	
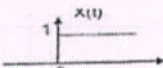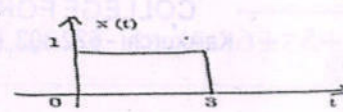
COURSE OUTCOMES

C203.1:	Determine if a given system is linear/causal/stable
C203.2:	Determine the frequency components present in a continuous time signal
C203.3:	Characterize continuous LTI systems in the time domain and frequency domain
C203.4:	Characterize discrete LTI systems in the time domain and frequency domain
C203.5:	Analyze discrete time signals and system in the Fourier and Z transform domain
C203.6:	Compute the output of an LTI system in the time and frequency domains

Q.No.	Question	CO	BTL
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	Determine average power P_∞ for the signal x(t)=2cos (t)	C203.1	K2
2	Find even and odd part of the signal? 	C203.1	K3
3	What are the Dirichlet's conditions of Fourier series?	C203.2	K2
4	State the Parseval's theorem in Fourier Transform	C203.2	K2
5	Determine whether the given discrete time sequence is periodic or not. If sequence is periodic, Find the fundamental period x(n)= cos(n/8) cos(πn/8)?	C203.1	K2
6	Determine the fourier transform of the unit step signal?	C203.2	K2
7	Define random signal? Give an example.	C203.1	K1
8	Find the Laplace transform of x(t)= e^{-at} u(t)	C203.2	K3
9	State the difference between causal and non-causal systems.	C203.1	K1
10	Represent the following function into unit step function. 	C203.1	K2
	PART B **(Answer all the Questions 5 x 13 = 65 Marks)**		
11a	Check whether the following system is linear, causal, time variant, static and stable a) y(n) = x(n)-x(n-1) b) y(t) = x(t)cos (100πt) c) y(t) = x(t/2) (13)	C203.1	K1
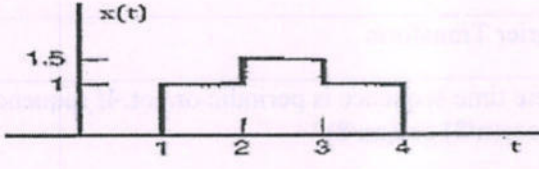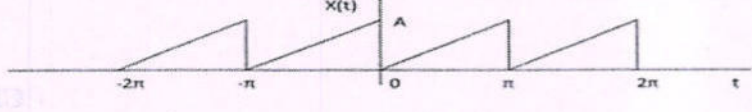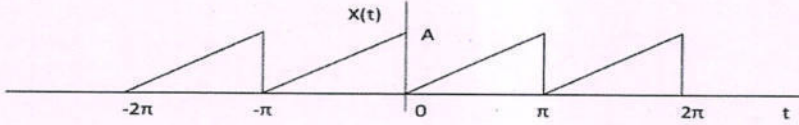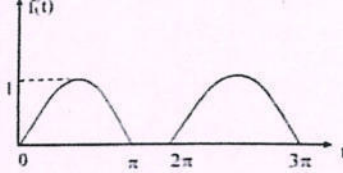
OR

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11b	(i)Determine whether the following signals are energy or power signals $x(t) = e^{-2t}u(t)$		

	(ii)Check whether the periodicity of the signals and also find the fundamental period if they are periodic
	     (a) $x(t) = e^{-j2t}$
	     (b) $x(n) = \sin(\frac{6\pi}{7}n+1)$ (04+09)
		C203.1	K1

12a	Find the inverse Laplace transform of
	
	     (i) X(s) $= \dfrac{2s+3}{s^2+5s+6}$
	
	     (ii) X(s) $= \dfrac{3s+4}{(s+1))(s+2)^2}$ (06+07)
		C203.2	K2

	OR		
12b	Write any seven properties of laplace transform with proof. (13)	C203.2	K2

13a	Draw the waveforms represented by following step functions.
	
	     (i) $f_1(t) = 2\,u(t-1)$
	     (ii) $f_2(t) = -2\,u(t-2)$
	     (iii) $f(t) = f_1(t) + f_2(t)$
	     (iv) $f(t) = f_1(t) - f_2(t)$ (13)
		C203.1	K1

	OR		
13b	i) For the signal x(t) shown in Figure, sketch $x\left(2 - \dfrac{t}{2}\right)$. ii) Sketch the even and odd part of the signal x(t) shown in Figure. Figure (09+04)	C203.1	K1

14a	(i)Find Inverse Laplace transform of X(s) $= \dfrac{1}{(s+5))(s-3)}$
	
	     For (1) -5<Re(s)<3,
	     (2) Re(s) > 3
	
	 (ii) Find the initial value and final value of X(s) $= \dfrac{2s+3}{s^2+5s+6}$ (08+05)
		C203.2	K3

	OR		
14b	(i)Write any five properties of Fourier transform (10) (ii)Find the Laplace transform of $x(t) = e^{-at}\cos(wt)u(t)$ (03)	C203.2	K3
15a	Derive the Fourier series representation of the given transform and plot the magnitude spectrum. (13)	C203.2	K3
	OR		
15b	Solve the trigonometric Fourier series representation of following signal.	C203.2	K3

15a	Obtain the fourier series representation of the given waveform. Plot magnitude spectrum.		C203.2	K3
	(13)			
	OR			
15b	Obtain the trigonometric Fourier series representation of following signal. (13)		C203.2	K3
	PART C **(Answer all the Questions 1 x 15 = 15 Marks)**			
16a	.(a)The input $x(t)$ and $y(t)$ for a system satisfy differential equation $$\frac{d^2}{dt^2}y(t) + 3\frac{d}{dt}y(t) + 2y(t) = x(t)$$ (i) Compute the transfer function and impulse response (ii)Draw direct form ,cascade and parallel form representation (07 +08)		C203.3	K2
	OR			
16b	Find the step response of the system when impulse response is given as $$h(t) = u(t+1) - u(t-1)$$ (ii) Impulse response of an LTI system is given by $$h(t) = \begin{cases} e^{-2t} \\ 0 & ;otherwise \end{cases} ; \quad t \geq 0$$ find impulse response output due to the input $$x(t) = \begin{cases} A ; 0 \leq t \leq 2 \\ 0; otherwise \end{cases}$$ Also sketch the output (15)		C203.3	K2

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Cycle Test - I			Date/Session	27/3/2023	Marks		100
Course code	CS3452	Course Title	Theory of Computation				
Regulation	2021	Duration	3 hours	Academic Year		2022-2023	
Year	II	Semester	IV	Department		CSE	
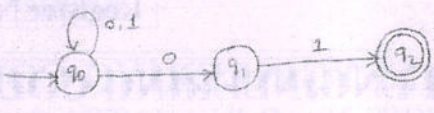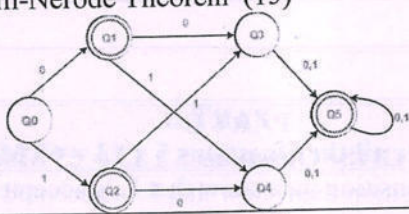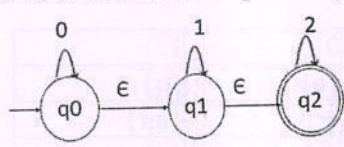
COURSE OUTCOMES

C210.1:	Construct automata theory using Finite Automata
C210.2:	Write regular expressions for any pattern
C210.3:	Design context free grammar
C210.4:	Ability to design Pushdown Automata
C210.5:	Design Turing machine for computational functions
C210.6:	Differentiate between decidable and undecidable problems

Q.No.	Question	CO	BTL
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	List any four ways of theorem proving.	C210.1	K1
2	Define symbols, alphabets and strings.	C210.1	K1
3	What is the need for finite automata?	C210.1	K1
4	Define DFA.	C210.1	K1
5	How will you represent the finite automata?	C210.1	K1
6	Give the DFA accepting the language over the alphabet 0,1 that have the set of all strings ending in 00.	C210.1	K3
7	Define Regular expression. Give an example.	C210.2	K1
8	Write Regular Expression for the language that have the set of strings over{a,b,c} containing at least one a and at least one b.	C210.2	K1
9	Define derivation tree for a CFG.	C210.3	K1
10	Explain about ambiguous grammar.	C210.3	K2
	PART B **(Answer all the Questions 5 x 13 = 65 Marks)**		
11a(i)	If L is accepted by an NFA with ε-transition then show that L is accepted by an NFA without ε-transition.(6)	C210.1	K3
(ii)	Construct a DFA equivalent to the NFA. M=({p,q,r},{0,1}, δ,p,{q,s}) Where δ is defined in the following table. (7) 	Δ	0	1	 	P	{q,s}	{q}	 	Q	{r}	{q,r}	 	R	{s}	{p}	 	S	-	{p}		C210.1	K3
	OR		
11b(i)	Show that the set L={$a^n b^n$ /n>=1} is not a regular. (6)	C210.1	K3
(ii)	Prove for every n>-1 by mathematical induction $\Sigma i^3=(n(n+1)/2)^2$ (7)	C210.1	K3
12a(i)	Construct DFA equivalent to the NFA given below: (9)	C210.1	K6
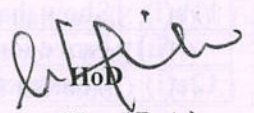
				C210.1	K2
(ii)	Prove $2^n > n^3$ where n>=10. (4)				

<div align="center">OR</div>

12b(i)	Construct the DFA from given NFA.(9)			C210.1	K6

δ	A	B
Q0	{q0,q1}	{q1}
Q1	-	{q0,q1}

		C210.1	K2
(ii)	Explain the procedure to minimize the DFA using table partitioning method with example (4)	C210.1	K2
13a(i)	Design a finite automata for the regular expression $(0+1)^*(00+11)(0+1)^*$ (8)	C210.2	K5
(ii)	Prove that the class of regular sets is closed under complementation.(5)	C210.2	K3

<div align="center">OR</div>

13b(i)	Show that id* id can be generated by two distinct leftmost derivation in the grammar E->E+E / E*E / (E) / id (8)	C210.2	K5
(ii)	Find the language generated by a grammar G=({S},{a,b},{S->aSb, S->ab},S) (5)	C210.2	K3
14a(i)	Construct DFA that accepts all strings with three consecutive 0's.(8)	C210.1	K6
(ii)	Relate pumping lemma for regular set. (5)	C210.2	K4

<div align="center">OR</div>

14b (i)	Construct a LM derivation and RM derivation and parse tree for aaabbabbba with the productions. P : S -> aB / bA, A-> a /S / bAA, B ->b / bS / aBB (8)	C210.1	K6
(ii)	Differentiate DFA from NFA. (5)	C210.2	K4
15a (i)	Prove for every n>0 by mathematical induction $\Sigma i^2 = (n(n+1)(2n+1)/6)$ (8)	C210.1	K3
(ii)	Construct DFA that accepts all strings on {0,1} except those containing the substring 101. (5)	C210.1	K6

<div align="center">OR</div>

15b (i)	Construct closure properties of regular automata languages.(8)	C210.1	K3
(ii)	Construct a NFA to accept string containing the substring 0101. Write the regular expression for the same. (5)	C210.1	K6

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PART C

(Answer all the Questions 1 x 15 = 15 Marks)

</div>

16a	Minimize the DFA using Myhill-Nerode Theorem (15)	C210.1	K3

<div align="center">OR</div>

16b	Convert the given NFA with epsilon to NFA without epsilon. (15)	C210.1	K3

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[S. Yogalakshmi]

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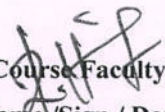PUDUKKOTTAI - 622 303

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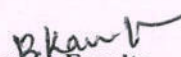| Cycle test - I			Date/Session	28.07.2018/AN	Marks	50
Course code	CE6504	**Course Title**	HIGHWAY ENGINEERING			
Regulation	2013	**Duration**	90 minutes	**Academic Year**	2018-2019(Odd Sem)	
Year	III	**Semester**	V	**Department**	Civil	

COURSE OUTCOMES

C304.1	Explain significance of highway planning, model limitations towards sustainability.
C304.2	Illustrate cross sectional elements, sight distances, horizontal curves, super elevation & transition curves.
C304.3	Demonstrate design principles of flexible & rigid pavements.
C304.4	Explain highway construction materials, properties, testing methods & CBR test for subgrade.
C304.5	Describe pavement distress in flexible and rigid pavaments & pavement management system.
C304.6	Illustrate skid resistance, structural evaluation & evaluation by deflection measurements.

Q.No.	Question	CO	BTL
	PART A		
	(Answer all the Questions 10 x 2 = 20 Marks)		
1	Difference between Telfords and Macadam method of road construction.	C304.1	K2
2	Define camber.	C304.2	K2
3	Define SSD.	C304.2	K2
4	What are the roles of MORTH?	C304.2	K2
5	Define the term alignment and state its types.	C304.1	K2
6	What are the special features of Roman roads?	C304.1	K2
7	Write a short note about National Transport Policy Committee.	C304.1	K1
	PART B		
	(Answer all the Questions 2 x 13 = 26 Marks)		
8.a	Describe briefly about second twenty year road plan.	C304.1	K2
	OR		
8.b	Briefly explain the role of IRC in highway development.	C304.1	K2
9.a	Briefly explain about NHAI and CRRI.	C304.1	K2
	OR		
9.b	Explain the requirements of ideal highway alignment.	C304.1	K2
	PART C		
	(Answer all the Questions 1 x 10 = 10 Marks)		
10.a	Caculate the length of transition curve and shift using the following data: i. Design speed = 60KMPH & Radius of circular curve = 200m ii. Pavement width including extra widening = 7.5m iii. Allowable rate of introduction of super elevation = 1in 150	C304.2	K3

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10.b	The design speed of the vehicle is 70kmph and the co efficient of friction is 0.35. if the total reaction time of the driver is 2.5 seconds. Calculate, i) SSD for two way lane road. ii) SSD for single lane road iii) SSD for two way two lane road with an ascending gradient of 2% iv) SSD for two way two lane road with the breaking efficiency of 75%		C304.2	K3

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CYCLE TEST – I			Date/Session	28.07.2018	Marks		50
Course code	CS8392	Course Title	OBJECT ORIENTED PROGRAMMING				
Regulation	2017	Duration	90 Minutes	Academic Year		2018-2019	
Year	II	Semester	III	Department		CSE	

COURSE OUTCOMES	
C204.1:	Develop Java programs using OOP principles
C204.2:	Develop Java programs with the concepts inheritance and interfaces
C204.3:	Build Java applications using exceptions and I/O streams
C204.4:	Develop Java applications with threads
C204.5:	Develop Java applications with generics classes
C204.6:	Develop interactive Java programs using swings

Q.No.	Question	CO	BTS
	PART A **(Answer all the Questions 7 x 2 = 14 Marks)**		
1	Define Object Oriented Programming paradigms	C204.1	K1
2	What are the concepts of OOPS?	C204.1	K1
3	Define Object and Object variable.	C204.2	K2
4	What is the purpose of Default constructor?	C204.2	K1
5	Define static methods.	C204.2	K1
6	What is meant by abstract classes?	C204.1	K1
7	What is the use of extend keyword?	C204.2	K1
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
8a	Explain in detail about the Object Oriented concepts. (13)	C204.1	K4
	(OR)		
8b	Explain Control statements with suitable example. (13)	C204.1	K4
9a	Explain the concepts of Operators with an example. (13)	C204.2	K1
	(OR)		
9b	Explain how Interface is implemented in java with a suitable example. (13)	C204.2	K4
	PART C **(Answer all the Questions 1 x 10 = 10 Marks)**		
10a	Describe about classes in java and programming structure in java with examples. (10)	C204.2	K2
	(OR)		
10b	Explain constructor methods with suitable example. (10)	C204.2	K2

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Cycle Test - I			Date/Session	01.08.2018/AN	Marks		50
Course code	EE8391	Course Title	ELECTROMAGNETIC THEORY				
Regulation	2017	Duration	90 minutes	Academic Year		2018-2019	
Year	II	Semester	III	Department		EEE	

COURSE OUTCOMES

CO1:	Comprehend the basic mathematical concepts related to electromagnetic vector fields.
CO2:	Discuss the basic concepts about electrostatic fields, electrical potential, energy density and their applications.
CO3:	Explain the magneto static fields, magnetic flux density, vectorpotential and its applications.
CO4:	Describe the different methods of emf generation and Maxwell's equations.
CO5:	Demonstrate the basic concepts of electromagnetic waves and characterizing parameter.
CO6:	Illustrate and compute Electromagnetic fields and apply them for design andanalysis of electrical equipment and systems.

Q.No.	Question	CO	BTS
	PART A		
	(Answer all the Questions 7 x 2 = 14 Marks)		
1	Define Stokes Theorem.	C203.1	K1
2	State Divergence Theorem.	C203.1	K1
3	Identify the unit vector and its magnitude corresponding in the given vector A=5ax+ ay+ 3az	C203.1	K1
4	What is co-ordinate system and its types?	C203.1	K2
5	State coulomb's law.	C203.2	K1
6	State Gauss law.	C203.2	K1
7	Define Electric Field intensity.	C203.2	K1
	PART B		
	(Answer all the Questions 2 x 13 = 26 Marks)		
8a	Summarize about the curl of a vector field in cylindrical and spherical coordinates.	C203.1	K1
	OR		
8b	State and prove divergence theorem for a given differential volume element.	C203.1	K1
9a	Given the two points A(x=2,y=3,z=-1) and B(r=4, θ=25°,Φ=120°).Solve the spherical coordinates of A and Cartesian coordinates of B.	C203.1	K2
	OR		
9b	The three fields are given by A= 4ax+az, B= 4ax-2ay+4az, C= 4ax+6ay+2az. Find the vector and scalar multiple product.	C203.1	K2
	PART C		
	(Answer all the Questions 1 x 10 = 10 Marks)		
10a	Explain the importance of poison's and Laplace's equation in electromagnetic with necessary equations.	C203.2	K2
	OR		
10b	Explain about any two applications of Gauss law and prove it.	C203.2	K2

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(Mr. A.ABDUL BASEETH)

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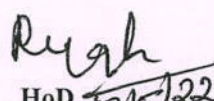### Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

CYCLE TEST- II			Date/Session	08.09.2018/AN	Marks		50
Course code	EC6503	Course Title	TRANSMISSION LINES AND WAVEGUIDES				
Regulation	2013	Duration	90 minutes	Academic Year		2018-2019	
Year	III	Semester	V	Department		ECE	

COURSE OUTCOMES

C303.1	To Discuss the propagation of signals through transmission lines
C303.2	To analyze signal propagation at Radio frequencies.
C303.3	To impart technical knowledge in impedance matching using smith chart
C303.4	To introduce passive filters and basic knowledge of active RF components
C303.5	To explain radio propagation in guided systems
C303.6	To utilize cavity resonators.

Q.No.	Question	CO	BTL
	PART A (Answer all the Questions 7 x 2 = 14 Marks)		
1	What is the input impedance of a eighth wave , quarter wave and half wave line?	C303.3	K2
2	What are the applications of smith chart?	C303.3	K2
3	Write the expression for the length of the stub in single stub matching.	C303.3	K1
4	Give an application of an eighth wave line.	C303.3	K1
5	Define skin depth.	C303.3	K1
6	What are guides waves? Give examples.	C303.5	K2
7	Define phase and group velocity.	C303.5	K1
	PART B (Answer all the Questions 2 x 13 = 26 Marks)		
8a	Find the input impedance of a quarter wave transformer and design to match a load of 200Ω to a source resistance of 500 Ω. Operating frequency is 200MHz.	C303.3	K3
	OR		
8b	A load impedance of 90-j50 Ω is to be matched to a line of 50 Ω using single stub matching. Find the length and position of the stub.	C303.3	K3
9a	Derive the field equations of TE waves travelling in Z direction in a rectangular wave guide.	C303.5	K3
	OR		
9b	An air filled resonant cavity with dimensions a=5cm,b=4cm and c=10cm is made of copper σc =5.8×10^7 mhos/m. Find the resonant frequency of five lowest order mode and quality factor TE101 mode.	C303.5	K3
	PART C (Answer all the Questions 1 x 10 = 10 Marks)		
10	A 50 Ω lossless transmission line is terminated in a load impedance of ZL=25+j50 Ω. Use the smith chart to find a) Voltage reflection co-efficient b)VSWR c) input impedance of the line given that the line is 3.3 ƛ long and d) input admittance of the line.	C303.3	K3

Course Faculty
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CYCLE TEST – I			Date/Session	28.07.2018	Marks		50
Course code	CS8392		Course Title	OBJECT ORIENTED PROGRAMMING			
Regulation	2017		Duration	90 Minutes	Academic Year		2018-2019
Year	II		Semester	III	Department		IT

COURSE OUTCOMES	
C204.1:	Develop Java programs using OOP principles
C204.2:	Develop Java programs with the concepts inheritance and interfaces
C204.3:	Build Java applications using exceptions and I/O streams
C204.4:	Develop Java applications with threads
C204.5:	Develop Java applications with generics classes
C204.6:	Develop interactive Java programs using swings

Q.No.	Question		CO	BTS
	PART A **(Answer all the Questions 7 x 2 = 14 Marks)**			
1	Define Object Oriented Programming paradigms		C204.1	K1
2	What are the concepts of OOPS?		C204.1	K1
3	Define Object and Object variable.		C204.2	K2
4	What is the purpose of Default constructor?		C204.2	K1
5	Define static methods.		C204.2	K1
6	What is meant by abstract classes?		C204.1	K1
7	What is the use of extend keyword?		C204.2	K1
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**			
8a	Explain in detail about the Object Oriented concepts.	(13)	C204.1	K4
	(OR)			
8b	Explain Control statements with suitable example.	(13)	C204.1	K4
9a	Explain the concepts of Operators with an example. (13)		C204.2	K1
	(OR)			
9b	Explain how Interface is implemented in java with a suitable example.	(13)	C204.2	K4
	PART C **(Answer all the Questions 1 x 10 = 10 Marks)**			
10a	Describe about classes in java and programming structure in java with examples. (10)		C204.2	K2
	(OR)			
10b	Explain constructor methods with suitable example.	(10)	C204.2	K2

Course Faculty

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[G.BHUVANESHWARI]

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CYCLE TEST – I			Date/Session	25.07.2019	Marks		60
Course code	CS8592	Course Title	OBJECT ORIENTED ANALYSIS AND DESIGN				
Regulation	2017	Duration	2 Hrs	Academic Year		2019-2020	
Year	III	Semester	V	Department		CSE	

COURSE OUTCOMES

C305.1:	Express software design with UML diagrams
C305.2:	Design software applications using OO concepts.
C305.3:	Identify various scenarios based on software requirements
C305.4:	Transform UML based software design into pattern based design using design patterns
C305.5:	Understand the various testing methodologies for OO software
C305.6:	Test the software against its requirements specification

Q.No.	Question		CO	BTS
	PART A (Answer all the Questions 10 x 2 = 20 Marks)			
1	What is an object? Give an example.		C305.1	K1
2	What is Analysis and Design?		C305.1	K1
3	Define OOAD.		C305.2	K2
4	Define Unified Process (UP).		C305.2	K2
5	State Class Diagram.		C305.2	K1
6	Compare Aggregation and Composition.		C305.1	K4
7	What is meant by Deployment diagram?		C305.2	K1
8	Define Domain Model.		C305.2	K2
9	List of three perspectives to apply UML.		C305.1	K1
10	Mention the key requirement artifacts.		C305.1	K1
	PART B (Answer all the Questions 2 x 13 = 26 Marks)			
8a	What is Elaboration? Explain why elaboration is complex?	(13)	C305.1	K2
	(OR)			
8b	Explain the benefits and concepts of use case and use case model and analyze the relating use cases have in ATM system	(13)	C305.1	K2
9a	(i) What is UP? (ii) Explain briefly about the Four Major phases of Unified Process?	(6) (7)	C305.2	K1
	(OR)			
9b	Explain with an example relationship between sequence diagram and use cases.	(13)	C305.2	K1
	PART C (Answer all the Questions 1 x 14= 14Marks)			
10a	List the Various UML diagrams and explain the purpose of each diagram.	(14)	C305.2	K2
	(OR)			
10b	Describe the Design pattern concepts with examples.	(14)	C305.2	K2

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	Cycle Test - III			Date/Session	12.10.2019/FN	Marks		60
Course code	EE8351		Course Title	DIGITAL LOGIC CIRCUITS				
Regulation	2017		Duration	90 minutes	Academic Year		2019-2020	
Year	II		Semester	III	Department		EEE	

COURSE OUTCOMES	
CO1:	Comprehend various number systems and simplify the logical expressions using Boolean functions.
CO2:	Explain about the combinational circuits.
CO3:	Design various synchronous sequential circuits.
CO4:	Develop the asynchronous sequential circuits.
CO5:	Describe about PLDs and FPGA.
CO6:	Demonstrate the digital simulation for development of application oriented logic circuits.

Q.No.	Question	CO	BTS
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	What is fundamental mode sequential circuit?	C202.4	K1
2	What is pulse mode circuit?	C202.4	K1
3	Draw the block diagram of asynchronous sequential circuit.	C202.4	K3
4	What is state equivalence theorem?	C202.4	K1
5	List the different techniques used for state assignment.	C202.4	K1
6	What is the structural gate-level modeling?	C202.5	K1
7	What is Switch-level modeling?	C202.5	K1
8	What are identifiers?	C202.5	K1
9	Give the different arithmetic operators?	C202.5	K1
10	What are the types of procedural assignments?	C202.5	K1
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
11a	Describe the steps involved in design of asynchronous sequential circuit in detail with an example.	C202.4	K2
	OR		
11b	i) Write program in HDL to design 2 bit up/down counter. ii) Write the HDL program for 2:1 multiplexer in Dataflow and Behavioural description.	C202.4	K2
12a	Write the VHDL program for 4 bit counter.	C202.5	K2
	OR		
12b	Explain the various modeling methods used in VHDL with an example.	C202.5	K2
	PART C **(Answer all the Questions 1 x 14 = 14 Marks)**		
13a	i)Draw the VLSI design flowchart used for IC design and fabrication. ii) Write down a VHDL code for 8:1 multiplexer.	C202.5	K2
	OR		
13b	i)Differentiate PAL and PLA implementations with the help of the same example $F_2(a,b,c) = \Sigma(0,1,3,4,6,7)$. ii) Design a Modulo-6 asynchronous binary up-counter.	C202.5	K2

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CYCLE TEST – I			Date/Session	25.01.2020	Marks	60
Course code	CS8592	Course Title	OBJECT ORIENTED ANALYSIS AND DESIGN			
Regulation	2017	Duration	2 Hrs	Academic Year	2019-2020	
Year	III	Semester	VI	Department	IT	
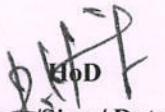
COURSE OUTCOMES	
C311.1:	Express software design with UML diagrams
C311.2:	Design software applications using OO concepts.
C311.3:	Identify various scenarios based on software requirements
C311.4:	Transform UML based software design into pattern based design using design patterns
C311.5:	Understand the various testing methodologies for OO software
C311.6:	Test the software against its requirements specification

Q.No.	Question	CO	BTS
	PART A (Answer all the Questions 10 x 2 = 20 Marks)		
1	What is an object? Give an example.	C311.1	K1
2	What is Analysis and Design?	C311.1	K1
3	Define OOAD.	C311.2	K2
4	Define Unified Process (UP).	C311.2	K2
5	State Class Diagram.	C311.2	K1
6	Compare Aggregation and Composition.	C311.1	K4
7	What is meant by Deployment diagram?	C311.2	K1
8	Define Domain Model.	C311.2	K2
9	List of three perspectives to apply UML.	C311.1	K1
10	Mention the key requirement artifacts.	C311.1	K1
	PART B (Answer all the Questions 2 x 13 = 26 Marks)		
8a	What is Elaboration? Explain why elaboration is complex? (13)	C311.1	K2
	(OR)		
8b	Explain the benefits and concepts of use case and use case model and analyze the relating use cases have in ATM system. (13)	C311.1	K2
9a	(i)What is UP? (6) (ii)Explain briefly about the Four Major phases of Unified Process? (7)	C311.2	K1
	(OR)		
9b	Explain with an example relationship between sequence diagram and use cases. (13)	C311.2	K1
	PART C (Answer all the Questions 1 x 14= 14Marks)		
10a	List the Various UML diagrams and explain the purpose of each diagram. (14)	C311.2	K2
	(OR)		
10b	Describe the Design pattern concepts with examples. (14)	C311.2	K2

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Cycle Test - II			Date/Session	17.05.2022/FN	Marks		60
Course code	CS8691	Course Title	ARTIFICIAL INTELLIGENCE				
Regulation	2017	Duration	2 Hrs	Academic Year		2021-2022	
Year	III	Semester	VI	Department		CSE	
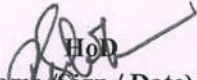
COURSE OUTCOMES

C311.1:	Write the basics of Artificial Intelligence
C311.2:	Use appropriate search algorithms for any AI problem
C311.3:	Represent a problem using first order and predicate logic
C311.4:	Provide the apt agent strategy to solve a given problem
C311.5:	Design software agents to solve a problem
C311.6:	Design applications for NLP that use Artificial Intelligence.

Q.No.	Questions	CO	BTS
	PART A (Answer all the Questions 10 x 2 = 20 Marks)		
1.	Define Unification.	C311.3	K1
2.	What is forward chaining?	C311.3	K1
3.	Clarify the concept of mental event.	C311.3	K3
4.	What are the types of Intelligent?	C311.4	K2
5.	Define Knowledge representation.	C311.3	K1
6.	List out the issues in Knowledge representation.	C311.3	K1
7.	Define Ontological engineering.	C311.3	K1
8.	Define Monotic Reasoning.	C311.3	K1
9.	Draw the Truth Table P and Q.	C311.4	K3
10.	Define Knowledge Engineering.	C311.3	K1
	PART B (Answer all the Questions 2 x 13 = 26 Marks)		
11a	Can you explain Mental Events and Mental Objects with example? (13)	C311.3	K4
	OR		
11b	Illustrate the concept of Ontological Engineering. (13)	C311.3	K4
12a	Discuss in detail about Knowledge representation. (13)	C311.3	K4
	OR		
12b	Illustrate the concepts for Prepositional Logic. (13)	C311.3	K4
	PART C (Answer all the Questions 1 x 14 = 14 Marks)		
13.	Explain the detailed concept about intelligent agent with Architecture. (14)	C311.4	K2

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CYCLE TEST - I			Date/Session	25.09.21/FN	Marks		60
Course code	EE8301	Course Title	ELECTRICAL MACHINES I				
Regulation	2017	Duration	90 minutes	Academic Year		2021 - 2022	
Year	II	Semester	III	Department		EEE	

COURSE OUTCOMES

C204.1	Ability to analyses the magnetic-circuits
C204.2	Ability to acquire the knowledge in constructional details of transformers.
C204.3	Ability to comprehend the concepts of electromechanical energy conversion
C204.4	Ability to gain the knowledge in working principles of DC Generator
C204.5	Ability to infer the knowledge in working principles of DC Motor
C204.6	Ability to summarize the knowledge in various losses taking place in D.C. Machines

Q.No.	Question	CO	BTS
	PART A (Answer all the Questions 10 x 2 = 20 Marks)		
1	What it meant by statically induced emf	C204.1	K1
2	In what type of machine rotating magnetic field is possible	C204.1	K1
3	Define self-inductance	C204.1	K1
4	Formulate the concept of mutual inductance	C204.1	K6
5	Relate self, mutual inductance and coefficient of coupling?	C204.1	K2
6	List the application of equivalent circuit of transformer?	C204.2	K2
7	Summarize the properties of oil used in transformer?	C204.2	K2
8	Match the regulation up and regulation down for a voltage transformer.	C204.2	K1
9	How are sledging in transformer oil caused?	C204.2	K1
10	Defend the reason behind auto transformer not used as distribution transformer	C204.2	K5
	PART B (Answer all the Questions 2 x 13 = 26 Marks)		
11a	Interpret the expression for self-inductance and mutual inductance and also define coefficient of coupling	C204.1	K6
	OR		
11b	Two coils having 100 and 150 turns respectively are wound side by side on a closed iron circuit of section 125 cm^2, mean length 200cm. If permeability of iron is 2000. Estimate, (i). Self-inductance, (ii). Mutual inductance, (iii). Emf induced in 2nd coil if current in 1st coil changes from 0 to 5 Ampere.	C204.1	K6
12a	With the circuit diagram explain the sumpner test and how to obtain the efficiency of a transformer	C204.2	K2
	OR		
12b	Explain in detail the operation of transformer. Derive its EMF equation	C204.2	K2
	PART C (Answer all the Questions 1 x 14 = 14 Marks)		
13	The total core loss of a specimen of silicon steel is found to be 1500 watts at 50Hz, Keeping the flux density constant, the loss becomes 3000 watts when the frequency is raised to 75 Hz. Find the hysteresis loss and eddy current losses at each of those frequencies.	C204.1	K1

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Cycle test - II			Date/Session	20.05.2022/FN	Marks		60
Course code	EC8453	Course Title	LINEAR INTEGRATED CIRCUITS				
Regulation	2017	Duration	2 HOURS	Academic Year		2021-2022	
Year	II	Semester	IV	Department		ECE	

COURSE OUTCOMES

C214:1	To analyse the basic building blocks of linear integrated circuits
C214:2	To learn the linear and non-linear applications of operational amplifiers
C214:3	To introduce the theory and applications of analog multipliers and PLL
C214:4	To learn the theory of ADC and DAC
C214:5	To introduce the concepts of waveform generation and
C214:6	To analyse the special function ICs

Q.No.	Question	CO	BTL
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	Draw the configuration of Gilbert multiplier cell with its pre distortion unit.	C214.4	K1
2	Differentiate between current mode and voltage mode R-2R ladder D/A converter?	C214.4	K4
3	List the applications of analog multiplier.	C214.4	K1
4	What is VCO? Write down its frequency conversion factor.	C214.4	K2
5	Mention the applications of PLL	C214.4	K1
6	Draw the circuit of AM detector using PLL.	C214.4	K1
7	Explain how a frequency double can be realized using analog multiplier.	C214.3	K2
8	Draw the sample and hold circuit..	C214.3	K1
9	Define resolution of DAC.	C214.3	K1
10	Compare and contrast binary ladder and R-2R ladder DAC.	C214.3	K4
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
11a	Explain various types of analog multiplication techniques (13)	C214.3	K2
	OR		
11b	Explain in detail about VCO using suitable diagram. Also derive its voltage to frequency Conversion factor (13)	C214.3	K2
12a	Explain in detail about features of following DAC **i)** Current mode and voltage mode **ii)** 4 bit weighted resistor type DAC (7+6)	C214.3	K2
	OR		
12b	Explain the following types of switches used in D/A converter with suitable diagram Totem pole MOSFET switch **ii)** CMOS inverter switch (13)	C214.3	K2
	PART C **(Answer all the Questions 1 x 14 = 14 Marks)**		
13a	Describe the closed loop analysis of PLL with necessary diagrams. (14)	C214.4	K2
	OR		
13b	Explain about operation of PLL with its IC detail (14)	C214.4	K2

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Cycle Test - II			Date/Session	08.05.2023/AN	Marks		100
Course code	EE3403	Course Title	MEASUREMENTS AND INSTRUMENTATION				
Regulation	2021	Duration	3 hrs	Academic Year		2022-2023	
Year	II	Semester	IV	Department		EEE	

COURSE OUTCOMES	
C214.1	Acquire knowledge on Basic functional elements of instrumentation
C214.2	Explaining the concepts of Fundamentals of electrical and electronic instruments
C214.3	Compare between various measurement techniques
C214.4	Acquire knowledge on Various storage and display devices
C214.5	Explaining the concepts Various transducers and the data acquisition systems
C214.6	Model and differentiating the electrical and electronic Instruments and understand the operational features of display Devices and Data Acquisition System.

Q.No.	Question	CO	BTS
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	State the advantages of using the bridge circuits for the measurement.	C214.3	K1
2	What is the sensitivity of Wheat stone bridge?	C214.3	K1
3	Which measurement can be carried out by Maxwell bridge?	C214.3	K1
4	Explain is wein's bridge.	C214.3	K2
5	Describe is data loggers.	C214.3	K1
6	Compare hay's bridge with maxwell's bridge.	C214.3	K4
7	What is transducer?	C214.5	K1
8	Mention some advantages of electric transducers.	C214.5	K1
9	Relate the classification of transducers.	C214.5	K1
10	Compare analog and digital transducers.	C214.5	K4
	PART B **(Answer all the Questions 5 x 13 = 65 Marks)**		
11a	Draw a neat diagram of Kelvin double bridge and explain how to measure low resistance.	C214.3	K2
	OR		
11b	Obtain an expression for measurement of inductance using maxwell's inductance bridge with a neat circuit diagram.	C214.3	K3
12a	Explain how the inductance is measured in terms of known capacitance using maxwell's bridge . Derive the conditions for balance.	C214.3	K2
	OR		
12b	Why Hay's bridge is suited for measurement of inductance of high coils?	C214.3	K1
13a	Explain in detail about the systematic error.	C214.4	K2
	OR		
13b	Describe the smart sensor and its application.	C214.4	K1
14a	Explain the classification of transducer.	C214.5	K2
	OR		

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Cycle Test - II			Date/Session	24.02.2023 / AN	Marks		100
Course code	PH3151	Course Title	ENGINEERING PHYSICS				
Regulation	2021	Duration	3 hours	Academic Year		2022 - 2023	
Year	I	Semester	I	Department		All Branches	

COURSE OUTCOMES

C103.1	Acknowledge the importance of mechanics.
C103.2	Express their knowledge in electromagnetic waves.
C103.3	Demonstrate a strong foundational knowledge in oscillations, optics and lasers.
C103.4	Establish a strong foundational knowledge in fibre optics and laser
C103.5	Comprehend the importance of quantum physics.
C103.6	Comprehend and apply quantum mechanical principles towards the formation of energy bands.

| Q.No.	Question	CO	BTS
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	List out the conditions to be satisfied for total internal reflection?	C103.3	K1
2	What is meant by Doppler effect?	C103.3	K2
3	What is the physical significance of a wave function?	C103.5	K2
4	What is meant by photon? Give any two properties.	C103.5	K2
5	What is meant by Degenerate and non-degenerate.	C103.5	K2
6	What is meant by correspondence principle? Give example.	C103.5	K2
7	What do you understand by the term Transmission Co-efficient?	C103.6	K2
8	What is meant by Quantum tunneling?	C103.6	K2
9	Give any two applications of STM.	C103.6	K1
10	What is the principle used in Resonant tunneling diode?	C103.6	K2
	PART B **(Answer all the Questions 5 x 16 = 80 Marks)**		
11a	What is meant by simple harmonic motion? Arrive at the differential equation for a particle executing SHM	C103.3	K2
	OR		
11b	Describe the construction and working of Michelson's Interferometer.	C103.3	K2
12a	Explain Compton effect and derive an expression for the wavelength of Scattered photon.	C103.5	K2
	OR		
12b	Explain the Schrödinger wave equation to one dimensional potential well	C103.5	K2
13a	Derive Schrödinger's time dependent and time independent equations .	C103.5	K3
	OR		
13b	Derive the Eigen values and Eigen functions for a 1-D potential box	C103.5	K3
14a	Derive the Eigen values and Eigen functions for a 3-D potential box	C103.6	K3
	OR		
14b	Describe the principle, construction and working of a scanning tunneling microscope	C103.6	K2
15a	Describe the barrier penetration process and quantum tunneling of an electron.	C103.6	K3
	OR		
15b	Write a brief note on Bloch's theorem for particles in a periodic potential and Kronig penney model	C103.6	K3

Course Faculty 2/2/23
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Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Cycle Test Answer Key

Cycle Test - 1

Course code :. EE8391   Date:. 01/8/18 — AN
Course Title :. Electromagnetic Theory   marks: 50
Department : EEE (2017R)   Year/Sem : II | III

2018-2019

Answer Key

PART - A

1) Define stokes Theorem::
              The line integral of a vector around a closed path is equal to the surface integral of the normal component of it's curl over any closed surface

$$\oint H \cdot dl = \oiint_S \nabla \times H \, ds$$

2) State Divergence Theorem::
    The volume integral of the divergence of a vector field over a volume is equal to the Surface integral of the normal component of this vector over the surface bounding the Volume.

$$\oiiint_V \nabla \cdot A \, dv = \oiint_S A \cdot ds$$

3) Identify the unit vector & Magnitude

$$A = 5a_x + a_y + 3a_z$$

$$U_A = \frac{\vec{A}}{|A|}$$

$$\Rightarrow \frac{5a_x + a_y + 3a_z}{\sqrt{25 + 1 + 9}} = \frac{5a_x + a_y + 3a_z}{\sqrt{35}}$$

4) What is co-ordinate system & it's types:-

Arrangement of reference lines or curves used to identify the location of points in space.

Types:
1. cartesian co-ordinate system
2. cylindrical " "
3. spherical " ".

5) State coulomb's Law.

The force between two very small objects separated by a distance which is large compared to their size is proportional to the charge on each and inversely proportional to the square of the distance between them.

$$F = \frac{Q_1 Q_2}{4\pi \varepsilon r^2} \bar{a}_{12}$$

6. Gauss Law.

The electric flux passing through any closed surface is equal to the total charge enclosed by that surface.

$$\psi = Q.$$

7. Define Electric Field intensity.

Electric field intensity is defined as the electric force per unit positive charge. It is denoted by E.

$$E = \frac{F}{Q} \quad N/c \ (or) \ V/m.$$

$$E = \frac{Q}{4\pi \varepsilon r^2}$$

8(a) curl of a vector field in cylindrical and spherical coordinates.

cylindrical :-

$$\nabla \times \vec{A} = \frac{1}{\rho} \begin{vmatrix} \vec{a\rho} & \rho\vec{a\phi} & \vec{a_z} \\ \partial/\partial\rho & \partial/\partial\phi & \partial/\partial z \\ A\rho & \rho A\phi & A_z \end{vmatrix}$$

spherical system :-

$$\nabla \times \vec{A} = \frac{1}{r^2 \sin\theta} \begin{vmatrix} \vec{ar} & r\vec{a\theta} & r\sin\theta\vec{a\phi} \\ \partial/\partial r & \partial/\partial\theta & \partial/\partial\phi \\ Ar & rA\theta & r\sin\theta A\phi \end{vmatrix}$$

(or)

8(b) divergence Theorem :-

$$\oint\oint \vec{F} \hat{n} \, ds = \oint\oint\oint (\nabla \cdot \vec{F}) \, dv$$
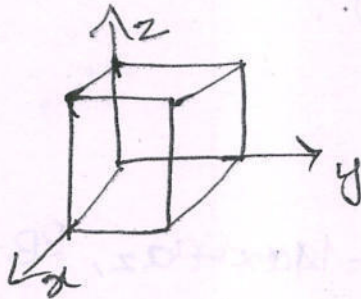
$$\vec{F} = F_x \vec{ax} + F_y \vec{ay} + F_z \vec{a_z} \longrightarrow ①$$

$$\nabla = \partial/\partial x \, \vec{ax} + \frac{\partial}{\partial y} \vec{ay} + \partial/\partial z \, \vec{a_z} \longrightarrow ②$$

$$\nabla \cdot \vec{F} = \frac{\partial F_x}{\partial x} + \frac{\partial F_y}{\partial y} + \frac{\partial F_z}{\partial z} \longrightarrow ③$$

$$\int\int\int (\nabla \cdot \vec{F}) \, dv = \int\int F_{sx} \cdot ds_x + \int\int F_{sy} \cdot ds_y + \int\int F_{sz} \cdot ds_z$$

$$\boxed{\int\int\int (\nabla \cdot \vec{F}) \, dv = \int\int \vec{F} \hat{n} \, ds.}$$

9(a) $A(x=2, y=3, z=-1)$

$B(r=4, \theta=25°, \phi=120°)$

$$x = r \sin\theta \cos\phi$$
$$y = r \sin\theta \sin\phi$$
$$z = r \cos\theta$$

$$x = 4 \sin(25°) \cos(120°)$$
$$\Rightarrow -0.21$$

$$y = 4 \cdot \sin(25°) \sin(120°)$$
$$\Rightarrow 1.464$$
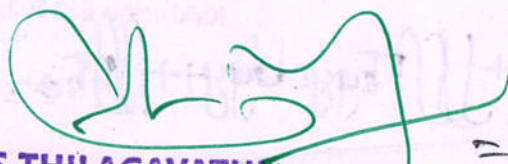
$$z = 4 \cos(25°).$$
$$= 3.63 //$$

9(b).   Three fields $A = 4a_x + a_z$, $B = 4a_x - 2a_y + 4a_z$

$C = 4a_x + 6a_y + 2a_z$. find the vector and scalar

Multiple product.

Soln:-

(i) Scalar triple product.

$$\vec{A} \cdot (\vec{B} \times \vec{C}) = \begin{vmatrix} A_x & A_y & A_z \\ B_x & B_y & B_z \\ C_x & C_y & C_z \end{vmatrix}$$

$$= \begin{vmatrix} 4 & 0 & 1 \\ 4 & -2 & 4 \\ 4 & 6 & 2 \end{vmatrix}$$

$$= 4(-4-24) - 0(8-16) + 1(24+8)$$

$$\Rightarrow 4(-28) - 0(-8) + 1(32)$$

$$\Rightarrow -112 + 0 + 32$$

$$\Rightarrow -80 \Big/$$

(ii) Vector triple product:

$$\vec{A} \times (\vec{B} \times \vec{C}) = \vec{B}(\vec{A} \cdot \vec{C}) - \vec{C}(\vec{A} \cdot \vec{B}),$$

$$\vec{A} \cdot \vec{C} = (4a_x + a_z) \cdot (4a_x + 6a_y + 2a_z)$$

$$\Rightarrow 16 + 0 + 2 = 18$$

$$\vec{A} \cdot \vec{B} = (4a_x + a_z) \cdot (4a_x - 2a_y + 4a_z)$$

$$\Rightarrow 16 - 0 + 4 = 12$$

$$\vec{B}(\vec{A} \cdot \vec{C}) = (4a_x - 2a_y + 4a_z)(18)$$

$$= 72 \cdot \vec{a_x} - 36\vec{a_y} + 72\vec{a_z}$$

$$\vec{C}(\vec{A} \cdot \vec{B}) = (4\vec{a_x} + 6\vec{a_y} + 2\vec{a_z})(12)$$

$$\Rightarrow 48\vec{a_x} + 72\vec{a_y} + 24\vec{a_z}$$

$$\Rightarrow (72\vec{a_x} - 36\vec{a_y} + 72\vec{a_z}) - (48\vec{a_x} + 72\vec{a_y} + 24\vec{a_z}$$

$$\Rightarrow 24\vec{a_x} - 36\vec{a_y} + 48\vec{a_z}$$

$$\vec{A} \times (\vec{B} \times \vec{C}) \Rightarrow 12(2\vec{a_x} - 3\vec{a_y} + 4\vec{a_z})$$

4.

PART - C

10. b) Gauss Law & Applications.

(i) It's used to determine enclosed charge if the value of D (or) E are known.

(ii) It's used to determine electric field (or) ψ flux from the concept of enclosed charge and surface.

$$\iint \vec{D} \cdot \hat{n} \, ds = Q = \psi \quad \textcircled{1}$$

$$D = \varepsilon E \quad \textcircled{2}$$

$$E = \frac{Q}{4\pi \varepsilon r^2} \quad \textcircled{3}$$

$$D = \frac{Q}{4\pi r^2} \quad \textcircled{4}$$

$$= Q$$

Hence proved.

$$D = Dr \, \vec{ar} + D\theta \, \vec{a\theta} + D\phi \, \vec{a\phi} \quad \textcircled{5}$$

$$ds = r^2 \sin\theta \, d\theta \, d\phi \, \vec{ar} \quad \textcircled{6}$$

10. (a) Laplace and Poissons equation.

$$\iint \vec{D} \cdot \hat{n} \, ds = Q \quad \textcircled{1}$$

from volume charge density

$$\rho_v = \frac{Q}{V}$$

$$Q = \rho_v \cdot V$$

$$= \iiint \rho_v \cdot dv \quad \textcircled{2}$$

$$\textcircled{1} = \textcircled{2} \qquad \iint \vec{D} \cdot \hat{n} \, ds = \iint \rho_v \cdot dv \quad \textcircled{3}$$

By applying divergence theorem,

$$\iint \vec{D} \, \hat{n} \, ds = \iiint \nabla \cdot D \, dv \rightarrow \text{④}$$

$$\text{③} = \text{④} \quad \iiint \rho_v \, dv = \iint \nabla \cdot D \, dv \rightarrow \text{⑤}$$

$$\nabla \cdot D = \rho_v$$

$$\nabla \cdot (\varepsilon E) = \rho_v$$

$$\nabla \cdot E = \rho_v / \varepsilon$$

$$E = -\nabla V$$

$$\nabla \cdot (-\nabla V) = \rho_v / \varepsilon$$

$$-\nabla^2 V = \rho_v / \varepsilon, \qquad \nabla^2 V = -\frac{\rho_v}{\varepsilon} \; (\text{poissons eqn})$$

Assume $\rho_v = 0$

$$\nabla^2 V = 0 / \varepsilon$$

$$\boxed{\nabla^2 V = 0} \quad [\text{Laplace Eqn}]$$

x

A. Barth

FACULTY INCHARGE

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CYCLE TEST I ANSWER KEY

Subject Code : CS8392
Subject Name: Object Oriented Programming
Year /Sem   : II/III   [2018 - 2019]

PART-A

1. Define Object Oriented Programming paradigms.
   Object-oriented programming is a programming paradigm based on the concept of "objects", which can contain data and code

2. What are the concepts of OOPS?
   - Objects
   - Classes
   - Data Abstraction

3. Define Object and Object variable.
   The Object is the instance itself, whereas the Object Variable is the reference to the Object.

4. What is the purpose of default constructor?
   The purpose of constructor is to initialize the object of a class while the purpose of a method is to perform a task by executing java code.

5. Define static methods.
   Static methods are also similar to static variables, you can access them with reference to class name, without creating object.

6. What is meant by abtract classes?
   In Java, we can have an abstract class without any abstract method. This allows us to create classes that cannot be instantiated, but can only be inherited.

7. What is the use of extend keyword?
   The extend keyword is used in java. When the child class is derived from parent class then the keyword extend is used.

PART B

8.a Explain in detail about the Object Oriented concepts.

Object-oriented programming is a programming paradigm based on the concept of "objects", which can contain data and code: data in the form of fields, and code, in the form of procedures. A common feature of objects is that procedures are attached to them and can access and modify the object.

- Objects
- Classes

- Data Abstraction
- Data Encapsulation
- Inheritance
- Polymorphism
- Message Passing
- Dynamic Binding

8.b Explain control statements with suitable example.

Decision-making statements decide which statement to execute and when. Decision-making statements evaluate the Boolean expression and control the program flow depending upon the result of the condition provided. There are two types of decision-making statements in Java, i.e., If statement and switch statement.

9.a Explain the concepts of operators with an example.

Operators in Java are the symbols used for performing specific operations in Java. Operators make tasks like addition, multiplication, etc which look easy although the implementation of these tasks is quite complex

9.b Explain how Interface is implemented in java with a suitable example.

An Interface in Java programming language is defined as an abstract type used to specify the behavior of a class. An interface in Java is a blueprint of a behaviour. A Java interface contains static constants and abstract methods.

10.a Describe about classes in java and programming structure in java with examples.

Java is an object-oriented programming language.Everything in Java is associated with classes and objects, along with its attributes and methods. For example: in real life, a car is an object. The car has **attributes**, such as weight and color, and **methods**, such as drive and brake.A Class is like an object constructor, or a "blueprint" for creating objects.

10.b Explain constructor methods with suitable example.

In Java, a constructor is a block of codes similar to the method. It is called when an instance of the class is created. At the time of calling constructor, memory for the object is allocated in the memory.

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HoD/CSE

CYCLE TEST – II

EC 6503 – TRANSMISSION LINE & WAVE GUIDES

18-19

PART-A

1) What is the input impedance of a eighth-wave, quarter wave and half wave lines?

For eighth wave line,

$$Z_{in} = R_0 \left[\frac{R_R + jR_0}{R_0 + jR_R} \right]$$

For quarter wave line,

$$Z_{in} = \frac{R_0^2}{Z_R}$$

For a half wave line $Z_{in} = Z_R$.

2) What are the applications of smith chart?
- ✓ Measurement of input impedance
- ✓ Measurement of SWR
- ✓ Measurement of reflection co-efficient
- ✓ Location of voltage maximum and minimum.

3) Write the expression for the length of the stub in single stub matching.

$$L = \frac{\lambda}{2\pi} \tan^{-1} \frac{\sqrt{S}}{S-1}$$

4) Give an application of an Eight wave line.
- ✓ The input impedance of an Eight wave line is given by

$$|Z_s| = R_0.$$

- ✓ To obtain a magnitude match between a resistance of any value and a source of R_0 internal resistance.
- ✓ Used to transform any resistance to an impedance with a magnitude equal to R_0.

(5) define skin depth.

$$\delta = \frac{1}{\sqrt{\pi f M \sigma}}$$

$M \rightarrow$ permeability $\quad \sigma \rightarrow$ Conductivity.

it is defined as a measure of depth to which an EM wave can penetrate the medium.

(6) what are guided waves? Give examples.

$\rightarrow$ Electromagnetic waves that are guided along (or) over conducting (or) dielectric Surfaces are called guided waves.

Examples: waves along Parallel wire transmission lines.

(7) define phase & group velocity.

phase velocity :— $V_P = \frac{\omega}{\beta} = \frac{V}{\sqrt{1 - \left(\frac{fc}{f}\right)^2}} \quad V = \frac{1}{\sqrt{M\varepsilon}}$

$\quad \varepsilon \cdot V = 3 \times 10^8 \, m/s$

group velocity :— $V = \frac{d\omega}{d\beta} = V \sqrt{1 - \left(\frac{fc}{f}\right)^2}$

PART-B

(8)
a) Design a quarter wave transformer to match a load of 200-Ω to a source resistance of 500 Ω. Operating frequency is 200 MHz.

Given: $Z_R = 200 \Omega$, $Z_S = 500 \Omega$

200 MHz.

Solution: $Z_S = \frac{R_0^2}{Z_R}$ $\qquad R_0 = \sqrt{Z_S Z_R} = \sqrt{(500)(200)}$ $\longrightarrow$ [3 Mar]

Formulae & Conditions $\longrightarrow$ [3 Mar]

$R_0 = 316.22 \, \Omega$.

Input impedance of $\lambda/4$ transformer $\quad R_0 = 316.22 \, \Omega$.

The freq of operation is $f = 200 \, MHz$.

wavelength $\lambda = \frac{C}{f} = \frac{3 \times 10^8}{200 \times 10^6} = 1.5 \, m$.

[2 marks]

$$X = C_1 \cos B x + C_2 \sin B x.$$

$$Y = C_3 \cos Ay + C_4 \sin Ay.$$

$$E_x^0 = \frac{-j\omega\mu}{h^2} \frac{\partial H_z^0}{\partial y}$$

$$E_y^0 = \frac{j\omega\mu}{h^2} \frac{\partial H_z^0}{\partial x}$$

$$A = \frac{n\pi}{b} \quad n = 1, 2, 3 \ldots$$

$$B = \frac{m\pi}{a} \quad m = 1, 2, 3 \ldots$$

$\rightarrow$ 4 Mar

$$H_z = H_z^0 \, e^{-j\beta z}$$

$$E_x = \frac{j\omega\mu}{h^2} A C \cos Bx \, \sin Ay \, e^{-j\beta z}$$

$$E_y = -\frac{j\omega\mu}{h^2} BC \sin Bx \, \cos Ay \, e^{-j\beta z}$$

$$H_x = \frac{j\beta}{h^2} CB \sin Bx \, \cos Ay \, e^{-j\beta z}$$

$$H_y = \frac{j\beta}{h^2} CA \cos Bx \, \sin Ay \, e^{-j\beta z}$$

$\rightarrow$ 4 marks

(a) (b) An air filled, resonant cavity with dimensions $a = 5 cm$, $b = 4 cm$
and $c = 10 cm$ is made of copper $(\sigma_c = 5.8 \times 10^7 \text{ mhos/m})$.
Find the resonant frequency of a) five lowest order mode.
b) quality factor TE_{101} mode.

Current
$a = 5 cm$, $b = 4 cm$, $c = 10 cm$.

Solution

a) Resonant frequency $f_0 = \frac{v}{2} \sqrt{\left(\frac{1}{a}\right)^2 + \left(\frac{1}{b}\right)^2 + \left(\frac{1}{c}\right)^2}$

$TE_{101} \Rightarrow f_0 = \frac{3 \times 10^8}{2} \sqrt{\left(\frac{1}{5 \times 10^{-2}}\right)^2 + \left(\frac{1}{10 \times 10^{-2}}\right)^2} = 3.35\ GHz.$

$TE_{110} \rightarrow 4.8\ GHZ$ $TE_{011} \rightarrow 4.038\ GHz$ $TE_{111} \rightarrow 5.83\ GH$

$TE_{102} \rightarrow 4.24\ GHZ.$

each carries $\rbrace \rightarrow$ 2 Marks
$[4 \times 2 = 8M$

b) Quality factor for TE_{101} Mode:

$$Q_{TE_{101}} = \frac{(a^2 + c^2) \, abc}{8 \left[a^2 b (a^3 + b^3) + ac(a^2 + c^2) \right]}$$

$\rightarrow$ 5 Mar.

$$Q = 0.0164 \sqrt{\pi f_{101} \mu_0 \, \sigma_c} \Rightarrow 14358$$

The length of the quarter wave line $S = \lambda/4$ → [2 Marks]

$$S = \lambda/4 = \frac{1.5}{4} = 0.375 \, m.$$ → [3 Marks]

(b) A load impedance of $90-j50 \, \Omega$ is to be matched to a line of 50Ω using single stub matching. Find the length and position of the stub. $Z_0 = 50\Omega$; $Z_R = 90-j50\Omega$.

Solution: $K = \dfrac{Z_R - Z_0}{Z_R + Z_0}$ → [2 Marks]

$$K = 0.4307 \angle -31.69° \qquad \phi = -31.69°$$
$$\frac{}{|K| \angle 0.4307} \quad → [4 \text{ Mark}]$$

Location of the stub $S = \dfrac{\lambda}{4\pi}\left[\phi + \pi - \cos^{-1}|K|\right]$ → [2 Mar]

$$S = \lambda/4\pi \left[0.466\,\pi\right] = 0.116\,\lambda.$$ → [2 Mar]
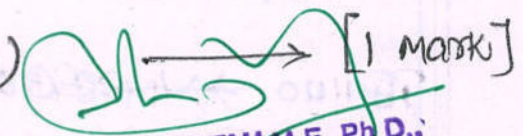
Length of the stub $L = \dfrac{\lambda}{4\pi}\tan^{-1}\left[\sqrt{\dfrac{1-|K|^2}{2|K|}}\right]$

$$L = \dfrac{\lambda}{4\pi}\left[0.257\,\pi\right]$$ → [3 Marks]

$$\boxed{L = 0.1286\,\lambda.}$$

(9)
(a) Derive the field equations of TE waves Travelling in Z direction in a rectangular wave guide.

For TE waves, $E_z = 0$. $(H_z \neq 0)$ → [1 Mark]

The wave equations is given by,

$$\frac{\partial^2 H_z}{\partial x^2} + \frac{\partial^2 H_z}{\partial y^2} + \gamma^2 H_z = \text{...}$$ → [2 Mark]

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$$Y\frac{d^2x}{dx^2} + X\frac{d^2y}{dy^2} + b^2 xy = 0.$$ Condition → [2 Mark]

$$b^2 - A^2 = B^2$$

(10) A 50 Ω lossless transmission line is terminated in a Load Impedance of $Z_L = 25 + j50$ Ω. Use the Smith chart to find a) voltage reflection co-efficient b) VSWR c) Input impedance of the line, given that the line is 3.3 λ long and d) Input admittance of the line.

Solution:

1) Normalized Load Impedance

$$Z_L' = \frac{Z_L}{Z_0} = \frac{25 + j50}{50}$$

$$Z_L' = 0.5 + j1 \text{ Ω} . \qquad \longrightarrow \quad [2 \text{ Marks}]$$

$$\longrightarrow \quad [3 \text{ Marks}]$$

2) SWR = 4.3 $\qquad\qquad\qquad \longrightarrow \quad [2 \text{ Marks}]$

3) reflection co-efficient $k = 0.64$. $\longrightarrow \quad [2 \text{ Marks}]$

$$\longrightarrow \quad [3 \text{ Marks}]$$

4) Smith chart diagram
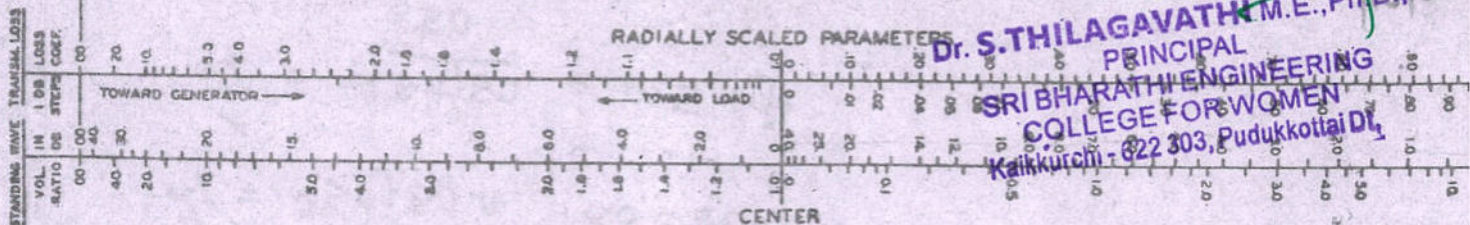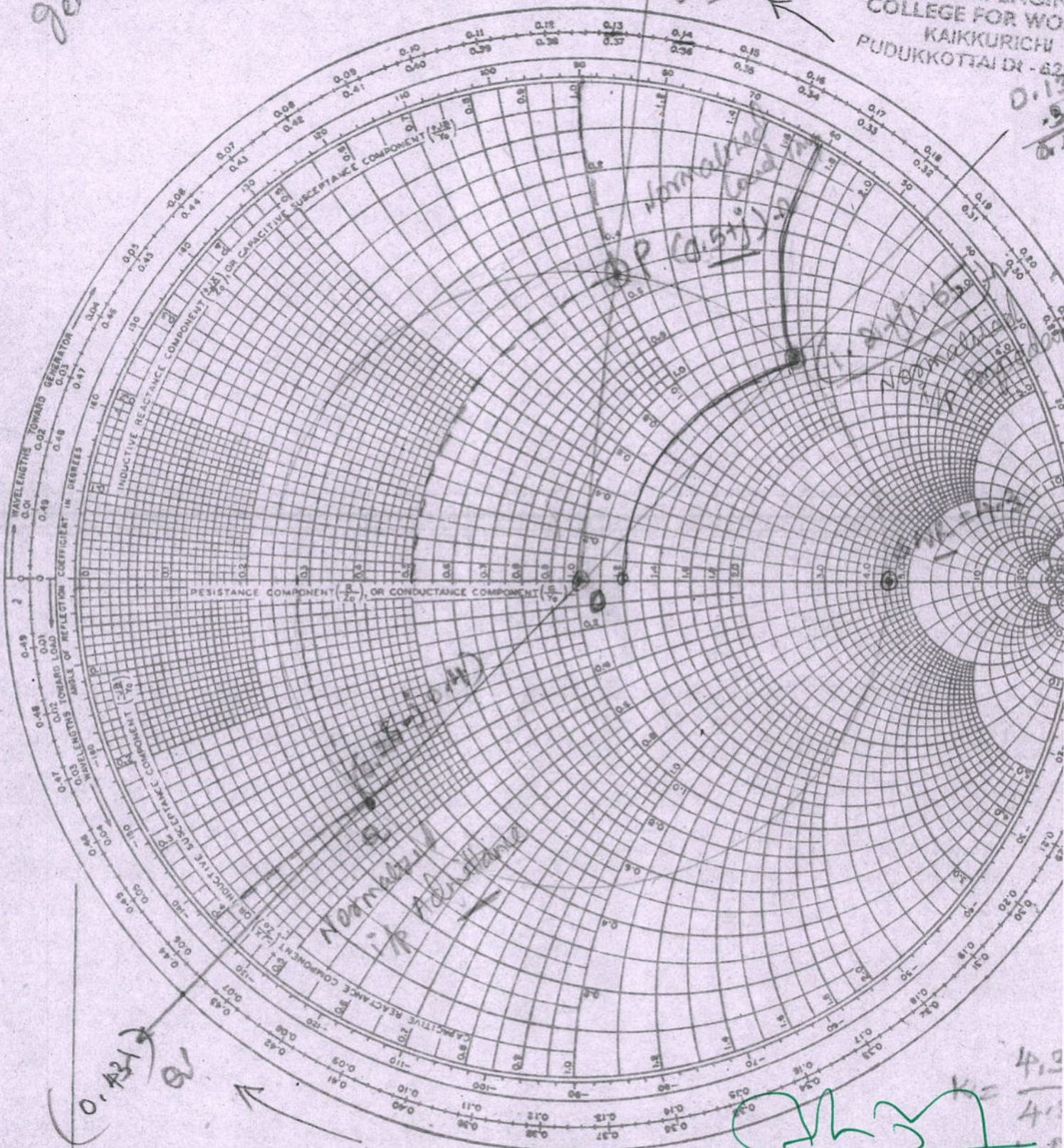
PART-A

1. promotors :- increase the activity of the catalyst.
   poisioning :- partial (or) total deactivation of a cataly.

2. Rate (low p) = $k_2 K P_A$

3. which alternate the rate of chemical reaction.

4. (i) most efficient catalyst
   (ii) more specific

5. (i) improvement in magnetic and electrical properties.
   (ii) Refinement of grain structure.

6. alloy steel containing chromium, nickel, molybdenum
   16% chromium 4 0·3 to 1·5% carbon.

7. 1. $F = 2-1+2 = 3$

   $F = 2-3+2 = 1$

   $F = 1-3+2 = 0$

8. eutectic point : Three phases are in equilibrium.

9. system in which only the solid and liquid phases
   are considered and the gaseous phase is ignored.

PART-B

10.(i) contact theory of catalysts
   * Action of Heterogeneous catalyst
   Hydrogenation of Ethylene using catalyst.
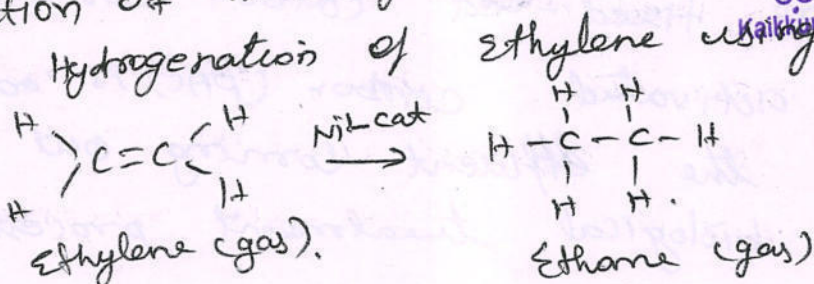
$$\begin{array}{c}H \\ \text{)}C=C\text{(}\\ H \end{array}\begin{array}{c}H \\ \\ H\end{array} \xrightarrow{Ni.cat} \begin{array}{c}H \; H \\ | \; | \\ H-C-C-H \\ | \; | \\ H \; H\end{array}$$

Ethylene (gas).   Ethane (gas)

Mechanism: Step-I – Adsorption of reactant molecules.

Step-II – Formation of Activated complex.

Step-III – Decomposition of Activated complex.

Step-IV – Desorption of products.

* finely divided state of catalyst is more efficient.

* Enhanced activity of a rough surfaced catalyst.

* Action of promotors, catalytic poisoning.

* specific action of the catalyst.

(d)(ii) Langmuir – Hinshelwood mechanism:-

$$A_{(g)} + S \underset{k_{-1}}{\overset{k_1}{\rightleftharpoons}} AS_{(Ad)}, \quad B_{(g)} + S \overset{k_2}{\rightleftharpoons} BS_{(Ad)}, \quad AS_{(Ad)} + BS_{(Ad)} \overset{k_3}{\rightarrow} prod$$
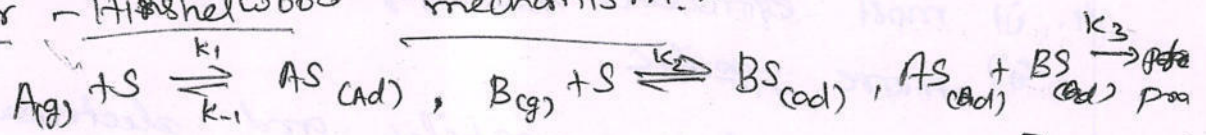
$$Rate = k_3 \theta_A \theta_B, \quad \theta = \frac{kP}{1+kP}, \quad Rate\,(r) = k_3 \theta_A \theta_B = \left[\frac{k_3 k_1 PA}{1 + k_1 PA + k} \right.$$

(i) Both the molecules have low adsorption.

$$1 \gg k_1 PA, k_2 PB \quad \therefore \quad Rate\,(r) = k_3 k_1 k_2 PA\, PB$$

(ii) One molecule have low adsorption,

$$k_1 PA, 1 \gg k_2 PB, \quad Rate\,(r) = \frac{k_3 k_1 k_2\, PA\, PB}{(1 + k_1 PA)^2}$$

(ii) one molecule have very high adsorption,

$$k_1 PA \gg 1, k_2 PB, \quad Rate\,(r) = \frac{k_3 k_1\, PA\, k_2\, PB}{(k_1 PA)^2}$$

10.b)(i)Air pollution and waste water magnement:

1. Granular activated carbon (GTAC)

2. Powdered Activated carbon (PAC)

GTAC 1. Down flow fixed-bed carbon

2. upflow fixed-bed carbon contactors.

PAC — powdered activated carbon (PAC) is added directly into the effluent coming out from the various biological treatment processes

10(b) (ii) Michaelis - menton equation:-

$$E + S \xrightarrow{K_1} X \xrightarrow{K_2} E + S$$

Enzyme substrate   Intermediate $\xrightarrow{K_3}$ P
(complex)
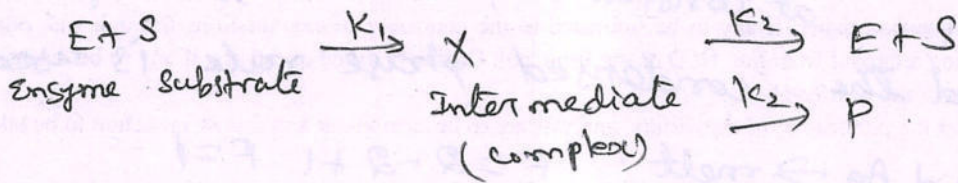
$$\frac{d[X]}{dt} = K_1 [E][S] - K_2 [X] - K_3 [X]$$

$$= K_1 [E][S] - (K_2 + K_3)[X]$$

$[E][S] \& [X]$ = molar concentration

$$\frac{d[P]}{dt} = K_3 [X] \Rightarrow \frac{d[P]}{dt} = \frac{K_3 [E_0]}{1 + K_m/[S]} \quad \text{(or)} \quad r_2 \frac{K_3 [E_0][S]}{[S] + K_0}$$

At low concentration

$$\frac{d[P]}{dt} = \frac{K_3 [E_0][S]}{K_m}$$

at higher concentration

$$\frac{d[P]}{dt} = \frac{K_3 [E_0][S]}{[S]}$$

$$= K_3 [E_0]$$

11(a) (i) Heat treatment of steel in details:-

1. Abjectives:
   * improvement in magnetic & electrical prope
   * Refinement of grain structure
   * Removal of the imprisoned trapped gases.

2. Types:
   * Annelling   * Hardening   * Tempering
   * Normalizing   * carburizing   * Nitriding.

11(a)(ii) Nichrome & Stainless steel

1. Nichrome - Nickel and chromium
steel.

Metal	%
Nickel	60%
chromium	12%
Iron	26%
maganese	2%

magnetic		Non-magne
12-22% chromium		8-26% C
0.35% carbon.		8-21% M
		0.15% C

uses: chemical equipments & automobiles.

uses: household utensils, sink dental & surgical instrume

11.(b) (i) Lead-silver system

$\quad\quad$ F = C - P + 1 $\quad$ at constant pressure, the vapour phase

is ignored and the condensed phase rule is used.

Curve OA $\quad$ Solid Ag $\rightleftharpoons$ melt. $\quad$ F = 2 - 2 + 1 $\quad$ F = 1

curve BO $\quad$ Solid Pb $\rightleftharpoons$ melt $\quad$ F = 2 - 2 + 1 $\quad$ F = 1

point "O" $\quad$ Solid Pb + Solid Ag $\rightleftharpoons$ melt $\quad$ F = 2 - 3 + 1 $\quad$ F = 0,

Areas : (molten Pb + Ag) $\quad$ F = 2 - 1 + 1 $\quad$ F = 2

11. (b (ii) Water System :-

$\quad\quad$ Solid $\rightleftharpoons$ liquid

$\quad\quad$ liquid $\rightleftharpoons$ vapour

$\quad\quad$ Solid $\rightleftharpoons$ vapour.

curve OA : $\quad$ water $\rightleftharpoons$ water vapour.

$\quad\quad$ F = C + P + 2 , F = 1 - 2 + 2 , F = 1

curve OB : $\quad$ Ice $\rightleftharpoons$ vapour.

$\quad\quad$ F = 1 - 2 + 2 , F = 1

curve OC : $\quad$ Ice $\rightleftharpoons$ water

$\quad\quad$ F = 1 - 2 + 2 , F = 1

point 'O' $\quad$ Ice $\rightleftharpoons$ water $\rightleftharpoons$ vapour

$\quad\quad$ F = C - P + 2 , F = 1 - 3 + 2 , F = 0

curve OB'

$\quad\quad$ Super-cool water $\rightleftharpoons$ vapour.

Areas $\quad$ AOB , BOC , AOC . represents water vapour, Ice

$\quad\quad$ F = C - P + 2 , F = 1 - 1 + 2 $\quad$ F = 2.

1. * Input Variables Changes if the Circuit is Stable
   * Inputs are levels, not pulses.
   * Only one input Can Change at a given time.

2. * Input are Pulses.
   * Widths of pulses are long for Circuit to respond to the input.
   * Pulse width must not be so long that it is still present after the new State is reached.

3.
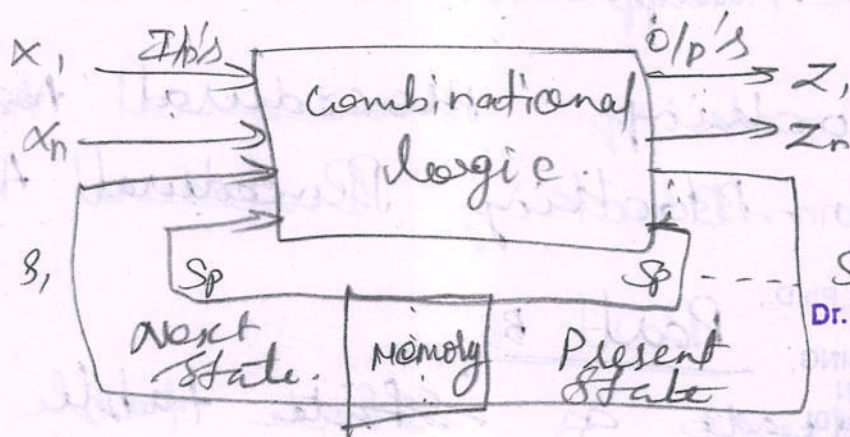
4. Two states in a sequential network are said to be equivalent if we cannot tell them apart

5.
(1) Row Matching
(2) Implication charts.
(3) Successive Partitioning.

6. It is Virtually the lowest leve of abstraction because the Switch-level abstraction is rarely used. It is Used to implement the clowest leu modules in a design.

7. It is a recently developed design and analysis methodology. for MOS VLSI Circuits.

8. Identifiers are the names you supply for variables, types, functio and labels in your program.

9. '+' - addition '-' - Subtraction
'*' - Multiplication '/' - Division.

10. 1. Blocking Procedural Assignment
2. Non - Blocking Procedural Assignmen

Part B

11. a) 1. Create a State table or State diagram from the given problem Statement.

2. Create a new reduced state table by removing all the redundant states

3. Create the transition table.

4. Write the excitation and output Boolean equations and simplify them.

5. Draw the logic diagram.   (13m)

[1.b)(i). Module my_counter (clk, reset, c_out);
      input clk, reset;   (13m)
      output [1:0] c_out;
      reg [1:0] c_up = 2'b00;
      always @ (posedge clk, negedge reset)
      begin
        if (!reset)
            c_up <= 2'b00;
        else
            c_up <= c_up + 2'b01;
      end
      assign c_out = c_up;
      Endmodule;

[2.a) i) Entity mux 8to1 is   (13m)
      Port (s: in bit_vector (2 downto 0);
      d: in bit_vector (7 downto 0);
      y: out bit);
      End mux 8to1;

architecture equation of mux 8 to 1 is
begin
with s select
y <= d(0) when '000';
d(1) when '001';
d(2) when '010';
d(3) when '011'; d(4) when '100';
d(5) when '101'; d(6) when '110';
d(7) when 'others';

12)a) Module counter (Clk, reset, up_down, l, d, c);
    input clk, reset, l, up_down;
    input [3:0] d;   (13)n
    output reg [3:0] c;
the clock
    always @ (posedge clk)
begin
    if (reset)   c = 0;
    else if (l)   c <= d;
    else if (up_down) c <= c+1;
    else   c <= c-1;
    end
end module;

12 b). 1. Data flow [Example]   4 m
       2. Structural.   4   5 m
       3. Beh

13)a)(i)   System Specification
                    ↓
           Architectural Design.
                    ↓
           Functional Design & Logic
                    Design
                    ↓
           Circuit Design.
                    ↓
           Physical Design •————— Partitioning
                    ↓   ↓
           Physical Verf & Sign off   chip planning
                    ↓   ↓
           fabrication.   Placement
                    ↓   ↓
           Packaging & Testing   clock Tree Synthes
                    ↓   ↓
           Chip.   Signal Routing
                                         ↓
                                       Timing Closure

11)b)(ii)   Entity mux2 IS.
            Port   (S, w : IN std_logic ;
                    f : OUT std_logic);
            End mux2 ;
            Archétecture : Structure of mux2 is
                Signal   m : std_logic ;
            Begin
                mapping : mux2 Port Map
                        (w(0), w(1), S(0), m(0));
            End Structure ;

(13) 5(i) **PAL**

PLA
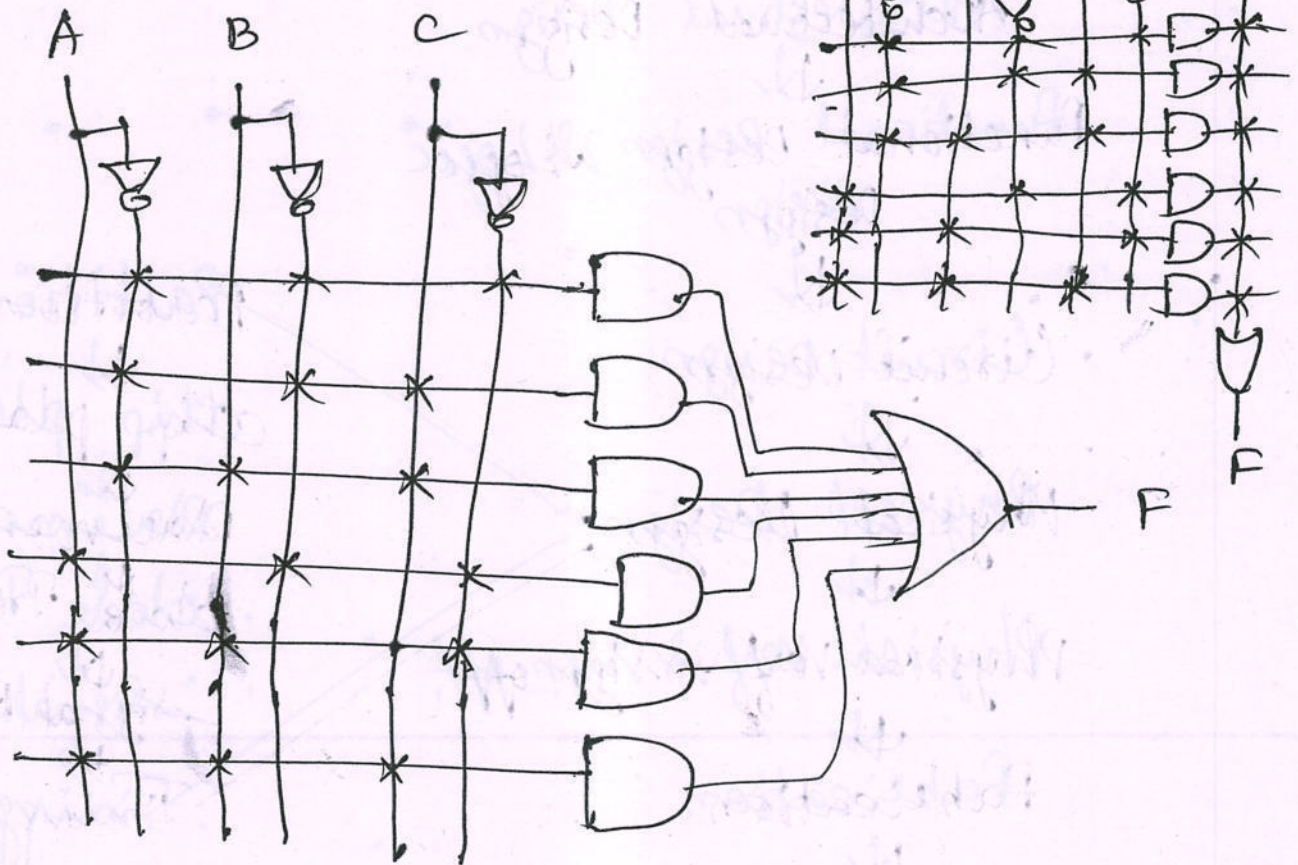
(13) b) ii)

Q_C	Q_B	Q_A	Reset logic
0	0	0	1
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	0
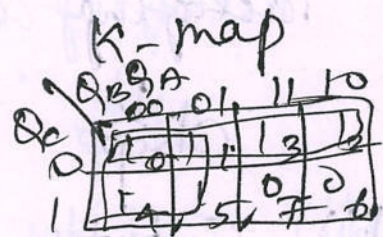
K-map

$$Y = \overline{Q_C} + Q_B$$

R. Rupi...
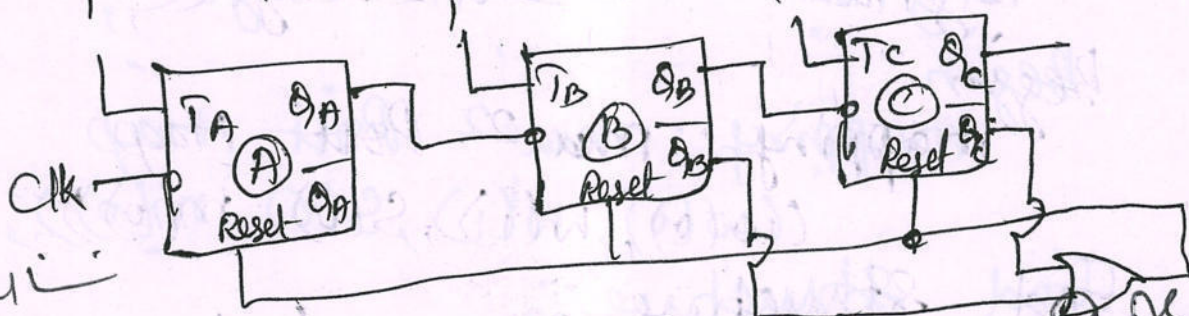
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE,New Delhi and Affiliated to Anna University,Chennai)
KAIKKURICHI, PUDUKKOTTAI-622 303.
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2019 – 2020 (ODD SEMESTER)

SUBJECT CODE &TITLE: CS8592 – OBJECT ORIENTED ANALYSIS AND DESIGN
YEAR/SEM: III YEAR & V SEMESTER   **MONTH & YEAR: JULY 2019**

ANSWER KEY
CYCLE TEST-1
PART A

1. What is an object? Give an example.
   An object is a real-world element in an object–oriented environment.

2. What is Analysis and Design?
   Analysis is an investigation of a domain that results in models Design is a description of a database schema and software objects.

3. Define OOAD.
   Object-Oriented Analysis and Design (OOAD) is a software engineering methodology that involves using object-oriented concepts to design and implement software systems.

4. Define Unified Process (UP).
   The Unified Process (UP) is a software development framework used for object modeling

5. State Class Diagram.
   A state diagram is used to represent the condition of the system or part of the system at finite instances of time.

6. Compare Aggregation and Composition.
   Composition is a way to wrap simple objects or data types into a single unit.

7. What is meant by Deployment diagram?
   A deployment diagram shows components and artifacts in relation to where they are used in the deployed system

8. Define Domain Model.
   A domain model is a system of abstractions that describes selected aspects of a sphere of knowledge, influence or activity.

9. List of three perspectives to apply UML.
   UML as programming language Perspectives-Conceptual perspective, Specification (software) perspective, Implementation (Software) perspective.

10. Mention the key requirement artifacts.
    A requirement describes a condition or capability to which a system must conform.

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PART B

11. a) What is Elaboration? Explain why elaboration is complex?

Elaboration is the initial series of iterations during which the team does serious investigation, implements (programs and tests) the core architecture, clarifies most requirements, and tackles the high-risk issues.

Points to be retrieved reason behind the complex of elaboration.

11. b) Explain the benefits and concepts of use case and use case model and analyze the relating use cases have in ATM system

Automated Teller Machine (ATM) also known as ABM (Automated Banking Machine) is a banking system. This banking system allows customers or users to have access to financial transactions. These transactions can be done in public space without any need for a clerk, cashier, or bank teller.

12. a)(i) What is UP?

A unified process (UP) is a software development process that uses the UML language to represent models of the software system to be developed. It is iterative, architecture centric, use case driven and risk confronting.

12 a) (ii) Explain briefly about the Four Major phases of Unified Process?

Inception.

Elaboration (milestone)

Construction (release)

Transition (final production release)

12. b) Explain with an example relationship between sequence diagram and use cases.

Benefits of system sequence diagrams

SSDs are ideal for demonstrating when and how tasks are completed in a system, especially as those tasks relate to use cases. Here are a few specific examples of when to use SSDs:

- In a step-wise fashion, modeling operations of the system in response to events.
- Building a blueprint for the main success scenario of a given use case, then creating alternative paths.
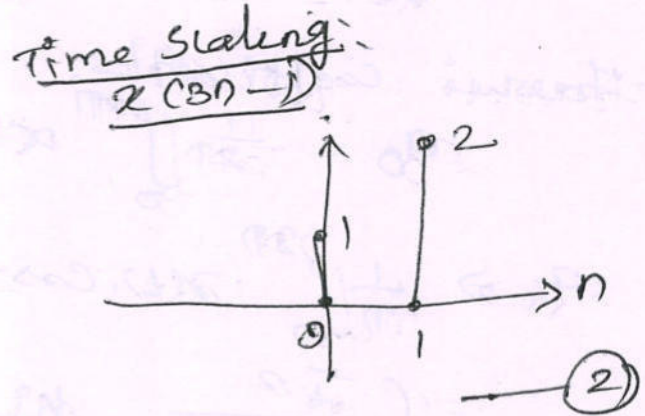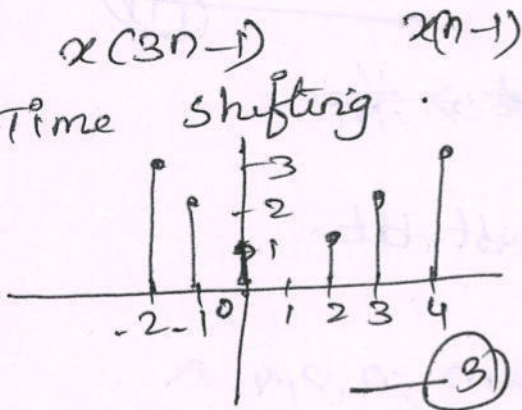- Identifying major system events and operations in order to come up with realistic estimates of resources needed.

PART C

13. a) List the Various UML diagrams and explain the purpose of each diagram.

- Structural Diagrams
- Behavioral Diagrams

Structural Diagrams

The structural diagrams represent the static aspect of the system. These static aspects represent those parts of a diagram, which forms the main structure and are therefore stable.

- Class diagram
- Object diagram
- Component diagram
- Deployment diagram

UML has the following five types of behavioral diagrams –

- Use case diagram
- Sequence diagram
- Collaboration diagram
- State chart diagram

Total width of pavement at curve = 7.5m

$$B = W + W_e = 7.5m$$

$$E = eB = 0.07 \times 7.5 = 0.525$$

$$N = 150$$

$$L_S = \frac{EN}{2} = \frac{0.525}{2} \times 150 \quad \text{—} \quad ③$$

$$= 39.375m.$$

minimum value of $L_S = 48.6m$

$$\boxed{S = 0.5208m} \quad \text{—} \quad ②$$

10.b) i) Stopping sight distance

$$SSD = Vt + \frac{V^2}{2gf}$$

$$SSD = 0.278Vt + \frac{V^2}{254f} \quad \text{if V is given in temp}$$

V — Design speed of vehicle

$$\text{—} \quad ③$$

$$= 103.77m.$$

ii) SSD for two-way traffic with single lane road.

$$\text{—} \quad ②$$

$$= 207.54m.$$

iii) SSD for an ascending gradient:

$$SSD = 0.278Vt + \left[\frac{V^2}{254(f + 0.01n)} \right]$$

Length of slope of the road = 2%.

$$n - \text{Slope of the road} = 2\%. \quad \text{—} \quad ③$$

$$= 100.79m.$$

iv) SSD for breaking efficiency

$$f' = 0.35 \times \frac{75}{100}$$

$$f' = 0.2625$$

SSD for two way two lane road

$$= 122.14m. \quad \text{—} \quad ②$$

9b) Alignment

    1. Horizontal alignment

    2. Vertical alignment   — ③

1. Ideal alignment

    Shortness

    easy

    Safety

    Economics   — ⑤

        It should be provided with easy gradient

        It should have easy visibility & directness.

        It should permit the arrangement for

future expansion   — ⑤

Part - C

10) a) Rate of change of centrifugal acceleration $\Big\}$ $= \dfrac{80}{75+v}$

$$C = \frac{80}{75+60} = 0.592 \, m/s^2$$

Length of transition curve is $= \dfrac{0.0215 \, V^3}{CR}$

$$\circlearrowright = 40.74 \, m.$$

$$e = \frac{0.75 \, v^2}{gR} = 0.08 \quad — ③$$

checking of safety against skidding

$$e + f = \frac{v^2}{gR}$$

$$f = 0.0717 \quad\quad\quad — ②$$

India act, 1988

i) It promotes and encourages the science & practice of building & maintenance of roads.

ii) It provides a channel for the expression of collective opinion of its members regarding the roads.

phase I : It was approved by Cabinet Commitee

phase -II : It was approved by CCEA

phase -III : The government in 2005 & 2007 has approved phase III

phase -IV : It includes widening of 2000 km highway.

phase -V : CCEA has approved 2006. — ⑧

CRRI

a national laboratory established in 1950, a constituent of council of Scientific & Industrial research, New Delhi is engaged in carrying out research and development projects on design construction & maintenance of roads & runways. traffic & transportation planning of big & medium cities.
— ⑤

L_1 = Length of NH in km

L_2 - L_1 + Length of SH in km

L_3 - L_2 + Length of MDR in km

L_4 - L_3 + Length of ODR in km.

8b) In the year 1934, December, on the recommendat-ons of Indian road development committee formed a technical, semi-official body of highway Engineers called Indian road congress, for the development of road in india. As the activities of the IRC expanded, It was formally registered as a society in 1937, under the societies registration Act of 1860.

Objectives of IRC:

1. IRC promotes and encourages the science and practice of building & maintenance of roads

2. It provides a channel for the expression of collective opinion of its members. —⑧

9a) the National highway is an autonomous agency of india, responsible for the network of over 1,001,000 km of National highway in india. the National highway of india was constituted by an act of parliment, the National highway authority of

—⑤

—⑧

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6. * they were built straight without any gradient

* the soft soil from the top was removed till the hard stratum was reached. —②

7. the central government appointed the National transport policy committee in the year 1978, to prepare a comprehensive national transport policy for the country for the next decade. —②

Part-B

8a) IRC Initiated second twenty year plan in 1959 at the meeting of the chief Engineers at Bombay and forwarded to central government. the second twenty year plan was also known as Bombay road plan

various objectives of the Bombay road plan
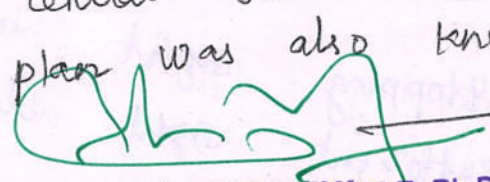
1. providing good communication to the rural areas is essential to check increasing urbanization

According to this plan, the road lengths of various highway are calculated as below ☐ ④

$$L_1 = \frac{A}{64} + \frac{B}{80} + \frac{C}{96} + 32K + 8M + D$$

$$L_2 = \frac{A}{20} + \frac{B}{24} + \frac{C}{32} + 48K + 24M + 11.2N + 1.6P + D.$$

$$L_3 = \frac{A}{8} + \frac{B}{16} + \frac{C}{24} + 48K + 24M + 11.2N + 9.6P +$$

$$6.4Q + 2.4R + D.$$

☐ ⑤

1)
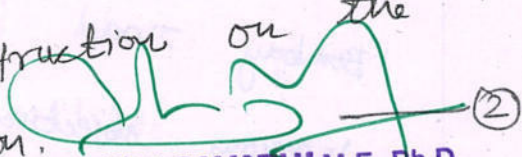
S.NO	considering factor	Telford's method	Macadam's method.
1.	Subgrade Slope	Horizontal	1 in 36.
2.	Foundation Stones	Stones of large size varying from 220mm at centre to 170mm at edge	Broken Stones of uniform 50mm size for bottom layer of 100m thickness. ——②

2) Camber is defined as the slope of the road with line joining the centre of the road surface and the edge of the road is called Crown. central rise point of the road ——②

3. Stopping sight distance is defined as the sufficient sight distance required for a driver travelling at the design speed to stop the vehicle, in case of any obstruction on the road ahead without collision. ——②
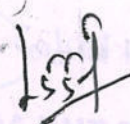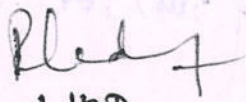
4.
1. Morth formulates & regulates for road transport
2. It increases the mobility & efficiency of the road transport ——②

5. Alignment of the highway is defined as the process of fixing the position of centre line of the highway on the ground.
1. Horizontal alignment
2. Vertical alignment. ——②

Cost for Borrow pit A = Rs. 2,63,891/-

Borrow pit -B, $V_S = \dfrac{V_2}{1+e_2}$ $\Rightarrow$ $V_2 = 1000.008 \times 10^3 \, m^3$.

⑤ Cost for Borrow pit B = Rs. 2,30,002/-

④ Borrow pit -C: $V_S = \dfrac{V_3}{1+e_3}$

$V_3 = 1555.56 \times 10^3 \, m^3$.

Cost for Borrow pit C = Rs. 2,80,002/-.

③ The most economical Borrow pit is 'B' having volume of 1000.008 $\times 10^3$ m^3 having cost of Rs. 2,30,002/-.

Staff Incharge

HOD
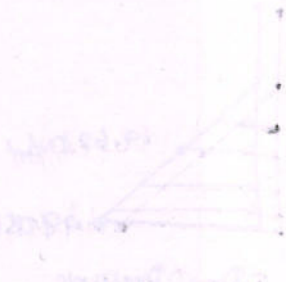
1. Structural water: chemically combined in crystal structure of soil - cannot be removed by oven drying $105° - 110°C$ - Structural water and Parcel of soil grain.

2. Adsorbed water: Parts of water freely adsorb from atmosphere by physical forces of attraction - held by the force of adhesion.

3. Capillary water: Soil water located interstices - void of soil mass - interstices of soil due to capillary force - acting with in the voids.

b) i) For Sand layer (above water table):
$$\gamma_b = \frac{G_s \gamma_w (1+\omega)}{1+e} = 17.73 \text{ kN/m}^3.$$

ii) For Sand layer (below water table):
$$\gamma_{sat} = \frac{G_s \gamma_w (1+\omega)}{1+e} = 19.93 \text{ kN/m}^3.$$

iii) For Clay layer
$$\gamma_{sat} = \frac{G_s \gamma_w (1+\omega)}{1+e} = 17.34 \text{ kN/m}^3.$$

(5)

At top of water table B-B.
Total Stress $\sigma_B = 53.19 \text{ kN/m}^2$, Pore Stress u_B, Effective Stress $= 33.19$

At top of clay C-C
Total Stress $\sigma_C = 93.05 \text{ kN/m}^2$, Pore Stress $u_C = 19.62 \text{ kN/m}^2$, Effective Stress $\sigma_C' = 73.43 k$

At bottom of clay D-D
Total Stress $\sigma_D = 145.07 \text{ kN/m}^2$, Pore Pressure $u_D = 49.05 \text{ kN/m}^2$, Effective Stress $\sigma_C' = 96.02 \text{ kN/m}^2$

(4)

(4)

Total Stress — A, B (53.19 kN/m²), C (93.05 kN/m²), D (145.07 kN/m²)

Pore Pressure — 19.62 kN/m², 49.05 kN/m²

$\sigma_B' = 53.19 \text{ kN/m}^2$, $\sigma_C' = 73.43 k$, $\sigma_D' = 96.02 \text{ kN/m}^2$
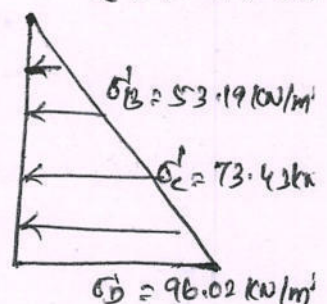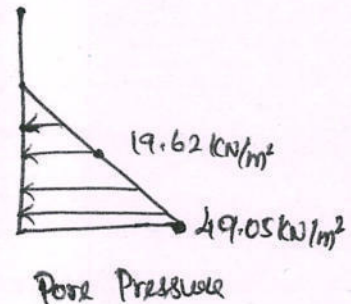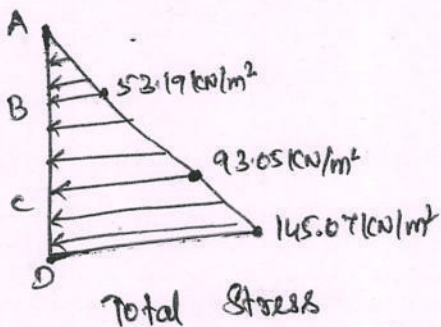
16. a)
$$V_S = \frac{V_f}{1+e_f} = 555.56 \times 10^3 \text{ m}^3.$$

Borrow Pit - A $V_S = \frac{V_1}{1+e_1} \Rightarrow V_1 = 1055.56 \times 10^3 \text{ m}^3.$ } → (3)

14. a) The capillary rise through the soil pores is given by

$$h_c = \frac{4\sigma \cos\theta}{\gamma_w d}$$ ⟹ ①

Surface Tension $\sigma = 75 \times 10^{8} \ kN/cm = 75 \times 10^{-6} \ kN/m \longrightarrow$ ②

Size of pore, $d = 4 \times 10^{-6} m$ } ⟹ ③
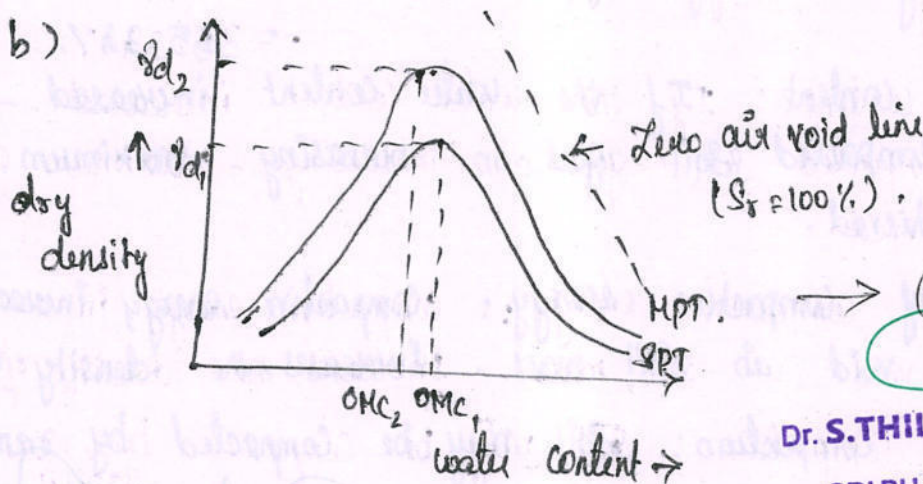
$$h_c = 7.645 \ m.$$

b)

About 3kg of dried soil mass passing through 4.75mm Sieve - 4% of coarse grained soil - 10% for fine grained soil. moist soil is placed in mould three layers - giving 25 blows - compactive effort (or) the energy transmitted - about 605 km per 1000 cm³ of soil.

Heavier compaction needed for airport pavement construction - filled in five layers - compacted with 25 blows - compactive energy delivered - 2726 N-m per 1000 cm³ - 4.5 times that of Standard proctor test. IS 2720 (part VII) - 1983; for light compaction - IS 2720 (part VIII) - 1983 for high compaction.

15. a) i) Free water (or) Gravitational water; free to move through soil mass influence of gravity - free water as saturated.
ii) Held water: part of water held in soil pores - force existing within the pores.

void ratio $e = \dfrac{n}{1-n}$; $e_f = 0.429$. $\Big\}\rightarrow$ ④

At borrow pit, $V_S = \dfrac{V_p}{1+e_p} = 2225.05 \, m^3$.

$$V_S = \dfrac{V_f}{1+e_f} \Rightarrow V_f = 3179.6 \, m^3.$$

Degree of Saturation at borrow pit $e_f \times S_r(f) = \omega_f \times G_S$ $\Big\}$

$S_r(f) = 85.83\%$. $\rightarrow$ ✗

∴ Degree of Saturation at fill $S_r(p) = 50.49\%$.

∴ Change in degree of Saturation $= S_r(f) - S_r(p)$ $\Big\} \rightarrow$ ③

$= 35.32\%$.

13. a) i) water content: If the water content increased - density of compacted Soil goes on increasing - maximum dry density achieved.

⑦ ← ii) Amount of compactive energy: Compactive energy increased - reduction of void in Soil mass - Increases the density of Soil mass

iii) Type of compaction: Soil may be compacted by ramming - rolling & Vibrating.
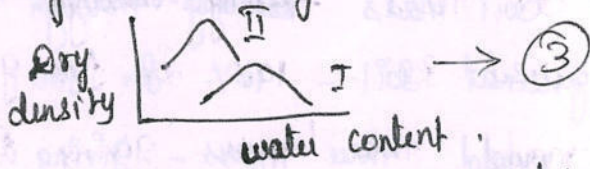
Dry density vs water content graph (curves II and I) $\rightarrow$ ③

③ ← iv) Type of Soil: variation in effect of compaction - higher density at lower OMC - than fine grained Soil.

b) i) Gravel - More than half the coarse fraction (75μ) - larger than 4.75mm Sieve.

⑤ ii) Sand: More than half the coarse fraction - smaller than 4.75m

Fine grained Soil:

④ ← i) Silt & clay of Low compressibility - LL < 35.

ii) Silt & clay of Medium/High compressibility - 35 < LL > 50

iii) Silt & clay of very High compressibility - LL > 50.

GW - $C_u > 4$, C_c between 1 & 3. $\Big\}$

GP - poorly graded gravel.

SW - $C_u > 6$, C_c between 1 & 3. $\rightarrow$ ②

SP - poorly graded Sand.

(11) a) i) % Passing 75μ Sieve is 10% (retained more than 50%) - coarse grained Soil.

ii) % Passing $4.75mm$ Sieve is 70% (less than 50%) retained. Sand.

iii) $C_u > 8$ - Well graded Sand, C_c - 1 to 3 . $I_p = 4\%$. Sand with fine (SM)

b) Weight of water $W_W = 2.67 kN$.

⑤ water content $\omega = \dfrac{W_W}{W_d} = 17.71\%$.

Dry unit weight $\gamma_d = \dfrac{W_d}{V} = 15.08 kN/m^3$.

$$\gamma_d = \dfrac{\gamma_w G_s}{1+e}.$$

$$e = 0.756. \rightarrow ③$$

$$e \times S_r = \omega \times G.$$

Degree of Saturation $S_r = 63.22\% \rightarrow ③$

Porosity $n = \dfrac{e}{1+e} = 43.1\% \rightarrow ②$.

12 a). i) Liquid Limit : Minimum water content at which Part of Soil - Cut by a groove of Standard dimension - flow together for a distance of 10 mm - 25 blows.

④ ii) Plastic Limit : Minimum water content at which Soil - begin to Crumble - thread of 3mm - in diameter.

③ iii) Shrinkage Limit : Maximum water content - reduction is water content - decrease in the volume of Soil mass.

iv) Plasticity Index (I_p) : $I_p = \omega_L - \omega_P$.

③ v) Liquidity Index : Difference between natural water content and Plastic limit to the Plastic Index. $I_L = \dfrac{\omega_n - PL}{I_P}$.

③ vi) Consistency Index I_c : ratio of Liquid limit minus natural water content to plastic Index $I_c = \dfrac{\omega_L - \omega_n}{\omega_L - \omega_P}$.

$$I_L + I_c = 1.$$

b) $\gamma_b = \dfrac{\gamma_s}{1 + e_p}$.

void ratio at pit $e_p = 0.543$

Sri Bharathi Engineering College for Women
B.E - CIVIL ENGINEERING
CYCLE TEST - I (MARCH - 2023)
FOURTH SEMESTER
22-23
CE3404 - SOIL MECHANICS.

① The ratio of volume of water to the volume of voids

Degree of Saturation $= \dfrac{V_w}{V_v} \times 100$.

② The ratio of volume of voids to the volume of given soil mass

Porosity $= \dfrac{V_v}{V}$.

③

Fully dry Soil   Fully Saturated Soil.
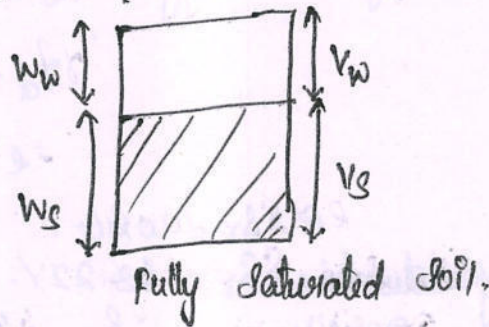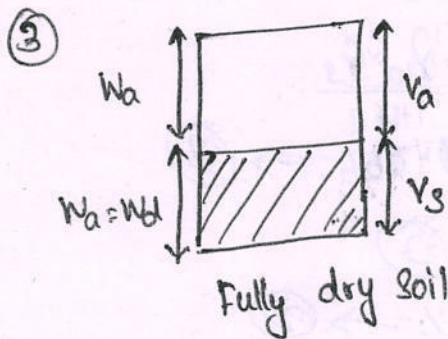
④ Residual Soil: If the soil remain at the place due to weathering of Rocks.

Transported Soil: Soil are found far away from their place of formati

⑤ i) Geological classification (or) classification by origin.
ii) Textural classification   iii) Particle Size classification.

⑥ Range of water content present between Liquid Limit and Plastic Lim

$I_p = w_L - w_p$, $I_f = \dfrac{w_1 - w_2}{\log_{10}\left(\dfrac{n_2}{n_1}\right)}$.

⑦ i) Dropping type   ii) Pneumatic type

⑧ The rise of water in the fine pores of soil due to Surfa

Tension $h_c = \dfrac{4\sigma\cos\omega}{\rho_w g d}$.

⑨ Total load acting per unit area - Pressure transmitted through the pore fluid in the soil mass.

⑩ i) Free water   ii) Gravitational water   iii) Structural water;

(1a) (b) $x(n)$

Ans:
(i) $x(2n)$

③

$x(3n-1)$ $x(n-1)$

i) Time shifting

Time Scaling:
$x(3n-1)$

③

②

$y(1-n)$:
$y(n)$

$y(-n)$ — reflection then $y(-n)$
$y(-n)$

②

$y(1-n)$
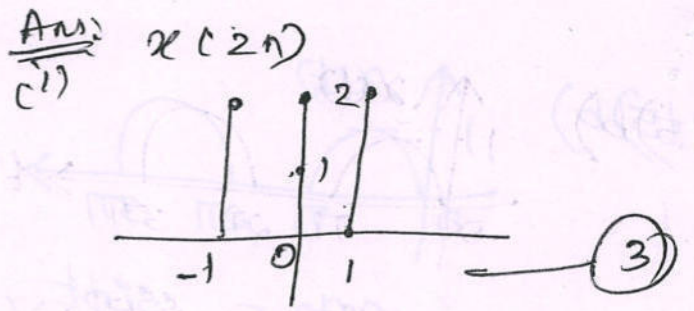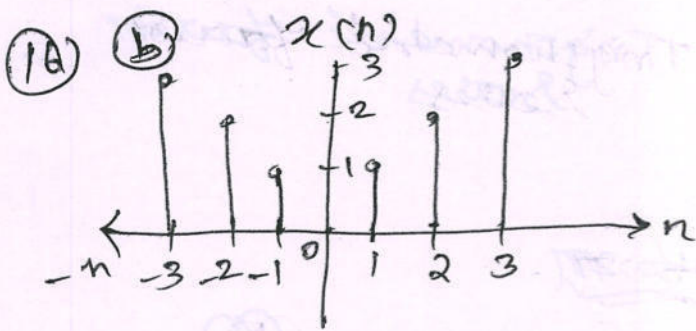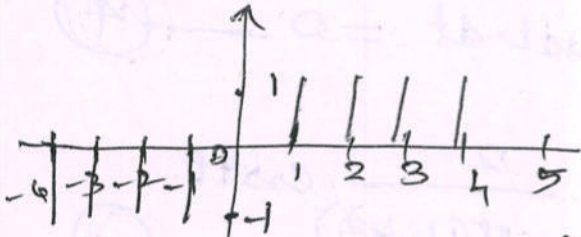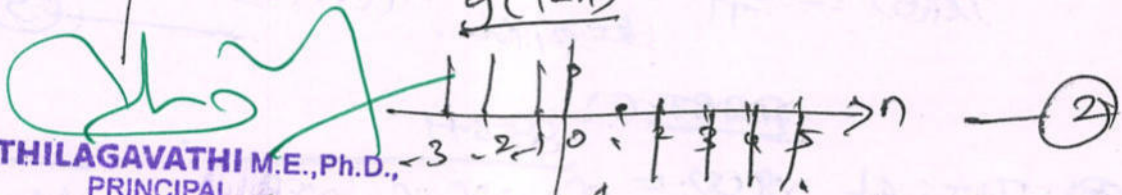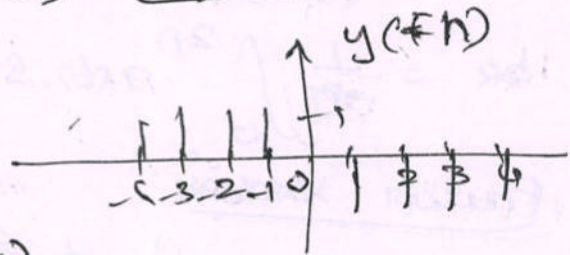
Shift right = 2   toward
left by 2 units

$x(2n)$

$y(n-2)$

$y(n-4)$

$x(n+2)+y(n-2)$

$x(2n)+y(n-4)$

③

②

Regd
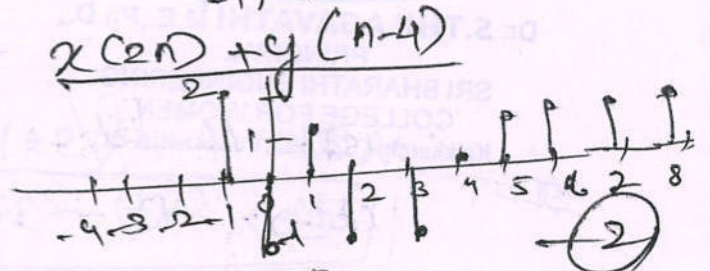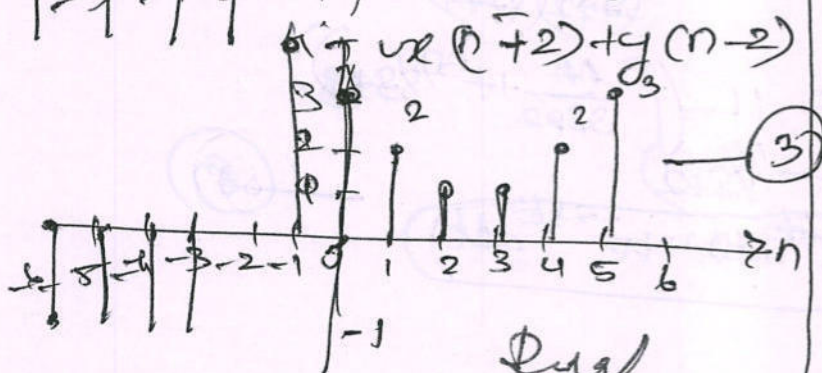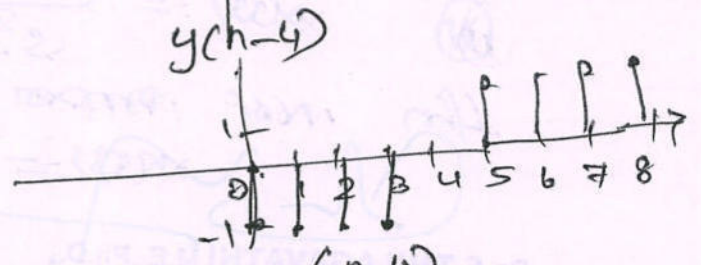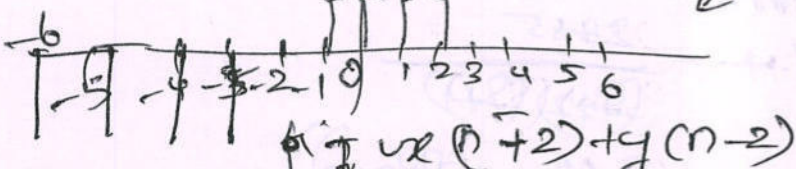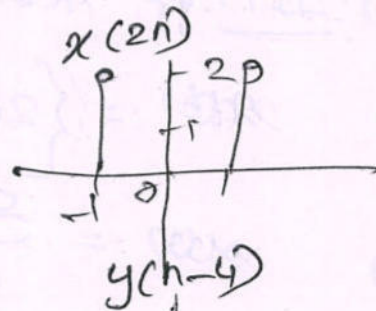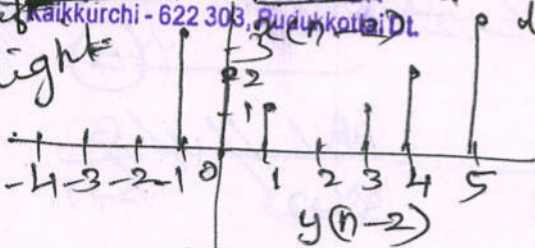
Regd
H.OD /ECE

15)b)
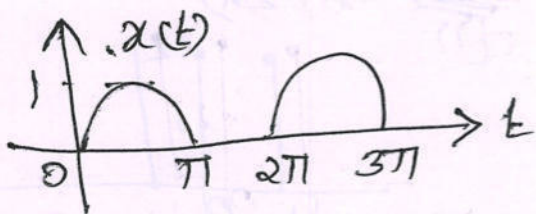
Trigonometric fourier Series

$x(t) = \sin t., \ 0 \text{ to } 2\pi$ ──(4)

Fourier coefficients:

$a_0 = \frac{1}{2\pi} \int_0^{2\pi} x(t). dt \Rightarrow \frac{1}{\pi}$

$a_k \Rightarrow \frac{1}{\pi} \int_0^{2\pi} x(t). \cos 2\pi \omega_0 t. dt.$

$= \begin{cases} \dfrac{2}{\pi.(k^2-1)}, & \text{k is even, } 0,2,4... \\ \\ 0 & \text{k is odd } , 1,3,5,7. \end{cases}$

$b_k = \frac{1}{\pi}. \int_0^{2\pi} a(t). \sin k\omega_0 t. dt = 0$ ──(4)

Fourier series:

$x(t) = \frac{1}{\pi} + \sum_{k=2,4,6..}^{\alpha} \frac{2}{\pi(1-k^2)} \cos k t.$ ──(5)

PART: C)

(16) (a) ILT: of $X(s) = \dfrac{8s+1}{(s+1)(s-2)^2}$ ──(4)

$x(t) = \begin{cases} 2e^{-t} + 3(t^2-2t-2)e^{-2t} \end{cases} u(t)$ ──(7)

(ii) $X(s) = \dfrac{s^2+s-3}{s^2+3s+2} = \dfrac{A}{(s+2)} + \dfrac{B}{s+1}$

fn Not proper form

$X(s) = 1 + \dfrac{-2s+5}{(s+2)(s+1)}$

$= 1 - \left(\dfrac{A}{s+2} + B/s+1 \right)$

$3/s+1 - 1/s+2$ ──(3)

ILT: $x(t) \Rightarrow \delta(t) - 3e^{-t} u(t) + e^{-2t}. dt$

(15) (a)
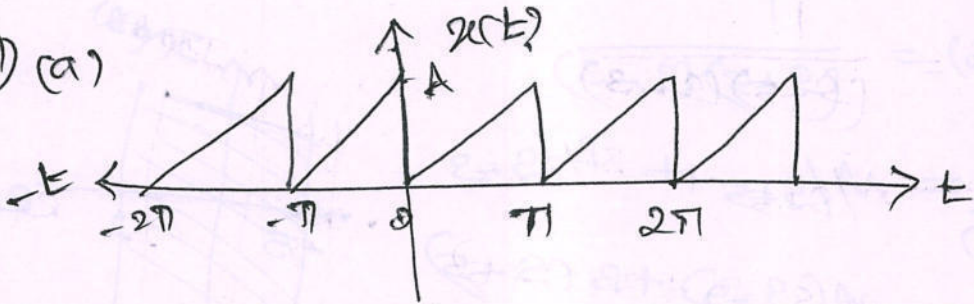
Fourier Series.

$x(t) = A$, for $0 \leq t \leq \pi$ for period $T = \pi$

$$X(k) = \frac{1}{T} \int_{\langle T \rangle} x(t) e^{-jw_0 kt} dt = \frac{1}{\pi} \int_0^\pi t e^{-jkw_0 t} dt$$

(A)

$$\int x e^{ax} \Rightarrow e^{ax} \left[\frac{x}{a} - \frac{1}{a^2} \right]$$

$$X(k) \Rightarrow \frac{A}{\pi} \left(e^{-jkw_0 t} \left[\frac{t}{jkw_0 t} - \frac{1}{(-j \cdot kw_0)^2} \right]_0^\pi \right.$$

$$\Rightarrow \frac{A}{\pi} \left(e^{-jkw_0 \pi} \left[\frac{\pi}{jkw_0} - \frac{1}{-k^2w_0^2} \right] + \frac{A}{jkw_0} \right)$$

$w_0 = \frac{2\pi}{\pi}$

$$\Rightarrow \frac{1}{\pi} \left(e^{-jk2\pi} \cdot \left(\frac{-\pi}{jkw_0} \right) + \frac{1}{jk} \right)$$

$$= \frac{-1}{jkw_0} \Rightarrow j/kw_0 \quad k \neq 0$$

$k = 0$.

$$X(k) = \int_0^\pi t \, dt = \frac{\pi}{2}.$$

$$X(k) \Rightarrow \begin{cases} Aj/kw_0, & k \neq 0 \\ 1/2 & k = 0 \end{cases} \quad A = 1$$

(A)

Fourier Series:

$$x(t) = \sum_{k=-\alpha}^{\alpha} X(k) e^{jkw_0 t} = \frac{1}{2} + \sum_{k=-\alpha}^{\alpha} j/kw_0 \, e^{jkw_0}$$

(B)

(4) (a) $X(S) = \dfrac{1}{(S+5)(S-3)}$

$\dfrac{1}{(S+5)(S-3)} = A/S+5 + B/S-3$

$1 = A(S-3) + B(S+5)$

$S=3, \quad A = 1/8, \quad B = 1/8$
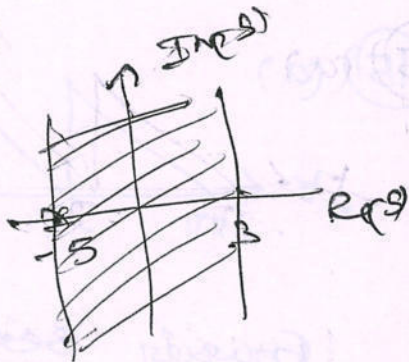
(i) $x(t) = -1/8 \, e^{3t} u(-t) - 1/8 e^{-5t} \cdot u(t) \quad \underline{\textcircled{8}}$

(ii)

$x(t) = 1/8 \, e^{3t} u(t) - 1/8 e^{-3t} \cdot u(t)$

(iii) Initial value of $X(S) = \dfrac{2S+3}{S^2+5-S+6}$

$x(0+) = 2 \quad \underline{\hspace{3cm}} \textcircled{5}$

final value $x(\infty) = 0$

(4) (b) (i) Five properties of Fourier transform

linearity $a\,x(t) + b\,y(t) \xleftrightarrow{FT} aX(\omega) + b\,Y(\omega)$

Shifting in time domain $x(t-t_0) \xleftrightarrow{FT} e^{-j\omega t_0} X(\omega)$

Frequency shift: $y(t) = e^{j\beta t} \cdot x(t) \xleftrightarrow{FT} X(\omega-\beta)$

Frequency differentiation: $-jt\,x(t) \xleftrightarrow{FT} \dfrac{d}{d\omega}(x(\omega))$ $\textcircled{10}$

Convolution $x(t) * y(t) \xleftrightarrow{FT} X(\omega) \cdot Y(\omega)$

(ii) $X(S) = \dfrac{(\beta+a)}{(S+a)^2 + \omega^2}$, ROC

with explanation $\textcircled{3}$

(13) (b) $x(2 - t/2)$

$x(t)$

1.5
1

t
1 2 3 4

$x_e(t)$

1.5
1

-4 -3 -2 -1 0   →t

$$x_e(t) = \frac{x(t) + x(-t)}{2}$$

1.5
0.75
0.5

-4 -3 -2 -1   1 2 3 4   →t

$$x_o(t) = \frac{x(t) - x(-t)}{2}$$

0.75
0.5

-4 -3 -2 0 1 2 3   →t
-0.5
-0.75

(9)

$x(2 - t/2)$

$x(t/2)$

1.5

0 1 2 3 4 5 6 7

$x(2 - t/2)$

0 1 2 3 4 5 6 7 8 9 10

(4)
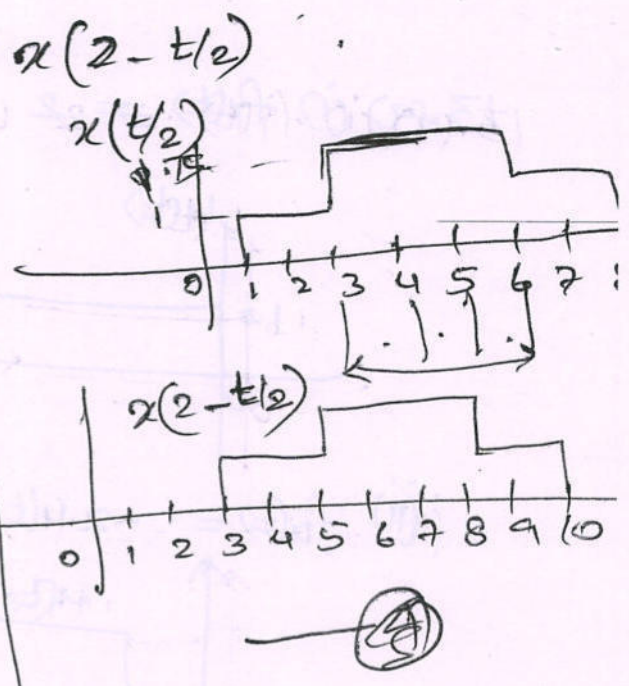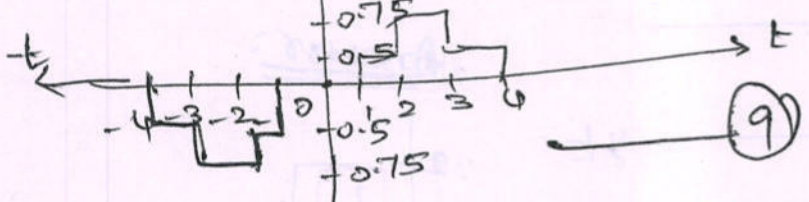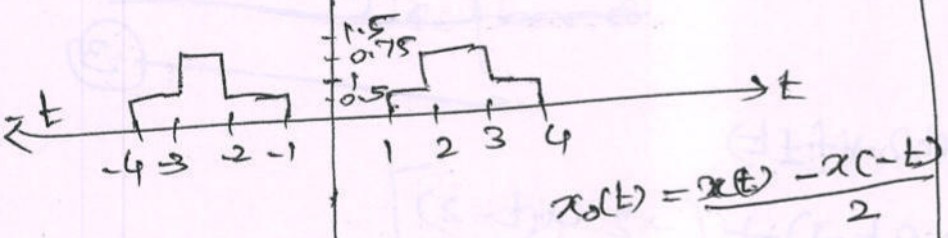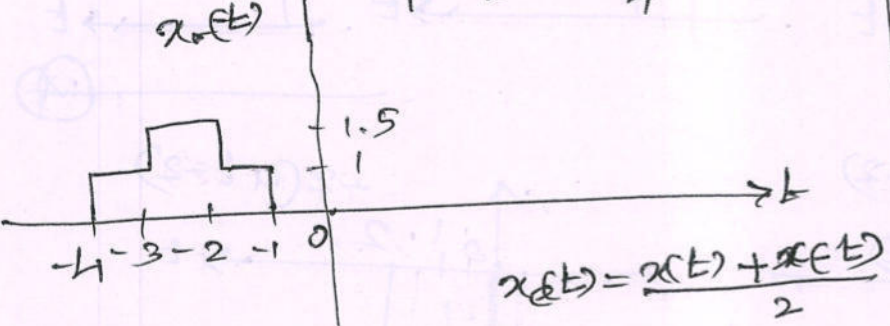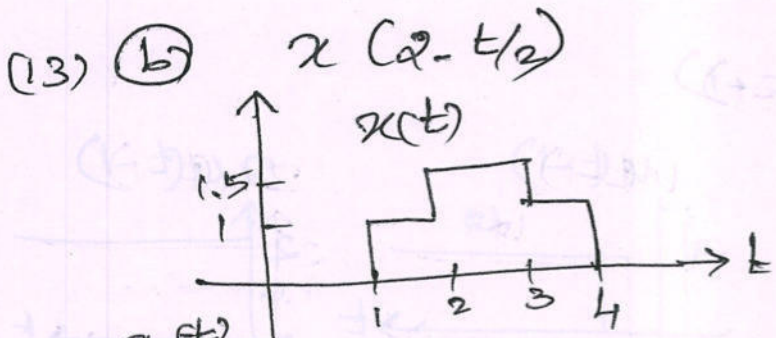
(iii) Energy signal,

$$0 < E < \alpha$$

$$E = \int_{-\alpha}^{\alpha} |x(t)|^2 \, dt$$

$$= \sum_{n=-\alpha}^{\alpha} |x(n)|^2$$

non periodic
Most of the signals are
~~power~~ signals
Energy
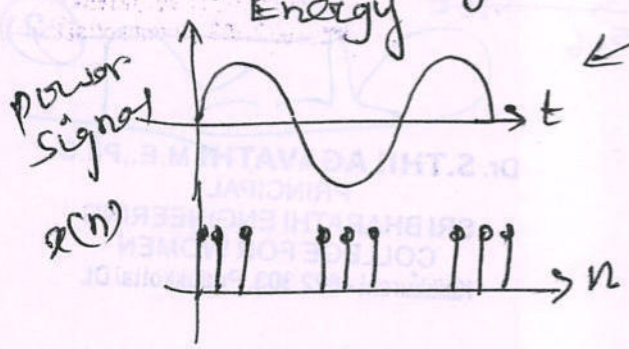
power signal

$$0 < P < \alpha$$

$$P = \lim_{T \to \alpha} \frac{1}{T} \int_{-T/2}^{T/2} x^2(t) \, dt$$

$$= \lim_{N \to \alpha} \frac{1}{2N+1} \sum_{n=-N}^{N} |x(n)|^2$$

Most of the signals are
power signals

$x(t)$

→t

$x(n)$

→n

(4)

power signal

$x(n)$

→n
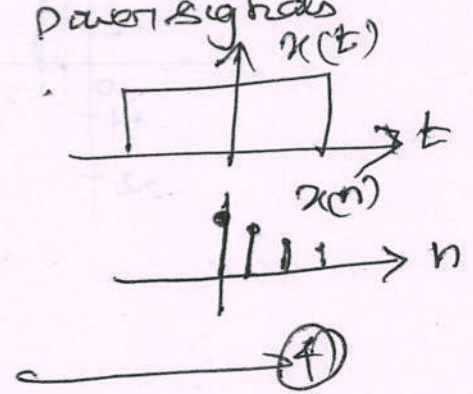
13.(a) (i) $f_1(t) = 2\,u(t-1)$
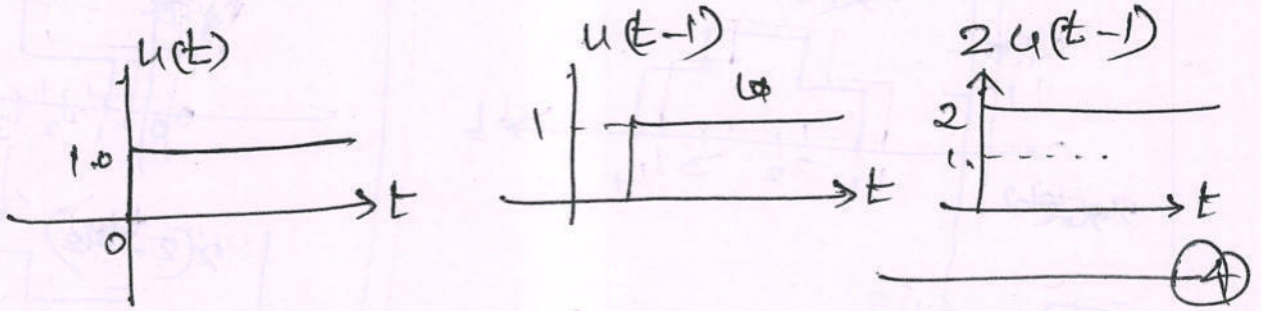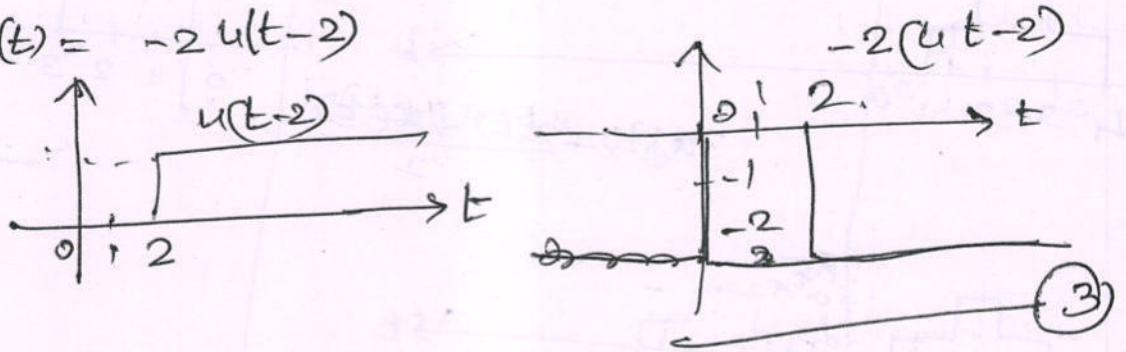
(ii) $f_2(t) = -2\,u(t-2)$

(iii) $f(t) = f_1(t) + f_2(t)$

$$= 2\,u(t-1) + \left[-2\,u(t-2)\right]$$
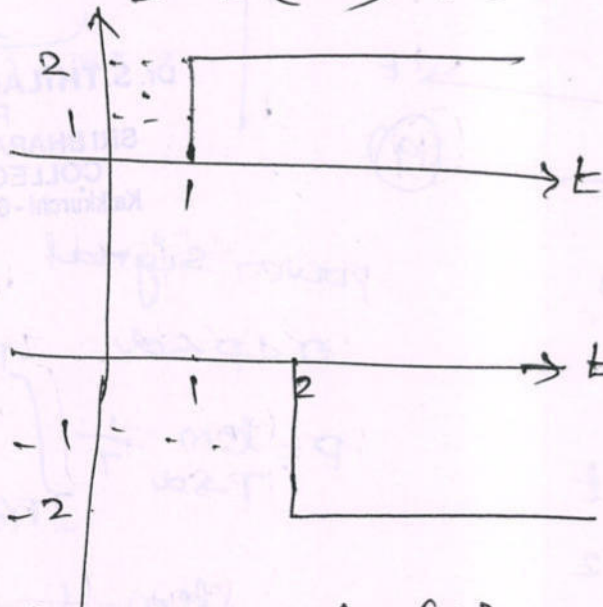
Answer:
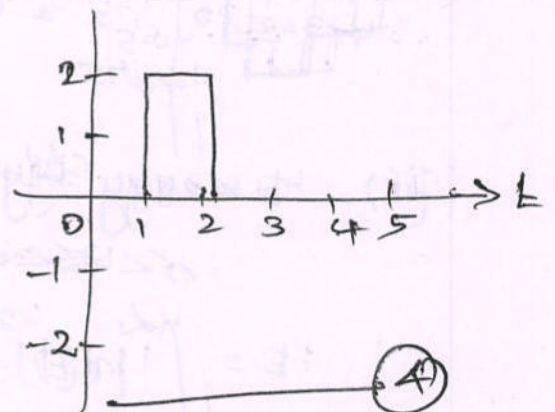
(iv) $f(t) = f_1(t) - f_2(t)$
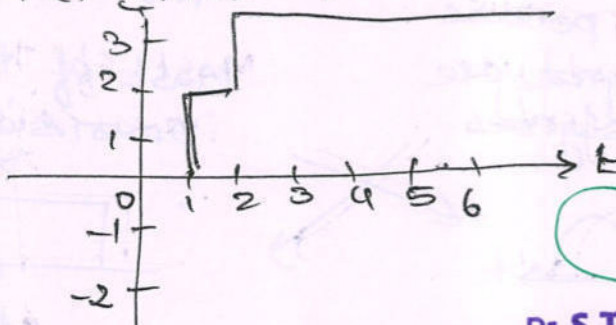
Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
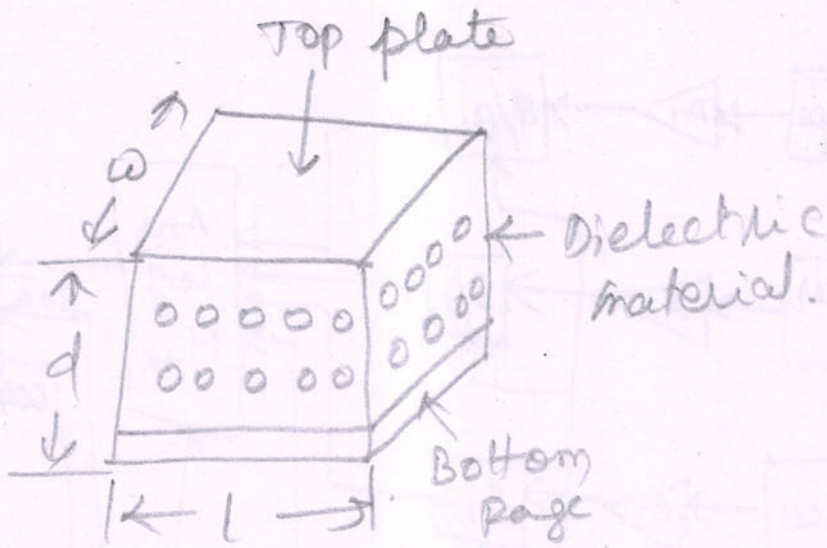COLLEGE FOR WOMEN
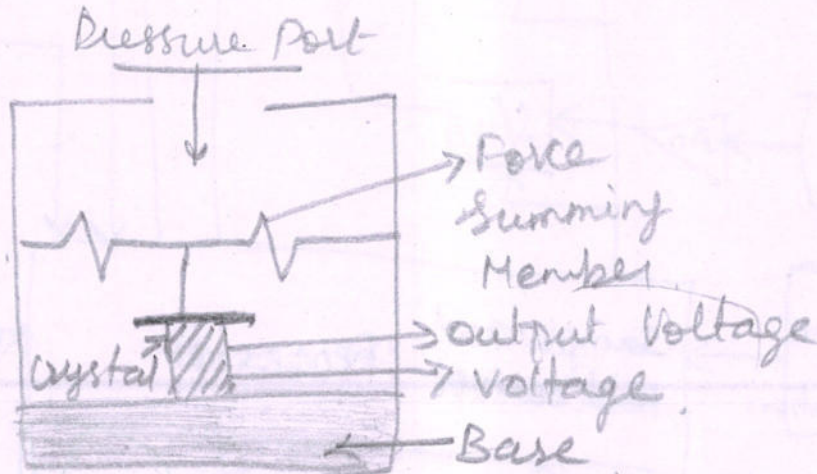Kaikkurchi - 622 303, Pudukkotiai Dt.

(ii) (a) $x(t) = e^{-j2t}$

$x(t) = e^{-j2t} = \cos 2t - j\sin 2t.$

$\qquad = \cos 2\pi ft - j\sin 2\pi ft.$

$2\pi f \Rightarrow 2t$

$f = \frac{1}{\pi} \Rightarrow \frac{1}{T} \Rightarrow \boxed{T = \pi}$ — (5)

signal is periodic with period $T = \pi$.

(b) $x(n) = \sin\left(\frac{6\pi}{7} n + \right)$

$x(n) = \sin\left(2\pi fn + \theta\right)$

$2\pi fn \Rightarrow \frac{6\pi}{7} n$

$\boxed{f = 3/7}$ It is the ratio of

two integers. It is not periodic.

fundamental period $\boxed{T = 7}$ — (4)

(12) (a) $\xrightarrow{ILT} X(s) \Rightarrow \dfrac{2s+3}{s^2+5s+6}$

$X(s) = \dfrac{2s+3}{s^2+5s+6} = \dfrac{A}{(s+3)} + \dfrac{B}{(s+2)}$

$2s+3 = A(s+2) + B(s+3)$

sub $s = -2$.

$-4+3 \Rightarrow \boxed{B = -1}$

$s = -3 \Rightarrow \qquad -6+3 = A(-3+2)$

$\qquad\qquad\qquad -3 = -A$

$\qquad\qquad\qquad \boxed{A = 3}$

$X(s) = 3/s+3 + -1/s+2$

Take ILT: $\boxed{x(t) = 3e^{-3t}u(t) - e^{-2t}u(t)}$

— (6)

(b) (ii) $X(S) = \dfrac{3S+4}{(S+1)(S+2)^2}$.

$X(S) = \dfrac{k_0}{S+1} + \dfrac{k_1}{S+2} + \dfrac{k_2}{(S+2)^2}$.

$k_0 \Rightarrow 1, \quad k_2 = +2, \quad k_3 = +1$

$X(S) = \dfrac{1}{S+1} - \dfrac{1}{S+2} + \dfrac{2}{(S+2)^2}$ ——— ⑦

$\underline{\text{Take I.L.T.}}$

$x(t) = e^{-t}u(t) - e^{-2t}u(t) + 2t e^{-2t}\cdot u(t)$

$k_2 = (S+2)^2 \dfrac{3S+4}{(S+1)(S+2)^2}$

$\boxed{k_2 \Rightarrow 2}$

$k_1 \Rightarrow \dfrac{(S+1)3 + (S+4)1}{(S+1)^2} \quad 6S+7$

$\Rightarrow \dfrac{3S+3 - 3S+4}{(S+1)^2}$

$\dfrac{6S+7}{(S+1)^2}$

$\Rightarrow -\dfrac{1}{8}\%\, 6n$

$= -1^{\%}$

(12) (b) Seven properties of Laplace transform

$\underline{\text{Linearity:-}}$

$L[a_1 x_1(t) + a_2 x_2(t)] = a_1 X_1(S) + b X_2(S)$,

$\qquad\qquad\qquad\qquad$ ROC:- $R_1 \cap R_2$

$\qquad\qquad$ proof ——— ②

$\underline{\text{Time shifting:}}$

$L(x(t - t_0)) = e^{-St_0} X(S) \cdot$ ROC: R ②

$\qquad\qquad\qquad\qquad$ proof

$\underline{\text{Shifting}}$ s-domain:

$L[e^{S_0 t} x(t)] = X(S - S_0) \cdot$ ROC: $R + Re\{S_0\}$

$\qquad\qquad$ with proof ——— ②

$\underline{\text{Time Scaling:}}$

$x(at) \xleftrightarrow{L} \dfrac{1}{|a|} \cdot X(S/a) \cdot$ ROC: R/a

$\qquad\qquad\qquad\qquad\qquad$ ②

$\underline{\text{Convolution}}$ in Time domain:

$x_1(t) * x_2(t) \xleftrightarrow{L} X_1(S) \cdot X_2(S)$; ROC: $R_1 \cap R_2$

$\qquad\qquad\qquad\qquad\qquad$ ②

(iii) $y(t) = x(t/2)$ — ⑤

The s/m is dynamic, o/p depends upon past input.
$$y(4) = x(2)$$

Non causal. s/m: $t = -4$,
$$y(-4) = x(-2).$$

Stability: $x(t)$ is bounded, $y(t)$ is bounded

Time variant: time factor is modified

linearity: It is linear.
output is direct function of input.

s/m is invertible.

⑤ $y(t) = \dfrac{x(t)}{Cos(100\pi t)}$ — ④

① static and causal,
linear s/m
shift variant.
Stable s/m

(II) ⑤ ① $x(t) = e^{-2t} \cdot u(t)$ — ④
It is non-periodic signal. It must be an energy signal.

$$Energy = \int_{-\infty}^{\infty} [x(t)]^2 \, dt = \int_{-\infty}^{\infty} \left[e^{-2t} \cdot u(t)\right]^2 dt$$

$$= \int_{0}^{\infty} e^{-4t} \cdot dt \, dt = \left[\dfrac{e^{-4t}}{-4}\right]_{0}^{\infty}$$

$$\boxed{E = \dfrac{1}{4}}$$

energy is finite and non-zero it is energy signal

⑦ Random Signal-

A signal which cannot be represented by any mathematical equation is called random signal. ———①

Ex: Noise generated in electronic component cables, transmission channels etc. ——①

⑧ find Laplace transform of $x(t) = e^{-at} u(t)$ ——①

$$X(s) = \frac{1}{s+a}, \quad RoC: s > a \quad ——①$$

⑨ Causal & Non causal systems:

Causal s/m: o/p of causal s/m depends on past and present inputs only

Non causal s/m: depends upon future input also. ——②
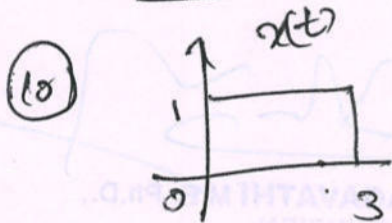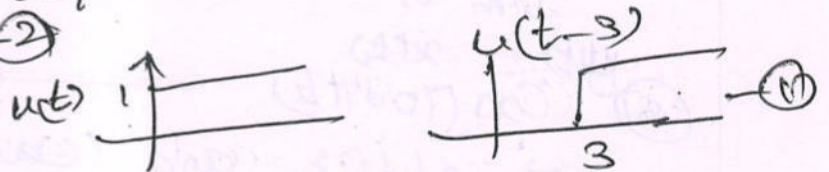
$u(t)$ $u(t-3)$ ——①

⑩

$$x(t) = u(t) - u(t-3) \quad ——②$$

PART-B:

$$x(t) - x(t) \quad ——④$$

⑪ (a) (i) $y(n) = x(t) - x(t)$

1) Two inputs are simply added. So it is linear

② output is function of present, and previous input. It is causal s/m

③ Time factor n is not altered. It is Time Invariant:

Stable: output is bounded as long as inputs are bounded.

(4) parseval's theorem:

$$E = \int_{-\alpha}^{\alpha} |x(t)|^2 \, dt \Rightarrow \int_{-\alpha}^{\alpha} |x(f)|^2 \, df$$

$$= \frac{1}{2\pi} \int_{-\alpha}^{\alpha} |x(\omega)|^2 \, d\omega \quad \text{——②}$$

(5) $\quad x(n) = \cos(n/8) \cos(\pi n/8) \quad \text{——①}$

$$\frac{1}{2}\left[\sin(a+b) + \sin(a-b)\right]$$

$$\Rightarrow \frac{1}{2}\left[\sin\left[n/8 + \pi n/8\right] + \sin\left[n/8 - \pi n/8\right]\right]$$

$$\Rightarrow \frac{1}{2}\left\{\sin\left(\frac{\pi n}{8} + n/8\right] + \left(\sin\left[\pi n/8 - n/8\right]\right.\right.$$

$$\omega_1 = 1/8, \quad \omega_2 = \pi/8. \qquad \left| f_1 = \frac{1}{16\pi}\right.$$

$$2\pi f_1 = 1/8, \quad 2\pi f_2 = \pi/8 \quad \left| f_2 = \frac{1}{16}\right.$$

$$\text{It is not rational} \qquad \qquad \frac{f_1}{f_2} \Rightarrow 1/4$$

$$\qquad \qquad \text{Not periodic signal} \quad \text{——③}$$

(6) FT of unit step signal:

$$Sgn(t) = 2u(t) - 1$$

$$u(t) = \frac{1}{2}\left[1 + Sgn(t)\right] \qquad \text{——①}$$

Take F.T of on both sides

$$F \cdot T\left[u(t)\right] = \frac{1}{2}\left[F \cdot T(1) + F \cdot T S(t)\right]$$

$$\Rightarrow \frac{1}{2}\left[2\pi \, \delta(\omega) + \frac{2}{j\omega}\right]$$

$$\therefore u(t) \xleftrightarrow{F.T.} \frac{1}{2}\left[2\pi \, \delta(\omega) + \frac{2}{j\omega}\right] \quad \text{——①}$$

Cyele Test-1. EC 3354_Signals and systems.

Answer key.

① $P \Rightarrow \lim_{T \to \alpha} \dfrac{1}{T} \int_{-T/2}^{T/2} |x(t)|^2 \, dt.$ ⟶ ⑪

$P \Rightarrow \lim_{T \to \alpha} \dfrac{1}{T_0} \int_{\sigma T/2}^{T_0/2} [2\cos t]^2 \, dt$

22-23

$\Rightarrow \lim_{T \to \alpha} \dfrac{1}{T_0} \times 4 \int_{-\sigma T/2}^{T_0/2} \dfrac{[1+\cos 2t]}{2} \, dt$

$= \lim_{T \to \alpha} \dfrac{4}{T_0} \left(\dfrac{1}{2}\right) [t]_{-T_0/2}^{T_0/2} + \left[\dfrac{\sin 2t}{2}\right]_{\sigma T_0}^{T_0/2}$

$\Rightarrow \lim_{T \to \alpha} \dfrac{2}{T_0} \left[\dfrac{T_0}{2} + \dfrac{T_0}{2} \right]$

$P_x \Rightarrow \lim_{T \to \alpha} \dfrac{2}{T_0} [T_0] \Rightarrow 2.$

power signal $\boxed{P_x = 2}$ ⟶ ⓞ

② Even and odd signal.
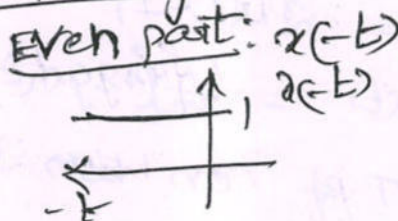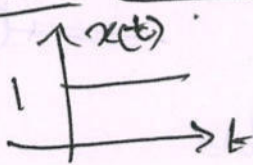
Even part: $x(-t)$ $x_e(t) \Rightarrow \dfrac{x(t)+x(-t)}{2}$
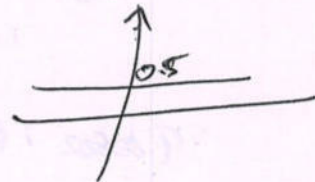
odd signal: $x_o(t)$

②

③ Dirichlet's Conditions

1) Single valued property
2) Finite discontinuites
③ finite peaks
④ Absolute integrability. $\int_{-\infty}^{\infty} |x(t)| < \alpha.$

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ANSWER KEY

QN	ANSWER	QN	ANSWER	QN	ANSWER	QN	ANSWER	QN	ANSWER
1	B	10	B	19	A	28	A	37	A
2	A	11	C	20	A	29	B	38	A
3	A	12	D	21	C	30	C	39	A
4	B	13	B	22	C	31	A	40	A
5	C	14	A	23	A	32	C	41	A
6	B	15	B	24	B	33	D	42	A
7	C	16	B	25	C	34	B	43	A
8	A	17	A	26	B	35	A	44	A
9	A	18	C	27	B	36	B	45	A

Course Faculty 1(3/2)

(Name /Sign / Date)

HoD 1(3/2)

(Name /Sign / Date)

HOD / ECE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
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Kaikkurchi - 622 303, Pudukkottai Dt.

15)a)

Top plate

← Dielectric material.

Bottom Page

Diagram = 5
Theory = 8

15)b)

Pressure Port

→ Force Summing Member
→ output voltage
→ Voltage
← Base

Crystal

Diagram = 4
Theory = 9

Part - C

16) a)
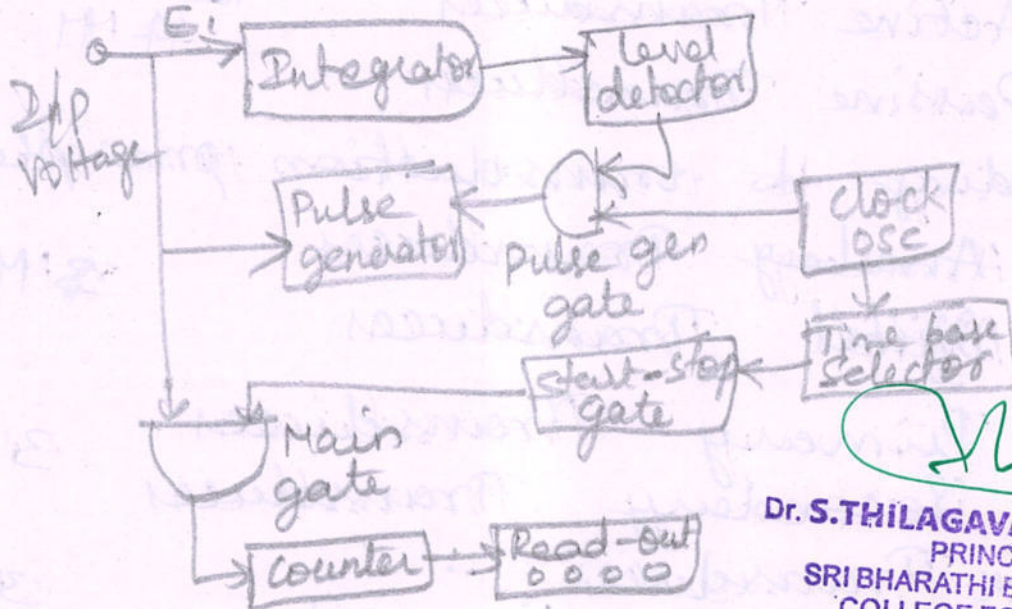
Ei

I/P Voltage

Integrator → Level detector

Pulse generator ← Pulse gen gate ← Clock OSC

Start-stop gate ← Time base Selector

Main gate

Counter → Read-Out
0 0 0 0

Diagram = 4
Theory = 11

16)b)

(i) Flash ADC (5M)
(ii) Successive Approximation ADC (5M)
(iii) Dual Slope ADC (5M)
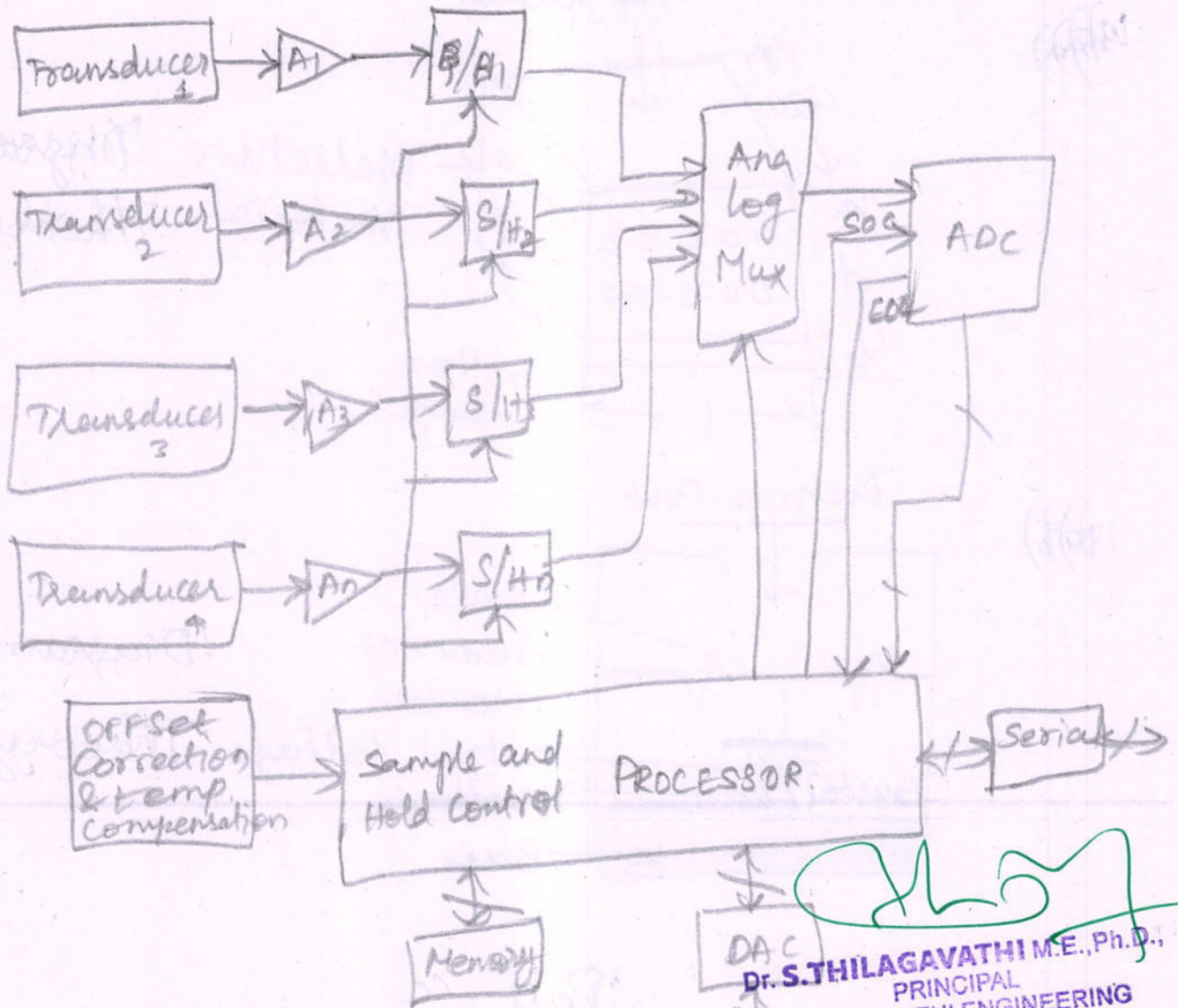
4)a)(i) * Active Transducer   4 M
     * Passive Transducer.

According to transduction principle.

(ii) * Analog Transducer   3 M.
     * Digital Transducer

(iii) * Primary Transducer   3 M
     * Secondary Transducer

(iv) * Transducer.   3 M.
     * Inverse Transducer.

4)b)   (i) Pressure gauge.   (7M)
       (ii) Thermometers   (6M)

(12) a)

$$Z_1 = R_1 + j\omega L_1$$
$$Z_2 = R_2 + r_2 + j\omega L_2$$
$$Z_3 = R_3$$
$$Z_4 = R_4$$
$$Z_1 Z_4 = Z_2 Z_3$$
$$L_1 = L_2 \propto \frac{R_3}{R_4}$$

$$\left.\begin{array}{l}\text{Phasor}\\\text{Diagram}\end{array}\right\} = 4$$

Derivation = 9.

(12) b)
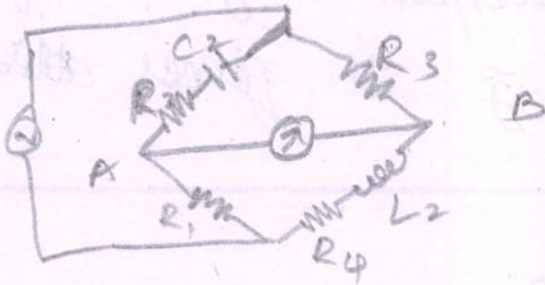
Explanation = 6
Equation = 4
Diagram = 3.

(13) a). A Constant uniform deviation of the operation of an instrument is know as a Systematic error.

Types :- (i) Instrumental errors
(ii) Environmental errors.
(iii) Observational errors.

Explanation = 3
Types = (i) 4 (ii) 4 (iii) 3
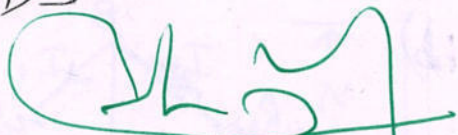
(13) b)

Explanation = 7
Diagram = 4
Applications = 2

9. * Active Transducer
   * Passive Transducer.

10. * Analog transducer converts input signal into output signal, which is a continuous function of time such as thermistor, strain gauge, LVDT, Thermocouple etc.
    * Digital transducer converts input signal into the output signal of the form of pulse e.g. It gives discrete output.

Part – B

11. a) Kelvin double Bridge:
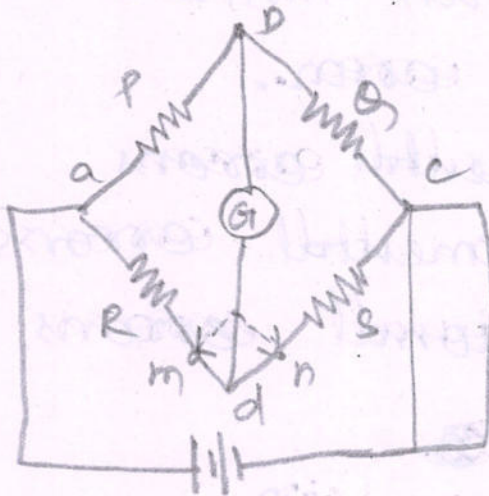
Diagram = 4

Theory = 5

Equation = 4

11. b)
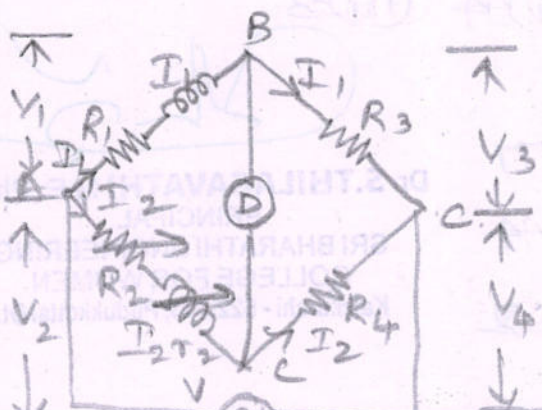
Diagram = 4

Theory = 5

Equation = 4

5. Data loggers are electronic devices which automatically monitor and record environmental parameters over time, allowing conditions to be measured, documented, analysed and validated.

6.

Hay's Bridge	Maxwell's Bridge
* It is used to determine the inductance of an inductor with a high Q factor. * It's simple.	* It is only appropriate for measuring the values of Inductors with a medium quality factor. * It is complicated.

7. A Transducer is an electronic device that converts energy from one form to another.

8. * Attenuation can be done easily.
* Mass inactivity effects can be reduced
* Friction effects can be reduced.
* The output can be specified & recorded remotely at a distance from the sensing medium.

Cycle test -II.
EE3405 Measurements
            and Instrumentation,
            Key Answer
                Part A

1. * One of the advantages of using a
bridge circuit to measure resistance
is that the voltage of the power source
is irrelevant.
   * The resistance of the meter wire
is known and can be used to calculate
the resistance of the unknown

2. In the Unbalanced condition of the
bridge, when current flows, it causes
the pointer of galvanometer to get
deflected. Thus, the deflection rate is
the function of sensitivity.

3. A Maxwell bridge is a modification
to a Wheatstone bridge used to measure
an unknown inductance in terms of
Calibrated resistance and inductance. or
resistance and Capacitance.

4. Wein's bridge is used for measurement of Capacitance
measurement of Capacitance
resistance and frequency.

12) (a) (i) Strings with 3 consecutive 0's.

$L = \{000, 0001, 1000, 10001, \ldots\}$

Minimum of states = 3

No. of states = $3 + 1 \Rightarrow 4$
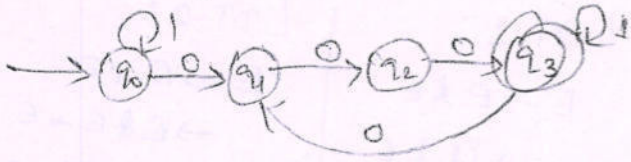
(ii) Pumping lemma:

Pumping lemma 'p', such that any string 's' where $|s| \geq p$ may be divided into 3 parts. $S = xyz$ such that the following conditions must be true.

(i) $xy^i z \in A$ for every $i \geq 0$

(ii) $|y| > 0$

(iii) $|xy| \leq P$.

———— x ———— x————
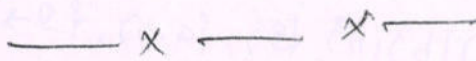
14) (b) (i) aaabbabbba.

RDT:
LDT:
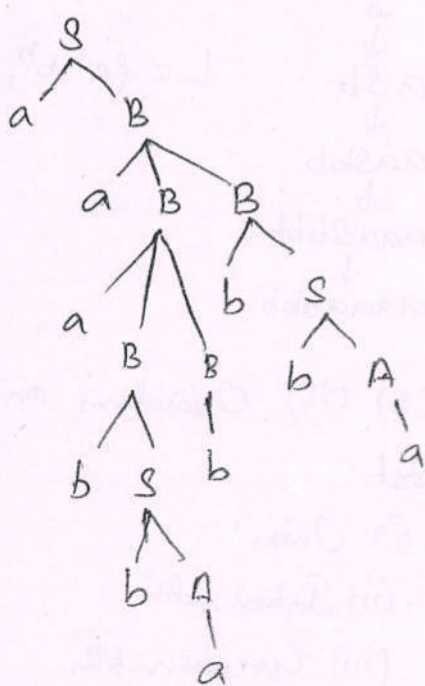
	S
	aB
	aaBB
	aaBbS
	aaBbbA
	aaBbba
	aaaBBbba
	aaaBbbba
	aaabSbbba
	aaabbAbbba
	aaabbabbba

2) (ii) Differentiate DFA & NFA.

DFA	NFA
① I/p string to unique state	More than 1 next state.
② Complex to convert from RE	Easy to convert from RE

15) (a) (i) $\sum i^2 = [n(n+1)(2n+1)/6]$

LHS: $\dfrac{k(k+1)(2k+1)}{6} + (k+1)^2$

$= (k+1)\left[\dfrac{k(2k+1)}{6} + (k+1)\right]$

$= (k+1)\left[\dfrac{k(2k+1) + 6k + 6}{6}\right]$

$= (k+1)\left[\dfrac{2k^2 + k + 6k + 6}{6}\right]$

$= (k+1)\left[\dfrac{2k^2 + 7k + 6}{6}\right]$

$= (k+1)(k+2)(2k+3)/6$

$= RHS$ "

(ii) DFA, Substring (101)

$L = \{101, 0101, 1010 \ldots\}$
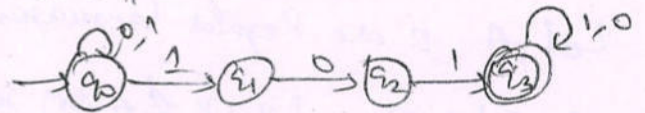
15) (b) (i) closure properties of R.L

Union, Complement, Intersection, Reversal, difference, closure, Concatenation, Inverse homomorphism, Homomorphism.

15) (b) (ii) NFA, 0101, R.E for it.

Same.
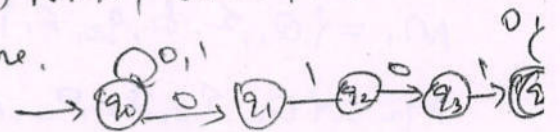
$(0+1)^* 0101 (0+1)^*$.
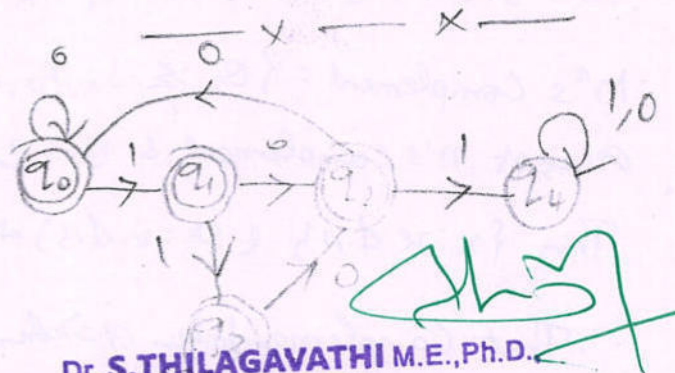
———— x ———— x————

13) (a) (i) $(0+1)^* (00+11) (0+1)^*$
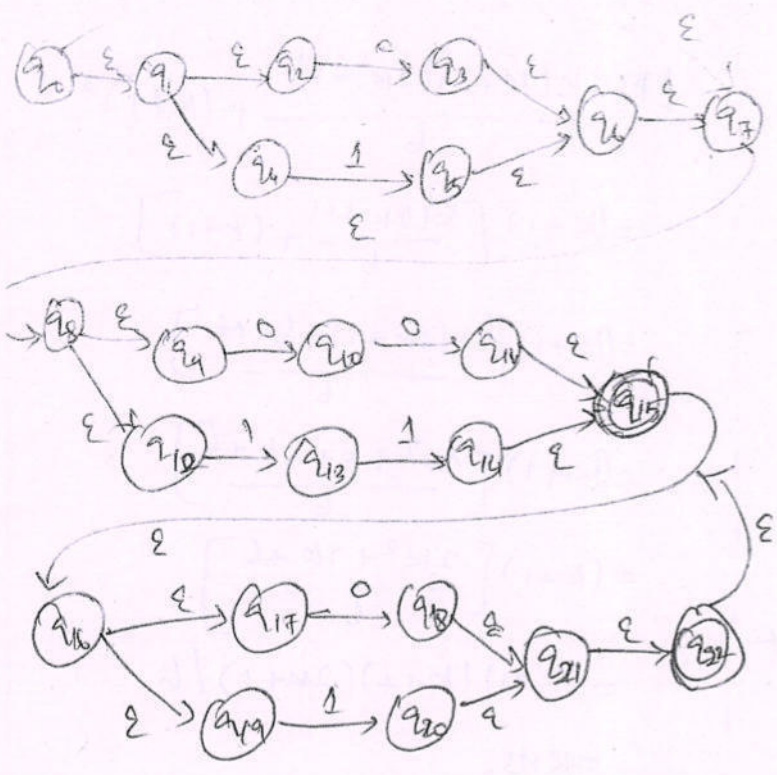
13) (a) (ii) Regular sets closed under Complementation.

Let A, B are Regular languages.

$COR(A,B) = \{x : x \notin A \text{ or } x \notin B\}$

$\Rightarrow \{x : x \in A\text{'s Complement}\} \cup$
$\{x : x \in B\text{'s Complement}\}$

$\therefore A \& B$ are regular,

$M_1 = \{Q_1, \Sigma_1, \delta_1, q_0, F_1\}$ &

$M_2 = \{Q_2, \Sigma_2, \delta_2, P_0, F_2\}$ be DFA's that

accept $A \& B$.

Then DFA's M_1's Complement $= \{Q_1, \Sigma_1, \delta_1, q_0, Q_1 - F_1\}$

M_2's Complement $= \{Q_2, \Sigma_2, \delta_2, P_0, Q_2 - F_2\}$.

accept A's Complement & B's Complement.

Then $\{x : x \notin A\}$ & $\{x : x \notin B\}$ are regular.

$\therefore$ That Complementation operation q is regular.

Staff Incharge

13) (b) (ii) in DFA, three consecutive of Ambiguous grammar.

$E \rightarrow E + E \mid E * E \mid E \mid id$

$id * idfid \rightarrow$ string.

LDT 1:

$E \rightarrow E * E$
$\rightarrow id * E$
$\rightarrow id * id + E$
$\rightarrow id * id + id$

LDT 2:

$E \rightarrow E + E$
$\rightarrow E * E + E$
$\rightarrow id * id + E$
$\rightarrow id * id + id$

13) (b) (ii) $\{S\}, \{a, b\}, \{S \rightarrow aSb\}$
$\{S \rightarrow ab\}, S\}$

S
$\downarrow$
aSb
$\downarrow$
$aaSbb$
$\downarrow$
$aaaSbbb$
$\downarrow$
$aaaabbb$
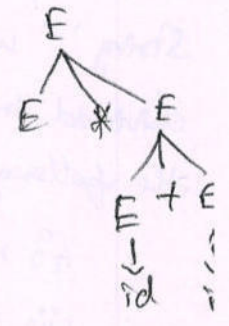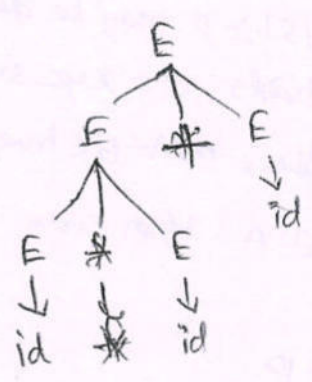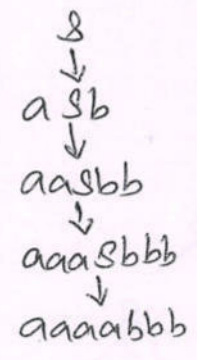
$L = \{a^n b^n, n \geq 1\}$

13) (b) (iii) Operations on the Set.

(i) Union

(ii) Intersection

(iii) Concatenation

(iv) Complementation

R.H.S $= \left(\frac{(k+1)(k+2)}{2}\right)^2$

$= (k+1)^2 (k+2)^2 / 4$

$= (k^2 + 2k + 1)(k^2 + 4k + 4)/4$

$= (k^4 + 4k^3 + 4k^2 + 2k^3 + 8k^2 + 8k +$
$\quad k^2 + 4k + 4)/4$

$= k^4 + 6k^3 + 13k^2 + 12k + 4)/4 \quad \longrightarrow ③$

$\therefore$ LHS = RHS, Thus the given
expression is true.

—— x —— x ——

2) (a)(i)

$\delta | \delta | P$	0	1
$\rightarrow q_0$	$\{q_0, q_1\}$	$\{q_0\}$
q_1	ϕ	$\{q_2\}$
$* q_2$	ϕ	ϕ
$\{q_0, q_1\}$	$\{q_0, q_1\}$	$\{q_0, q_2\}$
$* \{q_0, q_2\}$	$\{q_0, q_1\}$	$\{q_0\}$
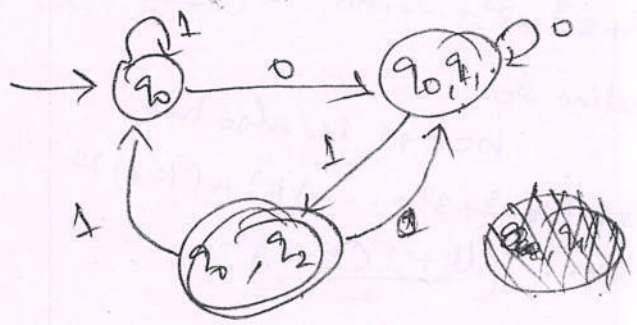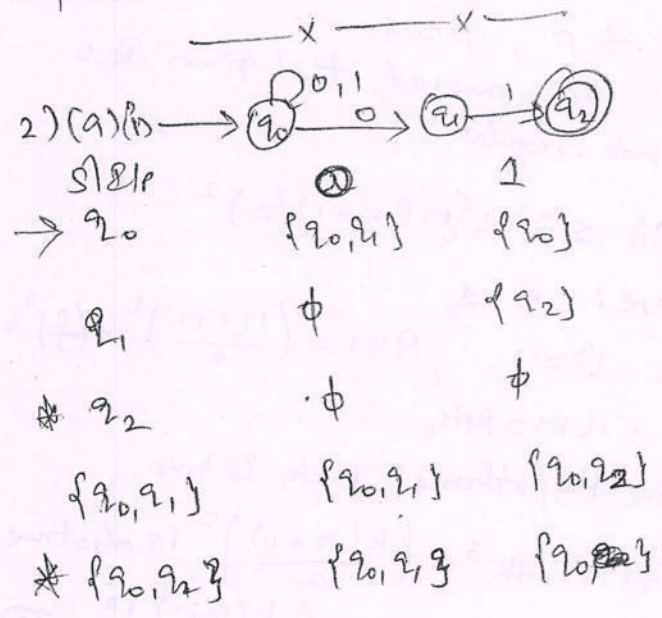
12) (a) (ii) $2^n > n^3$, $n \ge 10$.

Basis: n=10
$\quad 2^{10} > (10)^3$. Is true.

Induction hypothesis:
$\quad n = k$ then

Inductive step:
$\quad$ LHS $= 2^{(k+1)} \Rightarrow 2 \cdot 2^k$
$\quad \ge (1 + \frac{1}{10})^3 \cdot 2^k$

$\ge (1 + \frac{1}{k}) \cdot 2^n$

But, $2^k > k^3$, replace 2^k by k^3

$\ge (1 + \frac{1}{k})^3 \cdot k^3$

$\ge \left(\frac{k+1}{k}\right)^3 k^3$

$\ge \frac{(k+1)^3}{k^3} \cdot k^3$

$\ge (k+1)^3$

$=$ R.H.S

—— x —— x ——

12) b) (i)

δ	A	B
Q_0	$\{q_0, q_1\}$	$\{q_1\}$
q_1	$-$	$\{q_0, q_1\}$

	A	B
Q_0	$\{q_0, q_1\}$	$\{q_1\}$
q_1	ϕ	$\{q_0, q_1\}$
$\{q_0, q_1\}$	$\{q_0, q_1\}$	$\{q_1, q_0\}$

(ii) Table partitioning Method.

① Remove all the unreachable states from initial state

② Draw Transition Table

③ Split the Transition Table into T_1 & T_2.
$\quad T_1 \rightarrow$ Contains all final states
$\quad T_2 \rightarrow$ Contains non-final states.

④ Find similar rows from T_1 & T_2, if it is same, replace one of them by another one

⑤ Repeat step 3 until find no similar row

⑥ Repeat 3 & 4th step for table T_2 also.

⑦ Now Combine reduced T_1 & T_2.

δ	0	1
→P	{q,s}	{q}
(q)	{r}	{q,r}
r	{s}	{P}
(s)	-	{P}
{q,s}	{P}	{P,q,r}
{q,r}	{r,s}	{P,q,r}
{P,q,r}	{q,r,s}	{P,q,r}
{r,s}	{s}	{P}
{q,r,s}	{r,s}	{P,q,r}

$$-------x-------x-----$$
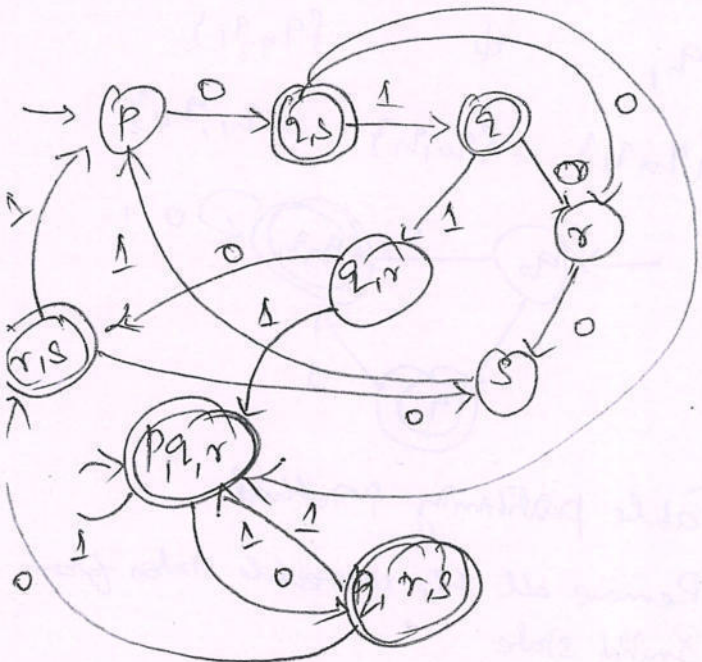
1) b) (i) Pumping lemma:

$$L = \{a^n b^n, n > -1\}$$

Assume that A is regular.

Pumping length = P.

$$S = a^P b^P$$

If P = 7, S ⇒ aaaaaaabbbbbbb

Case 1: The y is in the 'a' part.

$$\underbrace{aaaaa}_{x}\underbrace{aa}_{y}\underbrace{bbbbbbb}_{z}$$

Case 2: y is in the b part.

$$\underbrace{aaaaaaa}_{x}\underbrace{bbbbb}_{y}\underbrace{bb}_{z}$$

Case 3: The 'y' is in the 'a' & 'b' part.

$$\underbrace{aaaa}_{x}\underbrace{gaabb}_{y}\underbrace{bbbbb}_{z}$$

For case1: $xy'z \Rightarrow xy^2z$

$$aa\ aaaaaaaa\ abbbbbbb$$
$$11 \neq 7$$

For case 2: $aaaaaaa\ bbbbbbbbbbb$
$$7 \neq 11$$

For case 3: $xy'z \Rightarrow xy^2z$

$$aaaaaaaabbaabbbbbbb\ ,\ a^n b^n$$

$$|xy| \leq P,\ p \simeq 7.$$

Hence proved. that given R.L L is not regular.

11) (b) (ii) $\sum i^3 = \{n(n+1)/2\}^2$

Base Case: $n=1$,

LHS: $1^3 = 1$, $RHS = \left(\frac{1(1+1)}{2}\right)^2 \Rightarrow \left(\frac{2}{2}\right)^2 =$

$\therefore$ LHS $\subset$ RHS,,

Inductive Hypothesis: $n=k$ is true.

$1^3+2^3+3^3+\cdots+k^3 = \left(\frac{k(k+1)}{2}\right)^2$ is also true

$$1^3+2^3+3^3+\cdots+k^3 = \left(\frac{k(k+1)}{2}\right)^2 \cdots ①$$

Inductive step:

$n=k+1$ is also true.

LHS: $1^3+2^3+3^3+\cdots+k^3+(k+1)^3$

RHS: $\left(\frac{(k+1)(k+2)}{2}\right)^2$

from eqn ①,

$$\left(\frac{k(k+1)^3}{2}\right)^2 + (k+1)^3 = \frac{k^2(k+1)^2}{4} + (k+1)^3$$

$$= k^2(k+1)^2 + 4(k+1)^3 / 4$$

$$= \frac{k^2(k^2+2k+1) + 4(k^3+3k^2+3k+1)}{4}$$

$$= \frac{k^2(k^2+2k+1) + 4k^3+12k^2+12k}{4}$$

$$= \frac{k^4+2k^3+k^2+4k^3+12k^2+12k}{4}$$
$$\qquad\qquad\qquad +4$$

$$LHS = k^4+6k^3+13k^2+12k+4 / 4 \longrightarrow ②$$

(Q_4, Q_0) $x=0, \delta(Q_4, 0) = Q_5$ $x=1, \delta(Q_4, 1) = Q_6$ $\quad \delta(Q_0, 0) = Q_1 \quad\quad \delta(Q_0, 1) = Q_2$

(Q_4, Q_3)

$x=0, \delta(Q_4, 0) = Q_5$ $\quad x=1, \delta(Q_4, 1) = Q_6$

$\delta(Q_3, 0) = Q_6 \quad\quad\quad \delta(Q_3, 1) = Q_6$

(Q_5, Q_1) $\quad\quad\quad (Q_5, Q_2)$

$x=a, \delta(Q_5, 0) = Q_5 \quad | \quad \delta(Q_5, 0) = Q_5$

$\quad\quad \delta(Q_1, 0) = Q_3 \quad | \quad \delta(Q_2, 0) = Q_4$

	Q_0	Q_1	Q_2	Q_3	Q_4	Q_5
Q_1	✓					
Q_2	✓					
Q_3	✓	✓	✓			
Q_4	✓	✓	✓	✓		
Q_5	✓	✓	✓	✓	✓	

States	δ / P	
	0	1
Q_0	$Q_1 Q_2$	$Q_1 Q_2$
$Q_1 Q_2$	$Q_3 Q_4$	$Q_3 Q_4$
$Q_3 Q_4$	Q_5	Q_5
Q_5	Q_5	Q_5

δ / I	0	1	2
q_0	$\{q_0, q_1, q_2\}$	$\{q_1, q_2\}$	$\{q_2\}$
q_1	ϕ	$\{q_2\}$	$\{q_2\}$
q_2	ϕ	ϕ	$\{q_2\}$

$\rightarrow \boxed{Q_0} \xrightarrow{0,1} \boxed{Q_1 Q_2} \xrightarrow{0,1} \boxed{Q_3 Q_4} \xrightarrow{} \boxed{Q_5} \circlearrowright 0,1$

c). NFA - ε to NFA without ε.

$\rightarrow \boxed{q_0} \xrightarrow[\varepsilon]{0} \boxed{q_1} \xrightarrow[\varepsilon]{1} \boxed{q_2} \circlearrowright 2$
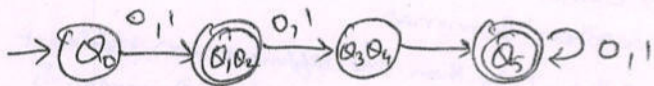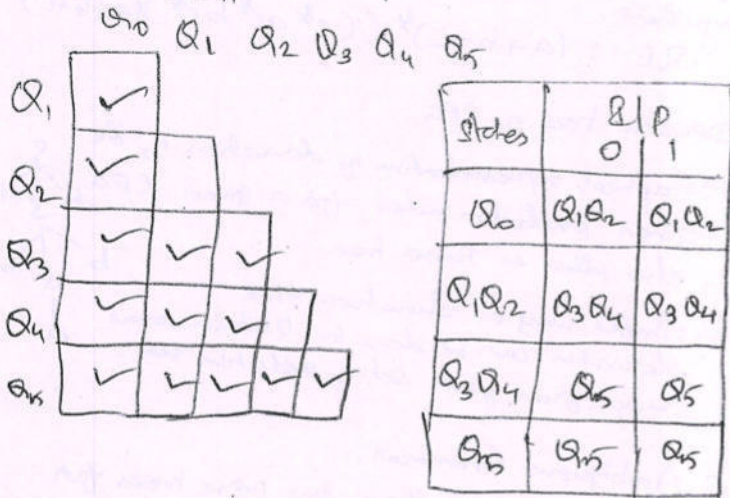
step (i): Obtain ε closure.

$\varepsilon^* $ for $q_0 \Rightarrow \{q_0, q_1, q_2\}$

ε^* for $q_1 \Rightarrow \{q_1, q_2\}$

ε^* for $q_2 \Rightarrow \{q_2\}$

step (ii): Obtain δ' transition for each state & each I/p.
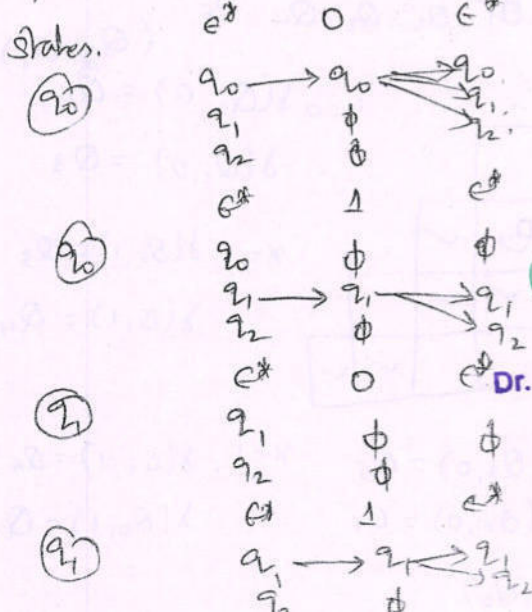
States.

	ε^δ	0	ε^*
q_0	$q_0 \rightarrow q_0$	q_0
	q_1	ϕ
	q_2	ϕ
	ε^*	1	ε^*

q_0

q_0	ϕ	ϕ
$q_1 \rightarrow q_1$	q_1
q_2	ϕ	q_2
ε^*	0

q_1

q_1	ϕ	ϕ
q_2	ϕ	ε^*
ε^*	1

q_1

$q_1 \rightarrow q_1 \rightarrow q_1$

$\boxed{q_2} \rightarrow q_0, q_1$

$\quad\quad q_2 \rightarrow q_2 \rightarrow q_2$

| ε^* | 2 | ε^* |

$\boxed{q}$

| q_1 | ϕ | — |
| $q_2 \rightarrow q_2 \rightarrow q_2$ |

| ε^* | 0 | ε^* |
| q_2 | ϕ | — |

$\boxed{q_2}$
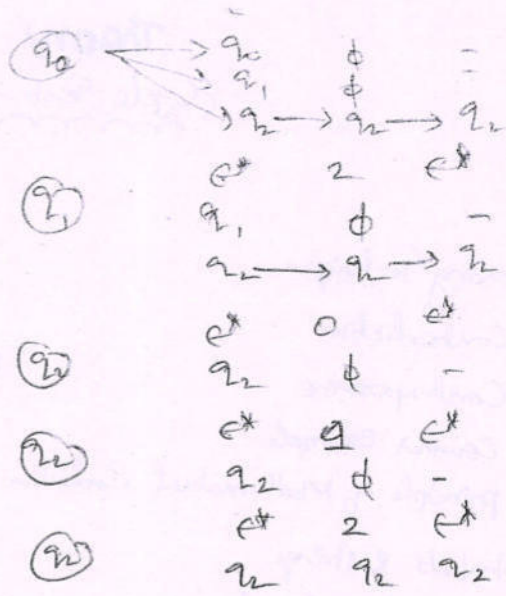
| ε^* | 1 | ε^* |
| q_2 | ϕ | — |

| ε^* | 2 | ε^* |
| q_2 | q_2 | q_2 |
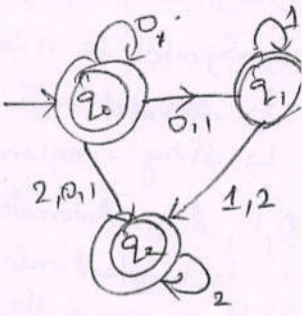
Part - 'B'

11)(a)(i) Theorem:

Basis: $|x| = 1$, Then x is a symbol a.

$\delta'(q_0, a) = \delta''(q_0, a)$

Induction: $|x| > 1$, let $x = wa$.

$\delta'(q_0, wa) = \delta'(\delta'(q_0, w), a)$

By Inductive hypothesis,

$\delta'(q_0, w) = \delta''(q_0, w) = p$.

$\delta'(p, a) = \cup \delta'(q, a) = \cup \delta''(q, a)$

$p = \delta''(q_0, w)$

We have $\cup \delta''(q, a) = \delta''(q_0, wa)$, q in p

$\delta'(q_0, wa) = \delta''(q_0, wa)$

11)(a)(ii)

M = $(\{P, Q, R\}, \{0, 1\}, \delta, P, \{Q, S\}$

δ / δ_P	0	1
P	$\{q, s\}$	$\{q\}$
Q	$\{r\}$	$\{q, r\}$
R	$\{s\}$	$\{p\}$
S	—	$\{p\}$

Part - A

1) Theorem Proving Technique:
  - Proof by Contradiction
  - Proof by Contrapositive
  - Proof by Counter example
  - Proof by principle of Mathematical Evaluation

2) Symbols, Alphabets & strings:
  - Symbol is a user defined entity.
  - Alphabet - Σ - Set of symbols.
  - String - sequence of symbols of finite length.

3) Need of Automata theory:
  - Important role in Compiler design
  - To prove the correctness of the program
  - In switching theory - design & analysis of digital circuits automata theory is applied.

4) DFA:
  DFA = $\{ Q, \Sigma, \delta, q_0, F \}$

  $Q \rightarrow$ Set of states , $F \rightarrow$ Final states
  $\Sigma \rightarrow$ Set of I/p symbols , $\delta \rightarrow$ Transition function.
  $q_0 \rightarrow$ starting Symbol

5) Representation of Finite automata:
  ① Transition diagram
     Transition table

  ○ $\rightarrow$ Represent the state
  $\longrightarrow$ Represent transition
  $\rightarrow$ (s_0) $\rightarrow$ Starting state
  (s_f) $\rightarrow$ Final state

States	a	b
$\rightarrow q_0$	q_1	-
$* q_1$	q_1	q_1

6) DFA $\rightarrow$ all strings ends with "00"
  $L = \{ 00, 000, 100, 1100 \dots \}$
  Minimum no. of states = 2
  no. of states = 2+1 => 3

7) Regular Expression:-
  Let Σ be an alphabet which is used to denote the input set. The regular expression over Σ can be defined as follows.
  - ϕ is a regular expression, denotes the empty

  - For each 'a' in Σ 'a' is a regular expression that denotes the set $\{a\}$.
  - ε is a regular expression & denotes the set $\{\varepsilon\}$

8. R.E for language, that have the set of strings over $\{a,b,c\}$ containing at least one a & one b. The string must have at least 1 'a' & 1 'b'. Then there can be any number of a's, b's & c's anywhere.
  R.E : $(a+b+c)^* ((c^* a c^* b c^*)(a+b+c)^*$

9) Derivation tree of CFG:
  - Graphical representation of derivation of the given production rules for a given CFG.
  - also called as Parse tree.
  - simple way to show how the derivation can be done to obtain some string from given set of production rule.
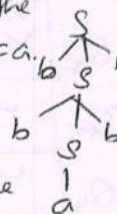
10. Ambiguous Grammar:-
  - Exists more than one parse trees for a given grammar
  - either more than one leftmost (or) rightmost derivation possible, then that grammar is said to be ambiguous grammar.

Part - B

16 (a). Myhill - Nerode theorem:
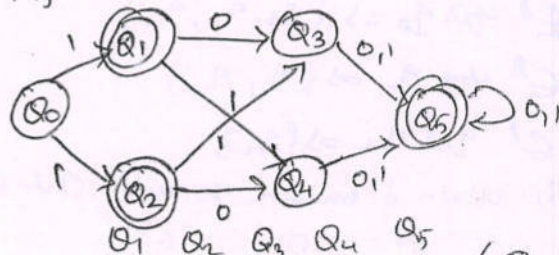
Q_1 Q_2 Q_3 Q_4 Q_5

(Q_2, Q_1)
$x=0, \delta(Q_2, 0) = Q_4$
$\delta(Q_1, 0) = Q_3$

$x=1, \delta(Q_2, 1) = Q_3$
$\delta(Q_1, 1) = Q_4$

$x=0, \delta(Q_3, 0) = Q_5$ $x=1, \delta(Q_3, 1) = Q_5$
$\delta(Q_0, 0) = Q_1$, $\delta(Q_0, 1) = Q_2$

(Q_3, Q_0)

Part-c

13. $TCL = ECL + HL$

$= K_e (Bm)^2 f^2 t^2 \cdot v + d_1 (Bm)^{1.6} f \cdot v$

$= B \cdot f^2 + A \cdot f$

$TCL = Af + Bf^2$

$P_L = Af + Bf^2$

$1500 = 50f + B(50 \times 50)$

$A + 50B = 30$

$\underline{A + 75B = 40}$

$25B = 10$

$B = \frac{10}{25} = 0.4$

$B = 0.4$ in $A + 75(0.4) = 40$

$A = 40/(75 \times 0.4)$

$A = 10/1$

$P_{loss} = Af + Bf^2$

$1500 = (10 \times 50) + 0.4(50)^2 = 500 + 0.4(2500)$

$= 500 + 0.4(2500$

$AL = A \times f = 10 \times 50 = 500W$

$ECL = B \times f^2 = 0.4 \times (50)^2 = 1000W$

$P_{loss} = Af + Bf^2 = 3000 = 10(75) + (0.4)(75)^2$

$ECL = Bf^2 = 0.4(75)^2 = 2250W$

$HL = Af = 10 \times 75 = 750W$

Faculty Incharge

HOD EEE

12.b.
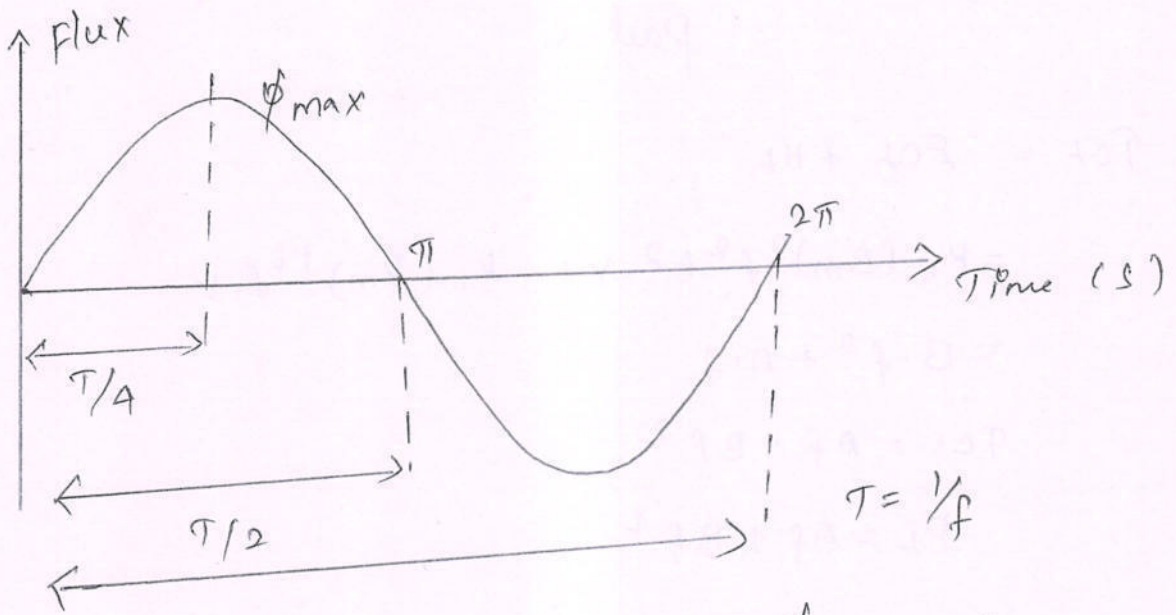
$$T \quad \text{Avg. rate of } \phi = \frac{\phi_m}{(1/4f)} = \text{wb/sec}$$

$$FF = \frac{RMS \ Value}{Avg \cdot Value} = 1.11$$

$$RMS \quad Value = FF \times Avg \cdot Value = 1.11 \times 4 f \phi m = 4.44 f \phi m \ VoH$$

$$E_1 = 4.44 \ f \ \phi m \ AN_1 \ volts$$

$$E_2 = 4.44 \ f \ \phi m \ AN_2 \ volts$$
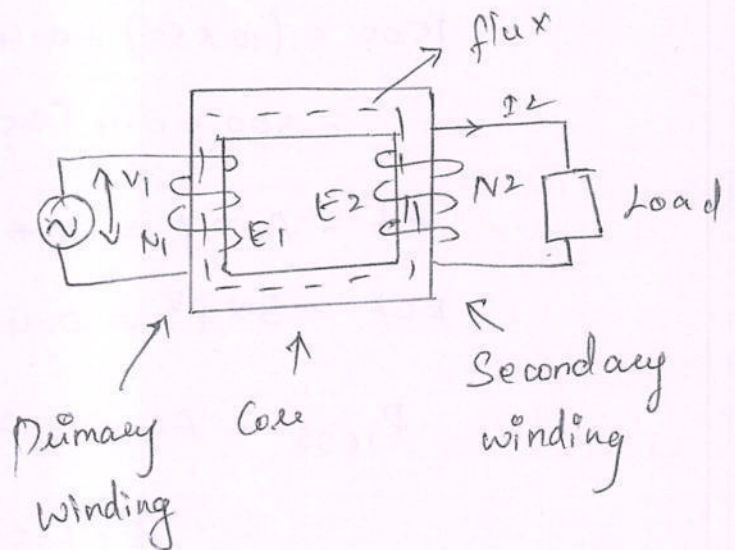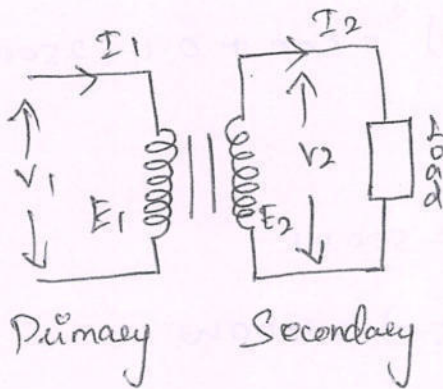
Primary   Secondary

Primary
Winding

Core

Secondary
winding

09. When oil gets heated due to flow of 'AC' & exposed to O₂ (oxygen), sledging takes place

10. As ratioon distribution is high (11000 to 400v)

PART-B

11.a $L = \dfrac{N\phi}{I}$; $L = \dfrac{N^2}{S}$; $M = \dfrac{N_1 N_2}{I}$; $M = \dfrac{N_1 \phi_{21}}{I_2}$; $\dfrac{N_2 \phi_{12}}{I_1}$

$$k = \dfrac{M}{\sqrt{L_1 L_2}}$$

11.b $N_1 = 100$; $N_2 = 150$; $A = 125\,cm^2$; $L = 200\,cm$; $M_i = 2000$

$$L = \dfrac{N\phi}{I} \text{ (or) } \dfrac{N^2}{S} ; \quad S = \dfrac{\mu_0 \mu_r}{\lambda} \quad \mu_r = 1\ (air)$$

$$\mu_0 = 4\pi \times 10^{-7} \quad \mu_i = 2000$$

$$M = \dfrac{N_1 \phi_{21}}{I_2} \text{ (or) } \dfrac{N_2 \phi_{12}}{I_1} ; \quad K = \dfrac{M}{\sqrt{L_1 L_2}}$$

12.a Sumpner Test [Back-Back Test]
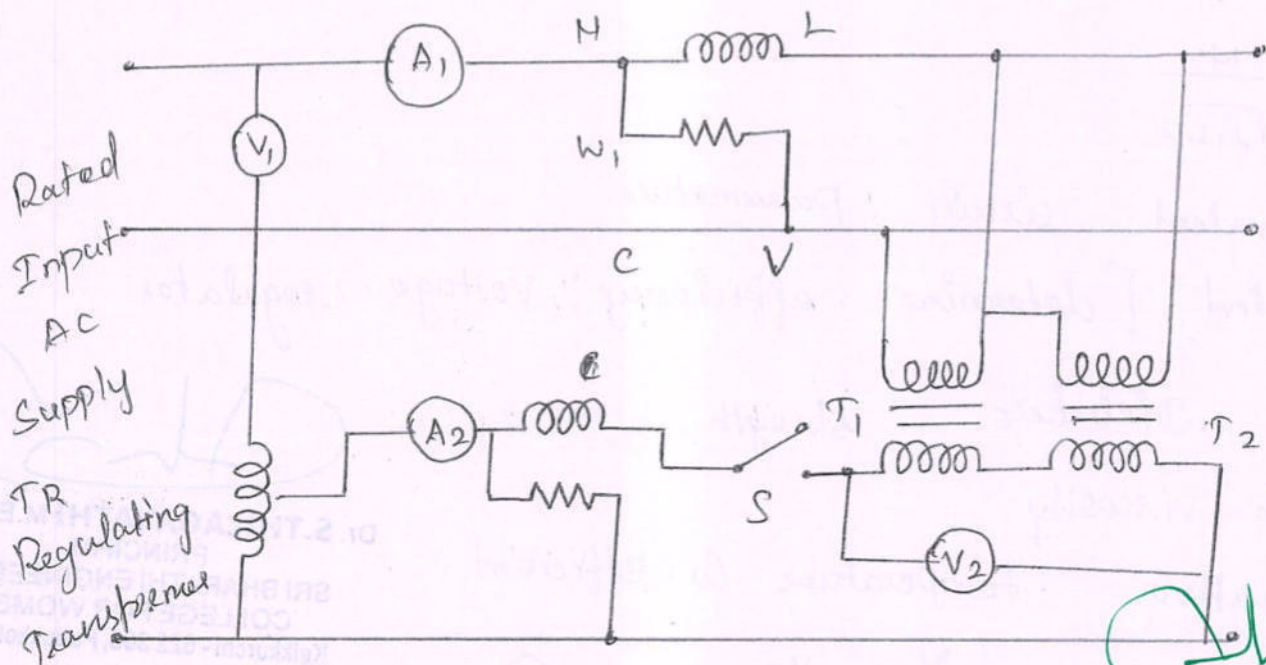
Answer Key - Cycle Test - I

EE8301 Electrical Machines - I

(Regulation - 2017)

25/9/21
(FN)

[AY - 2021 - 2022 - ODD]

PART - A

01. Statically induced Emf - Eg. Transformer - Stationary Conductors
[primary & Secondary winding]
- charging Magnetic field (Alternating Current - Alternating flux).

02. 3ϕ - Ac Machines $\rightarrow$ Induction Machine
Synchronous Machine.

03. $L = \dfrac{N\phi}{I}$; No of turns ; ϕ - Magnetic flux ; I - current through coil

$= N^2/S$ $S \rightarrow$ Reluctance.

04. $M = \dfrac{N_1 N_2}{S}$; $M = \dfrac{N_2 \phi_{12}}{I_1}$ (or) $\dfrac{N_1 \phi_{21}}{I_2}$

05. $K = \dfrac{M}{\sqrt{L_1 L_2}}$

06. Equivalent circuit Parameters.
To find [determine efficiency ; voltage regulator

07. High Dielectric strength
High Viscosity
Negative temperature Co-efficient

08. Regulation up $= \dfrac{V_{NO} - V_{FL}}{V_{NO}} * 100$; Regulation down in %. $= \dfrac{V_{NO} - V_{FL}}{V_{FL}} * K$

13.
a) **(i)** $\left(\dfrac{\partial z}{\partial r}\right)^2 = \left(\dfrac{\partial z}{\partial x}\right)^2 \cos^2\theta + \left(\dfrac{\partial z}{\partial y}\right)^2 \sin^2\theta + 2\dfrac{\partial z}{\partial x}\dfrac{\partial z}{\partial y}\sin\theta\cos\theta$

$$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad \underline{\quad}\;(3)$$

$\dfrac{1}{r^2}\left(\dfrac{\partial z}{\partial \theta}\right)^2 = \left(\dfrac{\partial z}{\partial y}\right)^2 \cos^2\theta + \left(\dfrac{\partial z}{\partial x}\right)^2 \sin^2\theta - 2\dfrac{\partial z}{\partial x}\dfrac{\partial z}{\partial y}\sin\theta\cos\theta$

$$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad \underline{\quad}\;(3)$$

$\left(\dfrac{\partial z}{\partial r}\right)^2 + \dfrac{1}{r^2}\left(\dfrac{\partial z}{\partial \theta}\right)^2 = \left(\dfrac{\partial z}{\partial x}\right)^2 + \left(\dfrac{\partial z}{\partial y}\right)^2 \qquad\text{———}\;(2)$

(ii) $\dfrac{\partial x}{\partial u} = e^u\cos v,\quad \dfrac{\partial x}{\partial v} = -e^u\sin v,\quad \dfrac{\partial y}{\partial u} = e^u\sin v,\quad \dfrac{\partial y}{\partial v} = e^u\cos v$

$$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad \underline{\quad}\;(1)$$

$\dfrac{\partial z}{\partial u} = \dfrac{\partial z}{\partial x}\cdot\dfrac{\partial x}{\partial u} + \dfrac{\partial z}{\partial y}\cdot\dfrac{\partial y}{\partial u} = x\dfrac{\partial z}{\partial x} + y\dfrac{\partial z}{\partial y} \qquad\text{———}\;(2)$

$$\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad \text{———}\;(1)$$

$\dfrac{\partial z}{\partial v} = -y\dfrac{\partial z}{\partial x} + x\dfrac{\partial z}{\partial y}$

$y\dfrac{\partial z}{\partial u} + x\dfrac{\partial z}{\partial v} = xy\dfrac{\partial z}{\partial x} + y^2\dfrac{\partial z}{\partial y} - xy\dfrac{\partial z}{\partial x} + x^2\dfrac{\partial z}{\partial y} \qquad\text{———}\;(2)$

$\qquad\qquad\qquad\qquad = e^{2u}(\sin^2 v + \cos^2 v)\dfrac{\partial z}{\partial y}$

$\qquad\qquad\qquad\qquad = e^{2u}\dfrac{\partial z}{\partial y}. \qquad\qquad\text{———}\;(2)$

Faculty Incharge

HOD / S&H

12.
a)

(i) $x = \lim\limits_{x \to 0} \left(\frac{1}{x}\right)^{\tan x} = (\infty)^0 \Rightarrow \log x = \lim\limits_{x \to 0} \log\left(\frac{1}{x}\right)^{\tan x} = (0 \times \infty)$ ___(3

$\Rightarrow \lim\limits_{x \to 0} \frac{1}{\cot x} \log(x^{-1}) = \frac{\infty}{\infty} \Rightarrow \lim\limits_{x \to 0} \frac{-1(1/x)}{-\csc^2 x} = \lim\limits_{x \to 0} \frac{\sin^2 x}{x}$ ___(3

$\log x = (1)^2 \, 0 \Rightarrow x = e^0 = 1$ ___ (2)

(ii) $f(x) = x(x+2) e^{-x/2} \Rightarrow f(-2) = 0, \; f(0) = 0$ ___ (1)

$f'(x) = e^{-x/2}\left[\dfrac{-x^2 + 2x + 4}{2}\right] \Rightarrow f'(x) = 0 \Rightarrow -x^2 + 2x + 4$ ___(

$x = \dfrac{2 \pm \sqrt{4+16}}{2} = 1 \pm \sqrt{5}$ ___ (2)

$1 - \sqrt{5} = -1.2361$ is in the $(-2, 0)$ ___ (2)

12.
b)

(i) $f'(x) = 6x^2 + 6x - 12, \; x = 1, \; x = -2, \; f(1) = -3, \; f(-2) = 24$ ___(3)

$f(a) = -28, \; f(b) = 8$ ___ (3)

Absolute maximum is 24 at $x = -2$
Absolute minimum is -28 at $x = -4$ ___ (2)

(ii) $\dfrac{dy}{dx} = 4x^3 - 16x \Rightarrow x = 0, 2, -2$ ___ (1)

$\dfrac{d^2y}{dx^2} = 12x^2 - 16$ ___ (1)

$\dfrac{d^2y}{dx^2} \to$ at $x = 0 = -16 < 0$, maximum value is 0 ___(
at $x = 2 = 32 > 0$, minimum value is -16 ___
at $x = -2 = 32 > 0$, minimum value is -16 ___

Part-B

11.
a)

(i) At $x = -1$, $\lim\limits_{x \to -1^{-}} f(x) = \lim\limits_{x \to -1^{+}} f(x) = f(-1)$ ——— (1)

$\lim\limits_{x \to -1^{-}} f(x) = \lim\limits_{x \to -1^{-}} (2x-2) = -4$, $f(-1) = a(-1)+b = -4$

$$a - b = 4 \quad \text{——(3)}$$

At $x = 1$ $\lim\limits_{x \to 1^{-}} f(x) = \lim\limits_{x \to 1^{+}} f(x) = f(1)$

$\lim\limits_{x \to 1^{+}} f(x) = 12$, $f(1) = a+b = 12$ ——— (3)

$$a = 8, b = 4 \quad \text{——— (1)}$$

ii) $u = 2x/1+x^2$, $\dfrac{du}{dx} = \dfrac{2(1-x^2)}{(1+x^2)^2}$. $\dfrac{dy}{du} = \dfrac{1}{\sqrt{1-u^2}}$ ——— (3)

$$\dfrac{dy}{dx} = \dfrac{dy}{du} \times \dfrac{du}{dx} = \dfrac{1}{\sqrt{1-u^2}} \cdot \dfrac{2(1-x^2)}{(1+x^2)^2} \quad \text{——— (2)}$$

$$= \dfrac{2(1-x^2)}{(1+x^2)} \cdot \dfrac{1}{\sqrt{x^4-2x^2+1}} = \dfrac{2}{1+x^2} \quad \text{——(3)}$$

11.
b)

(i) $x^y = e^{x-y} \Rightarrow \log(x^y) = \log(e^{x-y}) \Rightarrow y\log x = x - y$ ——— (4)

$$y = \dfrac{x}{\log x + 1} \Rightarrow \dfrac{dy}{dx} = \dfrac{\log x}{(1+\log x)^2} \quad \text{——— (4)}$$

(ii) $\lim\limits_{x \to 1}\left[\dfrac{x}{x-1} - \dfrac{1}{\log x}\right] = \infty - \infty$ ——— (1)

$\lim\limits_{x \to 1}\left[\dfrac{x\log x - (x-1)}{(x-1)\log x}\right] = \left(\dfrac{0}{0}\right) \Rightarrow \lim\limits_{x \to 1} \dfrac{\log x + x \cdot \frac{1}{x} - 1}{(x-1)(\frac{1}{x}) + \log x(1)} = \left[\dfrac{0}{0}\right]$

$$\Rightarrow \lim\limits_{x \to 1} \dfrac{1/x}{1/x^2 + 1/x} = \lim\limits_{x \to 1} \dfrac{x}{1+x} = \tfrac{1}{2} \quad \text{——— (3)}$$

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MA8151 - Engineering Mathematics - I

Cycle Test - I

<u>Answer key</u>

Part - A

1. The domain is the interval $[-4, \infty)$.

2. $\lim\limits_{x \to 0} \dfrac{2 \sin^2 x/2}{2} = 1 \cdot 0 = 0$

3. $f(2)$ is not defined so f is discontinuous at 2.

4. $f'(x) = 2x - 8$, $f'(a) = 2a - 8$, $f'(3) = -2$. $y = -2x$

5. The domain is $\{(-\infty, 0) \cup (0, 1) \cup (1, \infty)\}$

6. $x^2 u_{xx} + 2xy u_{xy} + y^2 u_{yy} = n(n-1)u = 2(2-1)u = 2u$

7. Euler's Theorem: If u is a homogeneous function of degree n in x and y then $x \dfrac{\partial u}{\partial x} + y \dfrac{\partial u}{\partial y} = nu$.

8. $\sin u = \dfrac{x+y}{\sqrt{x} + \sqrt{y}}$; $x \dfrac{\partial (\sin u)}{\partial x} + y \dfrac{\partial (\sin u)}{\partial y} = \dfrac{1}{2} \sin u = \dfrac{1}{2} tan$

9. $\dfrac{\partial u}{\partial x} = 1$, $\dfrac{\partial u}{\partial y} = -1/2$; $\dfrac{\partial v}{\partial x} = 0$, $\dfrac{\partial v}{\partial y} = 1/2$; $J = 1/2$

10. $\dfrac{\partial^2 u}{\partial x^2} + \dfrac{\partial^2 u}{\partial y^2} + \dfrac{\partial^2 u}{\partial z^2} = \dfrac{2[y^2 + z^2 - x^2 + x^2 + z^2 - y^2 + x^2 + y^2 - z^2]}{(x^2 + y^2 + z^2)^2}$

$= \dfrac{2}{x^2 + y^2 + z^2}$

Slot pitch   Tooth
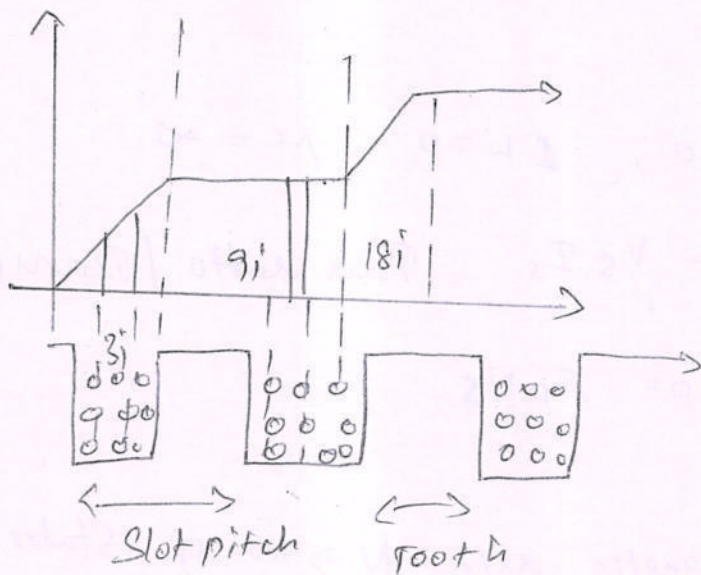
Part-c

8) $\phi = \phi_m \sin \omega t$

$\omega = 2\pi f \, rad/s \, ; \qquad e = N \cdot \dfrac{d\phi}{dt} = \omega \cdot N \cdot \phi_{max} \cdot \cos \omega t$

$$V = E = \dfrac{2\pi}{\sqrt{2}} f N \phi_{max}$$

$W_f = \displaystyle\int_{t_1}^{t_2} P \cdot dt$ $V = E = 4.44 f N \phi_{max}$

$= \displaystyle\int_{t_1}^{t_2} \dfrac{id\lambda}{dt} \times dt$ $V = E = 4.44 f N A_c B_{max}$

$\qquad\qquad\qquad\qquad V = E = 4.44 f N A_c B_{max}$

$= \lambda = N\phi$ $P = i \cdot e = i \cdot N \cdot \dfrac{d\phi}{dt}$

$\qquad\qquad\qquad\qquad P = ei = i \cdot \dfrac{d(N\phi)}{dt}$

$W_f = \displaystyle\int_{\lambda_1}^{\lambda_2} id\lambda \, ; \quad W_f = \displaystyle\int_{B_1}^{B_2} \frac{x}{l_c} \, d\lambda$

$\qquad = \dfrac{HL}{N} NAdB = \displaystyle\int_{B_1}^{B_2} H \cdot d \, B J/m^3$

<u>ideal</u>

$C_L = 0$; $\phi_L = 0$, $M = \infty$

$V_p I_p = V_S I_S$ Thus ratio / Transformation ratio: $\dfrac{N_2}{N_1}$

$E_S N_p = E_p N_S$

$= \dfrac{I_1}{I_2} = \dfrac{E_2}{E_1}$

7a.
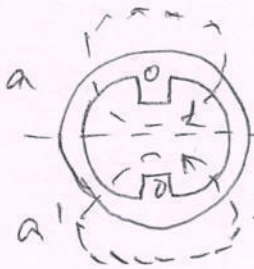
— Magnetic axis $N \Rightarrow$ No of Stator turns

$\rightarrow$ Slots

— Stator

one Conductor — a' — Anticlockwise

(counter clockwise)

direction

a — Clockwise direction

$H * 2g = NI$ $M_S \text{ & } M_r \gg$ airgap

$H_g = NF/2$ airgap $\ll$ pole pitch $\rightarrow$ Magnetic flux lines

cross the airgap

Radially

$MMf (NI) = H_g$ $H = \dfrac{NI}{\lambda} = \dfrac{\text{Ampere turns}}{\text{Meter}}$

$\lambda = 2g$ $F_a = 4/\pi \cdot N_{i/2} \cos \alpha$

$F_a = F_p \cos \alpha$; $F_p = 4/\pi \, N_{i/2}$

7b. MMF $\rightarrow$ periphery of the airgap

circuit law $\rightarrow$ total current through the path

Traversing the 1st path $\rightarrow$ 3 amperes.

"   " 2nd " $\rightarrow$ 6i amperes

"   " 3rd " $\rightarrow$ 9i amperes.

Distance
along airgap
periphery
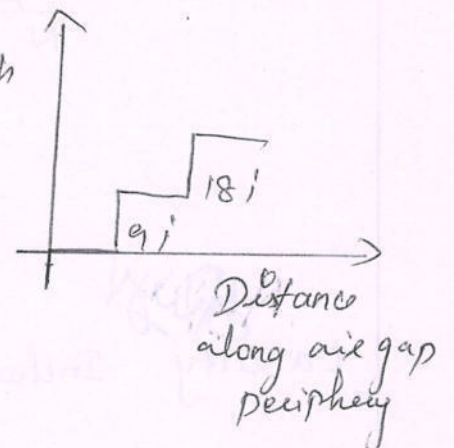
% load	power factor lagging	UPF	power factor leading
25%			
50%			
75%			
100%			
125%			

6b.

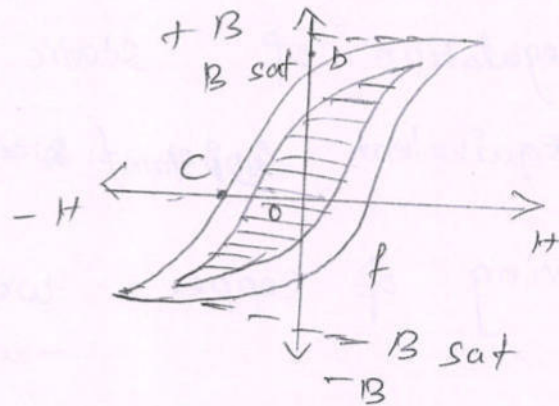$$\frac{1}{(T/2)} \int_0^{T/2} e \cdot dt = \frac{1}{(T/2)} * N*A*B = 2fNAB \quad (\because 1/_T = f)$$

$$= 4fNABm \quad (\because B = 2Bm = flux)$$

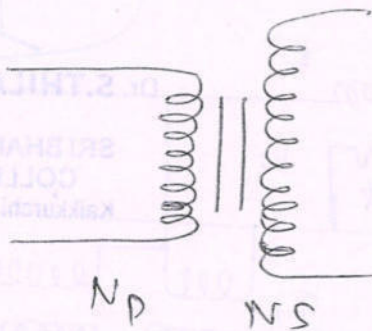$$E_{avg} = 4fNABm$$

$$\frac{E_{rms}}{E_{avg}} = form\ factor$$
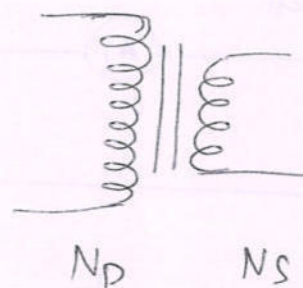
$$E_{rms} = E_{avg} * 1.11$$

$$E_{rms} = 4.44 fNABm$$

Primary winding, $E_P = 4.44 f N_P ABm$

Secondary winding, $E_S = 4.44 f N_S ABm$

$N_P \quad N_S$

Step UP transformer

$N_P \quad N_S$

Step down Transformer

Part - A

21-22

1. frequency

Volume of the Material

thickness of the Material

Magnetic flux (or) Magnetic flux density.

2. $M = \dfrac{N_2 \phi_{21}}{I_1}$ (or) $M = \dfrac{N_1 \phi_{12}}{I_2}$ in "henry"

3. $L = \dfrac{N\phi}{I}$; $L = \dfrac{S^2}{\mathcal{L}}$

4. * To predetermine performance characteristics
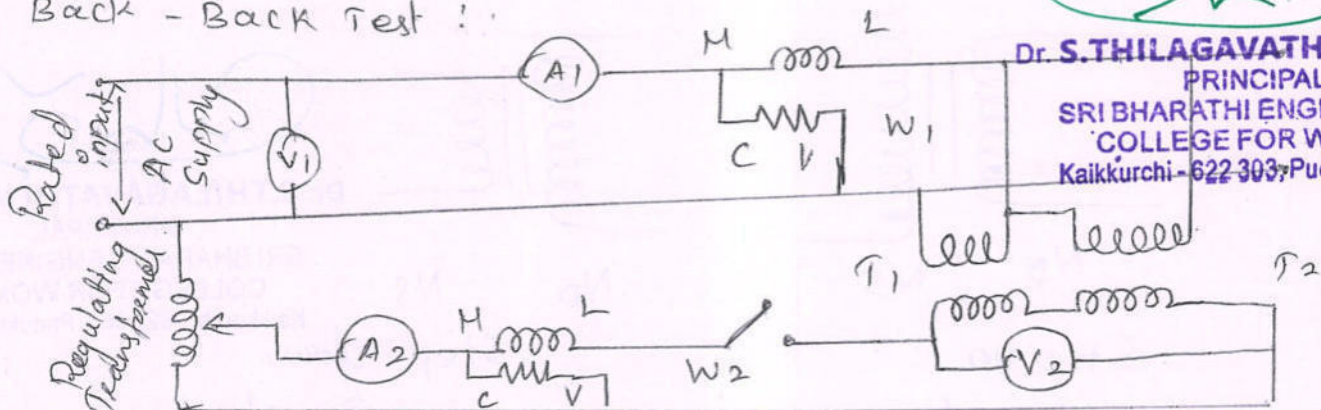
   * Regulation of Static device

   * Equivalent resistance of reactance of the transformer

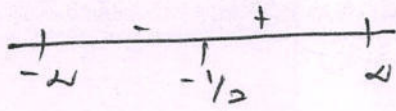5. Saving of copper = weight of 2 winding transformer
   - weigh of auto transformer
   = k * Total weight of the conductor of
   2-winding transformer.

PART - B

6a. Back - Back Test :

Interval	$f''(x)$	concavity	
$(-\alpha, -1/2)$	$-ve$	concave downward	$\longrightarrow$ (1)
$(-1/2, \alpha)$	$+ve$	concave upward	

Point of inflection :-

Put $x = -1/2$ in $f(x)$

$\therefore \quad f(x) = 3 \cdot 1/2$

$\therefore$ Inflection Point $\left(-1/2, \, 3 \cdot 1/2\right) \longrightarrow$ (2)

(ii) Ans:

$$f(x) = \sqrt{x} - 4\sqrt{x}$$

$$f'(x) = \frac{1}{2}x^{-1/2} - \frac{1}{4}x^{-3/4} \longrightarrow (2)$$

$$\therefore f'(x) = 0$$

Then $x = \frac{1}{16} \longrightarrow (2)$

$$f''(x) = -\frac{1}{4}x^{-3/2} + \frac{3}{16}x^{-7/4}$$

Put $x = \frac{1}{16} \longrightarrow (2)$

$$f''(x) = 8 > 0$$

$\therefore$ Local minimum value is $-\frac{1}{4} \longrightarrow (2)$
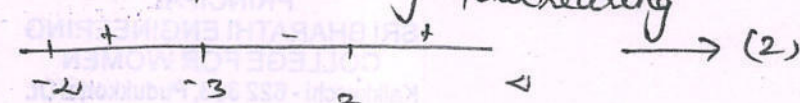
(5b) Ans:

$$f(x) = 2x^3 + 3x^2 - 36x$$

$$f'(x) = 6x^2 + 6x - 36$$

$$f''(x) = 12x + 6$$

(a) Critical Point:

$$x = 2, -3$$

(b) Interval of f, increasing/decreasing $\longrightarrow (2)$

Interval	$f'(x)$	increasing/decreasing
$(-\infty, -3)$	+	increasing
$(-3, 2)$	$-ve$	decreasing
$(2, \infty)$	$+ve$	increasing

$\longrightarrow (2)$

(c) Local extrema :-

At $x = -3$

$\therefore f(-3) = 81$ (maximum) $\longrightarrow (2)$

At $x = 2$

$f(2) = -44$ (minimum) $\longrightarrow (2)$

(d) concavity Point :-

$$f''(x) = 0, \quad x = -\frac{1}{2} \longrightarrow (2)$$

$\therefore$ $Lf(0) \neq Rf(0)$

f is discontinuous $\longrightarrow$ (3)

At $x = 2$

$\quad Lf(2) = 0$, $Rf(2) = 0$

$\therefore Lf(2) = Rf(2)$

$\therefore f$ is continuous. $\longrightarrow$ (3)

14.b)i) Ans:

At $x = 2$

$\quad Lf(2) = 4C + 4$, $Rf(2) = 8 - 2C \longrightarrow (3+3)$

$\therefore Lf(2) = Rf(2)$

$\quad C = 2/3 \longrightarrow (2)$

ii) Ans:

$$\frac{dy}{dx} = 2x\,e^{2x}(x^2+1)^3 (x^3 + 5x^2 + x + 1) \longrightarrow (4)$$

$\therefore \frac{d}{dx}(uvw) = u'vw + uv'w + uvw' \longrightarrow (4)$

15. a)(i) Ans:-

$f(x) = 2x^3 + 3x^2 - 36x$

$f'(x) = 6x^2 + 6x - 36$

$\therefore f'(x) = 0$

$\therefore x = -3, 2$ (critical point) $\longrightarrow (2)$
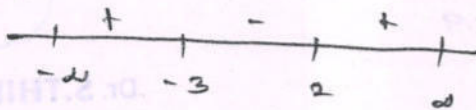
$\longrightarrow (2)$

Interval	$f'(x)$	Monotonicity
$(-\infty, -3)$	$+$	increasing
$(-3, 2)$	$-$	decreasing
$(2, \infty)$	$+$	increasing

At $x = -3$

$\quad \therefore f(-3) = 81 \longrightarrow (2)$

At $x = 2$

$\quad f(2) = -44 \longrightarrow (2)$

$\therefore$ L. Maximum : 81 , Local Minimum : -44

13.b i)

$y = 1+x \Rightarrow x: -2 \quad -3 \quad -4$ If $x < -1 \longrightarrow (2)$

$\qquad\qquad\qquad y: -1 \quad -2 \quad -3$

$y = x^2 \Rightarrow x: -1 \quad 0 \quad 1$ If $-1 \leq x \leq 1 \longrightarrow (2)$

$\qquad\qquad\quad y: 1 \quad 0 \quad 1$

$y = 2-x \Rightarrow x: 1 \quad 2 \quad 3$ If $x \geq 1 \longrightarrow (2)$

$\qquad\qquad\quad y: 1 \quad 0 \quad -1$

At $x = -1$

$\quad Lf(-1) \neq Rf(-1)$

At $x = 1$

$\quad Lf(1) = Rf(1)$

$\therefore$ F is continuous $\longrightarrow (2)$

14.a) i) Ans:

At $x = 2$

$\quad Lf(2) = 12, \qquad Rf(2) = 4a - 2b + 3$

$\quad \therefore Lf(2) = Rf(2) \longrightarrow (2)$

$\quad \therefore 4a - 2b = 9$

At $x = 3$

$\quad Lf(3) = 9a - 3b + 3, \qquad Rf(3) = b - 9 + b$

$\quad \therefore Lf(3) = Rf(3) \longrightarrow (2)$

$\quad \therefore 10a - 4b = 3$

$\quad \therefore a = -15/2, \quad b = -39/2 \longrightarrow (2)$

ii) Ans:

At $x = 0$

$\quad Lf(0) = 1, \quad Rf(0) = 2 \longrightarrow (2)$

$\therefore \quad f(A) = \begin{pmatrix} 8 & 5 & 5 \\ 0 & 3 & 0 \\ 5 & 5 & 8 \end{pmatrix} \longrightarrow (4)$

(ii)

$f(B) = -11 \begin{pmatrix} 6 & 5 & 5 \\ 0 & 1 & 0 \\ 5 & 5 & 6 \end{pmatrix} \longrightarrow (4)$

12. b)

C-R equation : $\lambda^3 - 12\lambda^2 + 36\lambda - 32 = 0 \longrightarrow (2)$

$\therefore$ Eigen value : $\lambda = 2, 2$ and $8 \longrightarrow (2)$

$\therefore$ Eigen vector : $x_1 = \begin{pmatrix} 2 \\ -1 \\ 1 \end{pmatrix}, x_2 = \begin{pmatrix} 1 \\ 0 \\ -2 \end{pmatrix}, x_3 = \begin{pmatrix} 1 \\ 2 \\ 0 \end{pmatrix} \longrightarrow (2)$

$P^{-1} = [P_{ij}] = \frac{1}{|P|} adj\ P = \frac{1}{12} \begin{bmatrix} 4 & -2 & 2 \\ 2 & -1 & -5 \\ 2 & 5 & 1 \end{bmatrix} \longrightarrow (4)$

$\therefore \quad D = P^{-1}AP = \begin{pmatrix} 8 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 2 \end{pmatrix} \longrightarrow (3+3)$

13.

$Q \cdot F = \begin{pmatrix} 6 & -2 & 2 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{pmatrix} = \begin{pmatrix} \text{co-eff } x_1^2 & \frac{1}{2}\text{co-eff } x_1 x_2 & \frac{1}{2}\text{co-eff } x_1 x_3 \\ \frac{1}{2}\text{co-eff } x_2 x_1 & \text{co-eff } x_2^2 & \frac{1}{2}\text{co-eff } x_2 x_3 \\ \frac{1}{2}\text{co-eff } x_3 x_1 & \frac{1}{2}\text{co-eff } x_3 x_2 & \text{co-eff } x_3^2 \end{pmatrix} \longrightarrow (2)$

$\therefore$ C-R. equation : $\lambda^3 - 12\lambda^2 + 36\lambda - 32 = 0 \longrightarrow (4)$

$\therefore$ Eigen value : $2, 2, 8 \longrightarrow (2)$

$\therefore$ Eigen vector : $x_1 = \begin{pmatrix} 2 \\ -1 \\ 1 \end{pmatrix}, x_2 = \begin{pmatrix} 0 \\ 1 \\ 1 \end{pmatrix}, x_3 = \begin{pmatrix} 1 \\ 1 \\ -1 \end{pmatrix} \longrightarrow (2)$

$N = \begin{pmatrix} \frac{2}{\sqrt{6}} & 0 & \frac{1}{\sqrt{3}} \\ \frac{-1}{\sqrt{6}} & \frac{1}{\sqrt{2}} & \frac{1}{\sqrt{3}} \\ \frac{1}{\sqrt{6}} & \frac{1}{\sqrt{2}} & \frac{-1}{\sqrt{3}} \end{pmatrix}, \quad N^T = \begin{pmatrix} \frac{2}{\sqrt{6}} & \frac{-1}{\sqrt{6}} & \frac{1}{\sqrt{6}} \\ 0 & \frac{1}{\sqrt{2}} & \frac{1}{\sqrt{2}} \\ \frac{1}{\sqrt{3}} & \frac{1}{\sqrt{3}} & \frac{-1}{\sqrt{3}} \end{pmatrix} \longrightarrow (2+2)$

$\therefore \quad D = N^T \cdot A N$

$D = \begin{pmatrix} 8 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 0 & 2 \end{pmatrix}$ and canonical form is $8y_1^2 + 2y_2^2 + 2y_3^2 \longrightarrow (3+3)$

PART - B

11.a) i) Ans:

C·R Equation : $\lambda^3 - c_1\lambda^2 + c_2\lambda - c_3 = 0 \longrightarrow (2)$

$c_1 = 6, \quad c_2 = 11, \quad c_3 = 6$

$\therefore \quad \lambda^3 - 6\lambda^2 + 11\lambda - 6 = 0 \longrightarrow (2)$

$\therefore$ The E·V = 1, 2 and 3 $\longrightarrow (2)$

$\therefore (A - \lambda I) X = 0$

$\therefore$ The E·vector. $\lambda_1 = \begin{pmatrix} 1 \\ -1 \\ 0 \end{pmatrix}, \quad x_2 = \begin{pmatrix} -2 \\ 1 \\ 2 \end{pmatrix}, \quad x_3 = \begin{pmatrix} -1 \\ 1 \\ 2 \end{pmatrix} \longrightarrow (2)$

(ii) Ans:

$\therefore \quad AX = \lambda X \longrightarrow (2)$

$\Rightarrow \quad \overline{X'} AX = \lambda \overline{X'}X \longrightarrow (2)$

Taking conjugate : $X' \overline{A} \overline{X} = \overline{\lambda} X' \overline{X} \longrightarrow (2)$

Hence $\overline{X'} AX = \lambda \overline{X'}X$ (Taking transpose)

$\therefore \lambda$ is real. $\longrightarrow (2)$

11.b) (i) Ans:

C.R. equation : $\lambda^3 - c_1\lambda^2 + c_2\lambda - c_3 = 0 \longrightarrow (2)$

$c_1 = 11, \quad c_2 = -4, \quad c_3 = -1 \longrightarrow (2)$

$\therefore \lambda^2 - 11\lambda^2 - 4\lambda + 1 = 0 \longrightarrow (3)$

$\therefore$ c·H· equation: $A^3 - 11A^2 - 4A + I = 0. \longrightarrow (2)$

$\therefore A^{-1} = -A^2 + 11A + 4I \longrightarrow (3)$

$A^{-1} = \begin{pmatrix} 134 & 250 & 310 \\ 250 & 454 & 560 \\ 310 & 560 & 196 \end{pmatrix} \longrightarrow (4)$

(2)a) i)

$\therefore$ C·R equation : $\lambda^3 - 5\lambda^2 + 7\lambda - 3 = 0 \longrightarrow (2)$

(i) $f(A) = (A^5 + A)(A^3 - 5A^2 + 7A - 3) + (A^2 + A + I) \longrightarrow (4)$

$\therefore f(A) = A^2 + A + I \longrightarrow (2)$

$$\lambda_3 = 6 - 5$$

$$\lambda_3 = 1 \quad \longrightarrow (1)$$

$$\therefore A^{-1} = \frac{1}{\lambda_1}, \frac{1}{\lambda_2}, \frac{1}{\lambda_3}$$

$$\therefore A^{-1} = \frac{1}{3}, \frac{1}{2}, 1 \quad \longrightarrow (2)$$

5. Ans:

Every square matrix satisfies its own Characterstic equation. $\longrightarrow (2)$

6. Ans:

$$3A + 2I = 3 \begin{pmatrix} 5 & 4 \\ 6 & 2 \end{pmatrix} + 2 \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$$

$$= \begin{pmatrix} 17 & 12 \\ 6 & 4 \end{pmatrix} \quad \longrightarrow (2)$$

7. Ans:

A Function f From a set A to a set B is a rule that assigns to each element $x \in A$ a unique element y in B. $\longrightarrow (2)$

8. Ans:

$$y' = 7x^6 + e^x \quad \longrightarrow (2)$$

9. Ans:

$$y' = 3x^2 - 12x - 5 \quad \longrightarrow (2)$$

$$y'' = 6x - 12$$

$$y''' = 6$$

10. Ans:

$$\frac{dy}{dx} = \frac{dy/dt}{dx/dt} \quad \longrightarrow (2)$$

$$\frac{dy}{dx} = t$$

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Internal Assessment Exam - I

MA3151 - MATRICES AND CALCULUS

2021-2022

PART- A

1.

Ans:

The characteristic equation

$$\lambda^2 - c_1 \lambda + c_2 = 0, \quad c_1 = -3, \quad c_2 = -6 \longrightarrow (1)$$

∴ eigen value $\lambda = -3, 2 \longrightarrow (1)$

2.

Ans!

Sum of E·V = 10 $\longrightarrow (1)$

Product of E·V = -6 $\longrightarrow (1)$

3.

Ans!

C-R equation : $\lambda^2 - c_1 x + c_2 = 0$, $c_1 = 8$, $c_2 = 14$

∴ $\lambda^2 - 8\lambda + 14 = 0 \longrightarrow (1)$

∴ The C.H. equation : $A^2 - 8A + 14A = 0 \longrightarrow (2)$

4.

Ans:

Let $\lambda_1 = 3$, $\lambda_2 = 2$, $\lambda_3 = ?$

Sum of e·4 = $\lambda_1 + \lambda_2 + \lambda_3 = 1 + 2 + 3$

$3 + 2 + \lambda_3 = 6$

Part - C (1×14 = 14 marks)

13) a) Seismograph :-

Instrument used to measure record the motions of a earth's surface caused by seismic waves as a function of time. ———— (4)

Parts :-

1) clock
2) Sensor
3) recorder   ———— (5)
4) chart
5) Electronic amplifier.

Seismographs often employ three Sensor, recording in each of the north - South, east - west & vertical (up & Down directions). ———— (4)

13) b) Koyna earthquake of 1967 :   ———— (4)

Magnitude - 6.5

Bihar - Nepal earthquake of 1988 :-

Magnitude - 6.6

RC structure much damaged.

Jabalpur earthquake 1997 :-

RC fame buildings with open 1st storey were damaged due to failure of Ground storey columns. ———— (4)

Sikkim earthquake 2006 :-

Cause Damage to both masonry as well as reinforced concrete buildings. ———— (4)

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12)a)
$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1.5 & 0 \\ 0 & 0 & 2 \end{bmatrix} \begin{bmatrix} \ddot{x}_1 \\ \ddot{x}_2 \\ \ddot{x}_3 \end{bmatrix} + \begin{bmatrix} 600 & -600 & 0 \\ -600 & 1800 & -1200 \\ 0 & -1200 & 3000 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = 0 \qquad (4)$$

$$\omega_1 = 14.5 \text{ rad/s}$$
$$\omega_2 = 31.1 \text{ rad/s}$$
$$\omega_3 = 46.1 \text{ rad/s} \qquad (4)$$

$$\phi_1 = \left\{ \begin{array}{c} 1 \\ 0.644 \\ 0.30 \end{array} \right\}$$

$$\phi_2 = \left\{ \begin{array}{c} 1 \\ -0.601 \\ -0.676 \end{array} \right\}$$
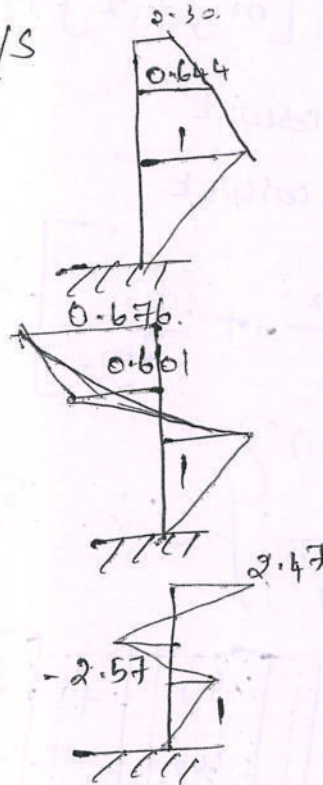
$$\phi_3 = \left\{ \begin{array}{c} 1 \\ -2.57 \\ 2.47 \end{array} \right\} \qquad (5)$$

12)b) Logarithmic Decrement Method :-

$$\delta = \ln \frac{x_1}{x_2} \qquad (4)$$

Amplitude $x_0 = x e^{-\beta \omega_n t}$

$$\delta = \frac{2\pi \beta}{\sqrt{1-\beta^2}} \qquad (4)$$

$$\delta = 2\pi \beta$$

$$x_n = x_0 e^{-n\delta} \qquad (2)$$

Half power Bandwidth method:

TO determine the β damping ratio from

frequency domain. _____ (3)

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$$\begin{bmatrix} m_1 & 0 \\ 0 & m_2 \end{bmatrix} \begin{bmatrix} \ddot{x}_1 \\ \ddot{x}_2 \end{bmatrix} + \begin{bmatrix} k_1+k_2 & -k_2 \\ -k_2 & k_2 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = 0.$$

Mass matrix   Stiffness matrix   (3)

characteristic equation is

$$[m][\ddot{x}] + [k][x] = 0.$$

$$x_1 = X_1 \cos \omega_n t$$
$$x_2 = X_2 \cos \omega_n t \hspace{4cm} (4)$$

$$R_{1,2} = \left[\frac{k_1+k_2}{2m_1} + \frac{k_2}{2m_2} \right] + \left\{ \frac{1}{4} \left[\frac{k_1+k_2}{m_1} + \frac{k_2}{m_2} \right] - \frac{k_1 k_2}{m_1 m_2} \right\}^{1/2}$$

$$\hspace{12cm} (2)$$

$$S_1 = \left\{ \frac{X_2^{(1)}}{X_1^{(1)}} \right\} \quad ; \quad S_2 = \left\{ \frac{X_2^{(2)}}{X_1^{(2)}} \right\}$$

11) b)

$$\begin{bmatrix} m/4 & 0 \\ 0 & m/2 \end{bmatrix} \begin{bmatrix} \ddot{u}_1 \\ \ddot{u}_2 \end{bmatrix} + \begin{bmatrix} k & -k \\ -k & 2k \end{bmatrix} \begin{bmatrix} u_1 \\ u_2 \end{bmatrix} = 0. \hspace{2cm} (4)$$

$$\omega_1 = \frac{1.53}{L} \sqrt{\frac{E}{\rho}}$$

$$\hspace{12cm} (4)$$

$$\omega_2 = \frac{3.695}{L} \sqrt{\frac{E}{\rho}}$$

Mode Shape $\phi_1 = \left\{ \begin{array}{c} 1 \\ 0.707 \end{array} \right\}$

1st Mode

Mode Shape $\phi_2 = \left\{ \begin{array}{c} 1 \\ -0.707 \end{array} \right\}$ (5)

2nd Mode
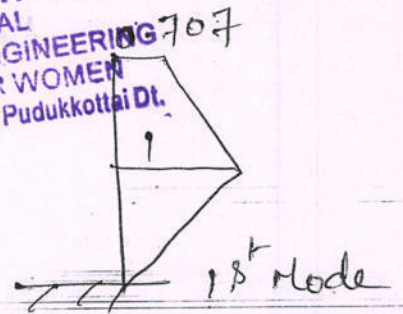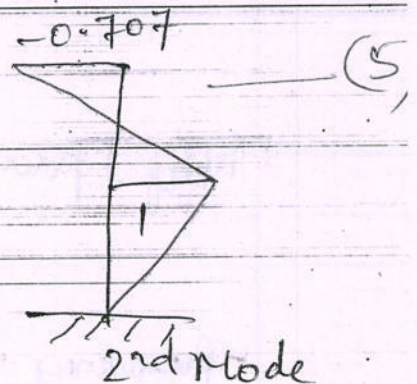
6)   Process of uncoupling the coupled differential equation is called decoupling of equations.   (2)

7)   It is defined as the time required to complete one cycle of free vibration.

    Frequency is the no. of cycles per unit time.   (2)

8)   It is a graphical representation of the relative amplitudes of the two coordinates & their phase angle relationship   (2)

9)   The System which requires two independent coordinates To describe the motion completely called two degree of freedom System.   (2)

10)   It is a starting pt for understanding the forces within the earth that cause earthquakes.   (2)

$$Part - B \ (2 \times 13 = 26)$$
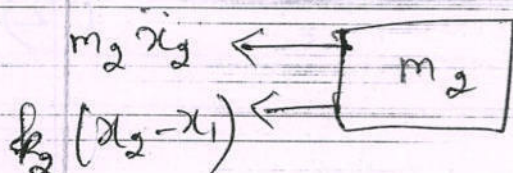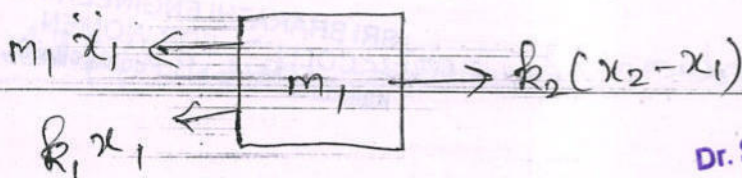
11) a)

$$m_1 \ddot{x}_1 \leftarrow \boxed{m_1} \rightarrow k_2(x_2 - x_1)$$

$$k_1 x_1 \leftarrow$$

$$m_2 \ddot{x}_2 \leftarrow \boxed{m_2}$$

$$k_2(x_2 - x_1) \leftarrow$$

    (4)

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BE - civil Engineering / IV year - VIII semester

CE 8021 - Structural Dynamics & Earthquake Engineering

Part - A (10×2 = 20 marks)

21-22
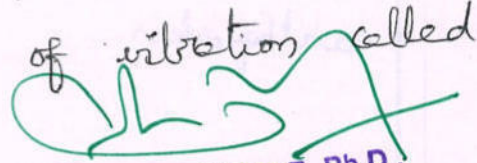
1)   Focus is the location within the earth where fault rupture actually occurs whereas the epicentre is the location on the surface above the focus.   — (2)

2)   June 16, 1819   8.3   Kutch

       June 12, 1897   8.7   Assam

       April 4, 1905   8.6   Kangra   (2)

       Dec 26, 2004   9.0   Sumatra

3) Seismograms are the records produced by seismographs used to calculate the location & magnitude of an earthquake.   (2)

4)   Lowest frequency of vibration called fundamental frequency.   (2)

       Corresponding displacement shape of vibration called fundamental mode of vibration.

5) Stiffness due to columns & inertia due to slabs are considered.

No Joint rotations in Structure.   (2)

$$I = (V_1 - V_2) / (R_1 + R_{gain} + R_1) \rightarrow \textcircled{1}$$

$$I = (V_1 - V_2) / (2R_1 + R_{gain}) \rightarrow \textcircled{2}$$

$$V_{out} = (R_3 / R_2)(V_1 - V_2)$$

$$(V_1 - V_2) = (R_3 / R_2) V_{out}.$$

13b) JFET operational amplifier:- $\rightarrow \boxed{14m}$.

↳ Well matched high voltage JFET on the same chip with standard bipolar transistors.

$\rightarrow$ High Impedence.

$\rightarrow$ Fast D/A and A/D converters.

Features:

$\rightarrow$ Internally trimmed offset voltage

$\rightarrow$ Low Input Bias current

$\rightarrow$ Wide gain Bandwidth.

12
b) Non-Inverting amplifier :— $\longrightarrow$ (13m)
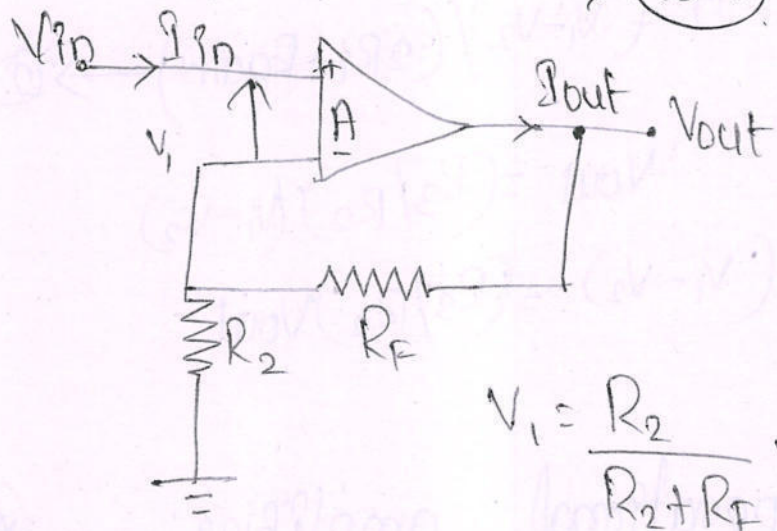
$$V_1 = \frac{R_2}{R_2 + R_F} \times V_{out}$$

$$V_1 = V_{IN}$$

voltage gain A_V is equal $= \dfrac{V_{out}}{V_{in}}$

$$A_V = \frac{V_{out}}{V_{in}} = \frac{R_2 + R_F}{R_2}$$

$$A_V = \frac{V_{out}}{V_{in}} = 1 + \frac{R_F}{R_2}$$

Part-C

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13)
a) Instrumentation amplifier :— $\longrightarrow$ (14m)

$\hookrightarrow$ Amplifying the low level output

signal · It eliminates the noise & Interference.
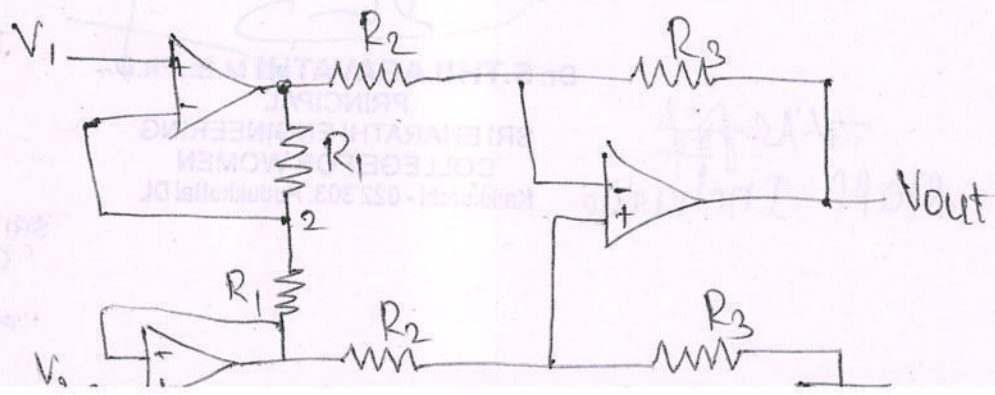
11b) AC characteristics of Op-amp :— → (13m)

$$A_{OL}(f) = V_0/v_{in} \text{ if } V_f = 0 \rightarrow ①$$

$A_{OL}(f) \rightarrow$ open loop volt gain

$$A_F = V_0/v_{in}.$$

$$V_0/v_{in} = A_{OL}/(1+(A_{OL}) \rightarrow ②$$

→ Input bias current → I/p offset current

→ Input offset voltage → Thermal drift.

12)
a) Inverting amplifier :— → (13m)

⎿→ which produce an output which

is out of phase with respect to input by
$180°$

$$V_i - V_1 = I_i R_i$$

$$V_1 - V_0 = I_f R_f$$
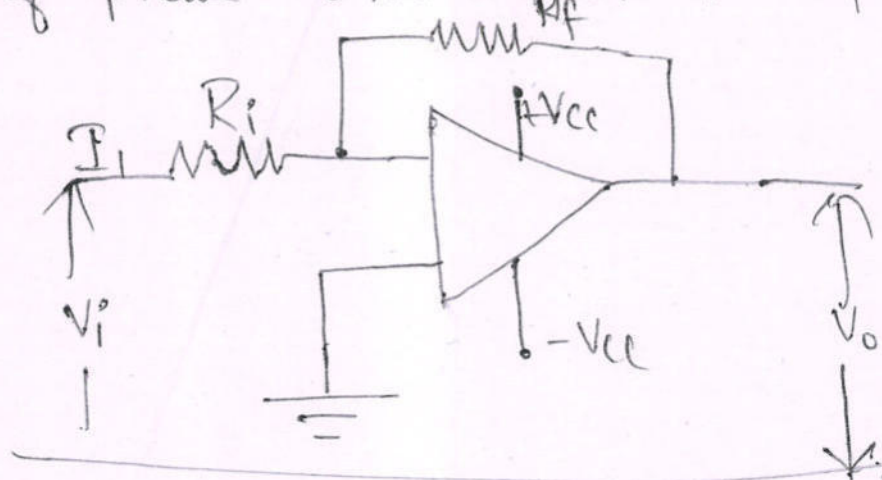
$$\boxed{A_V = -\dfrac{R_f}{R_i}}$$

$$-\dfrac{V_0}{V_i} = \dfrac{I_f R_f}{I_f R_f} \Rightarrow \dfrac{V_0}{V_i} = \dfrac{-I_f R_f}{I_f R_i}$$

7) Define slew rate :→ (2m)

↳ change of voltage (or) current any

other electrical quantity.

8) Pin configuration of IC741 :→ (2m)

off set⊣8   4→ Negative voltage.

output⊣7   IC741   3→ Non inverting

+Vcc 6   2→ Inverting

off set Null 5   1→ Gnd
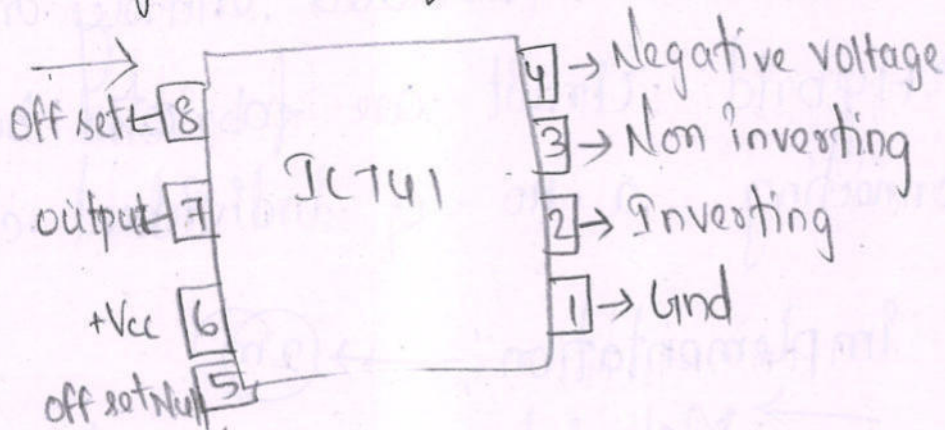
9) Lithography :→ (2m)

↳ planographic printmaking process.

10) CMRR :→ (2m)

→ Ratio of the powers of the differential

gain over the common mode gain.

Part - B

11. a) DC characteristics of op-amp :→ (13m)

→ which may be made of BJT (or) FET

ideal op-amp.

→ $V_0 = V_2 - V_1$ → ①

$I_B' = V_1/R_{comp}$ → ②

$I_1 = V_1/R_1$ → ③ $I_2 = V_1/R_f$ → ⑤

$I_2 = V_2/R_f$ → ④

Part-A.

1) Differentiate b/w monolithic IC & hybrid IC → 2m
   → Which are fabricated entirely on single chips
   → Hybrid circuit are fabricated by inter
   - connecting a no of individual chips.

2) Ion implementation: → 2m
   → Material surface Modification process

3) Configuration of diff amplifier: → 2m
   ↳ Dual I/P and balanced O/P
   → Dual I/P & unbalanced O/P

4) IC :- → 2m
   → small piece of semiconducting material.

5) characteristics of op-amp: → 2m
   → $G = V_{out}/V_{in}$
   → zero input offset voltage.

6) popular IC packages :- → 2m
   ↳ surface mount technology
   → Pin grid array.
   → Quad flat packages.

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DEPARTMENT OF SCIENCE AND HUMANITIES
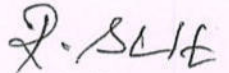
HS8251 TECHNICAL ENGLISH

CYCLE TEST I

ANSWER KEY

2020-21

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
b	c	a	c	b	a	b	a	b	b	a	b	c	b	a	b	d	c	a	c
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
c	a	b	a	b	c	a	d	d	a	c	b	c	b	a	d	d	c	b	c
41	42	43	44	45															
a	a	b	d	a															

Course Faculty

(Name /Sign / Date)

HoD

(Name /Sign / Date)

[R-SARATH]

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2020-21.

ANSWER KEY

SL.NO	ANSWER	SL.NO	ANSWER	SL.NO	ANSWER	SL.NO	ANSWER	SL.NO	ANSWER
1.	A	11.	B	21.	A	31.	C	41.	C
2.	C	12.	C	22.	B	32.	C	42.	D
3.	C	13.	D	23.	A	33.	B	43.	C
4.	D	14.	C	24.	D	34.	B	44.	D
5.	A	15.	B	25.	C	35.	B	45.	D
6.	B	16.	A	26.	A	36.	B		
7.	A	17.	A	27.	C	37.	C		
8.	B	18.	C	28.	D	38.	C		
9.	A	19.	A	29.	A	39.	B		
10.	B	20.	B	30.	A	40.	A		

Dr. S.THILAGAVATHI M.E., Ph.D.,
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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India
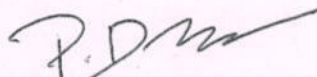
DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020 – 2021 (ODD SEMESTER)
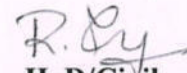
CE8591 - FOUNDATION ENGINEERING

ANSWER KEY FOR CYCLE TEST-II

QN	ANSWER	QN	ANSWER	QN	ANSWER	QN	ANSWER	QN	ANSWER
1	B	11	B	21	C	31	D	41	A
2	B	12	D	22	C	32	A	42	A
3	B	13	C	23	B	33	A	43	A
4	B	14	B	24	A	34	B	44	B
5	A	15	A	25	B	35	C	45	B
6	D	16	A	26	B	36	A		
7	C	17	B	27	A	37	C		
8	D	18	C	28	C	38	C		
9	A	19	A	29	B	39	C		
10	D	20	C	30	B	40	A		

Course Faculty

HoD/Civil

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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Kaikkuruchi, Pudukkottai- 622 303.

Email: sribharathienggcollege@gmail.com   Website: www.sbec.edu.in

20 -21
LE8401

Department of Electrical and Electronics Engineering

ANSWER KEY

Q NO	ANSWER	Q NO	ANSWER	Q NO	ANSWER	Q NO	ANSWER	Q NO	ANSWER
1	C	10	C	19	A	28	A	37	A
2	D	11	A	20	A	29	B	38	B
3	B	12	D	21	D	30	D	39	C
4	B	13	B	22	C	31	A	40	A
5	C	14	C	23	B	32	B	41	A
6	A	15	B	24	A	33	C	42	B
7	C	16	C	25	A	34	A	43	C
8	C	17	C	26	A	35	B	44	C
9	C	18	B	27	B	36	C	45	A

A·Primrose.

Course Faculty
A·PRIMROSE
(Name /Sign / Date)

HoD
B·PRIYA
(Name /Sign / Date)

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COLLEGE FOR WOMEN
KAIKKURICHI.
PUDUKKOTTAI - ᵒ   ᵓ.

13)

b) lap Joint

$b = 120mm$

$t = 16 \, \& \, 12mm.$

Design load $= 160kN$

Fe410.

To find :- Design of lap Joint

Solution :-

1) shear strength :-

$$V_{dsb} = \frac{fub}{\sqrt{3}} \frac{(n_n A_{nb} + n_s A_{sb})}{\gamma_{mb}}$$

$n_n = 1$ $n_s = 0$

$A_{nb} = 245.04 mm^2$ $A_{sb} = \frac{\pi \times 20^2}{4} = 314.15 mm^2$

$V_{dsb} = 45.27 kN$

2) Bearing strength :-

$$V_{dpb} = \frac{2.5 k_b \, dt \, fu}{\gamma_{mb}} = \frac{2.5 \times 0.50 \times 20 \times 12 \times 410}{1.25}$$

$k_b = 0.50$ $= 98.4 kN.$

strength of connection $= 45.27 kN$

3) number of Bolt :   ∅ $n = \dfrac{Design\ load}{strength\ of\ connection}$ — (2)

$n = \dfrac{160}{45.27} = 3.5 = 4 nos$

Part-C

13)
a) Size of plate = 220 × 10mm

$d = 20mm$

4.6 grade of Bolt

lap joint

load = 300kN

plate grade ⟹ Fe 410.

TO find:- Design the connection.

Solution:-

1) shear capacity of Bolt:-

$$Vdsb = \frac{tub}{\sqrt{3}} \frac{(nnAnb + nsAsb)}{\gamma_{mb}}$$

$nn = 1$

$Anb = 0.78 \frac{\Pi \times 20^2}{4} = 245.04 mm^2$

$$Vdsb = \frac{400}{\sqrt{3}} \frac{[245.04 + 0]}{1.25} = 45.271 kN$$

2) Bearing capacity of Bolt:-

$$Vdpb = \frac{2.5 kb \, d t \, tu}{\gamma_{mb}}$$

$$kb = \frac{e}{3do}, \frac{P}{3do} - 0.25, \frac{tub}{ty}, 1.0$$

$P = 2.5d = 2.5(20) = 50$

$e = 2.5do = 1.5(22) = 33$

$kb = 0.5, 0.507, 0.975, 1.0 ⟹ 0.5$

$$Vdpb = \frac{2.5 \times 0.5 \times 20 \times 10 \times 410}{1.25} = 82kN.$$

∴ Srgth of Bolt = 45.27 kN

3). number of Bolt:- $n = \frac{300}{45.27} = 6.6 = 8 \, nos,$

12)
a) Advantage of steel as a structural material:-

 i) speed of construction

 ii) safety

 iii) sustainability

 iv) flexibility

 v) High strength

 vi) steel is lightweight

 vii) cost savings

 viii) Ductility

 ix) Durability

 x) Fatigue strgth

 xi) Easy fabrication

 xii) Efficient

 xiii) fire resistance

 xiv) Recyclable

      — (13)

12)
b) Types of loads on structures:-   — (T)

 i) Dead load : permanent load - IS 875 Part 1

 ii) Imposed loads : live load, crane load
       snow load, dust load, wave load
       earth pressure) - IS 875 Part 3

 iii) wind loads - IS 875 part 3

 iv) Earthquake loads - IS 1893 Part 1

 v) Erection load - during erection.

 vi) Erection load:-

          — (b)

load combinations:-

 a) DL + IL   DL = Dead load

 b) DL + IL + WL/EL IL = Imposed load

 c) DL + WL/EL   EL = Earthquake load.

 d) DL + Erection load

11)
b) hot rolled section :- — (3)

steel that has been roil-pressed at very
high-temperature.

Different forms of rolled steel section :-

1) Rolled Angle section :- — (2)
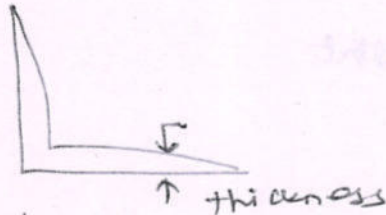
↑ thickness

2) Rolled channel section :- — (2)

thickness of web
thickness of flange
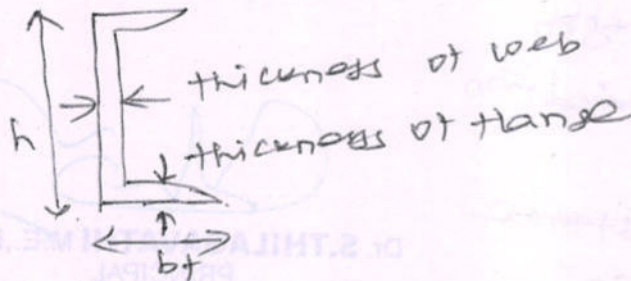
3) Rolled I-section :- — (2)
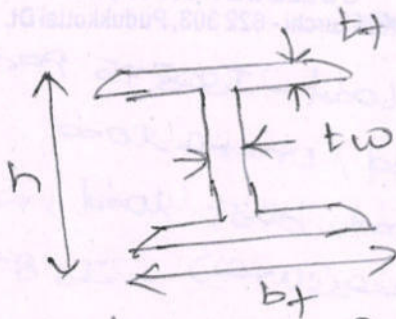
t_f = thickness of flange

t_w = thickness of web

b_f = width of flange

h = overall depth

4) Rolled T-sections :- — (2)
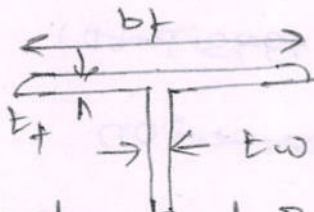
5) Rolled Round Bars :- — (2)
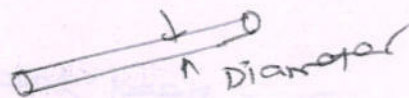
↑ Diameter

8) Efficiency of Bolted connection:-

Efficiency of Bolted connection is 50%.
because the reduction of area of member.

9) use of lug angle:-
To reduce the length of connection to the gusset plate. and to reduce shear lag effect.

10) Tension splice:
The peak tension force that can be transferred b/w the spliced bars through the bond action.

PART-B

11)
a) partial safety factors for loads w.r.t strength & serviceability -(10)

Combination	Strength					Serviceability			
	DL	LL		NL/EL	AL	DL	LL		NL/EL
		Leading	Accompanying				Leading	Accompanying	
DL+LL+CL	1.5	1.5	1.05	—	—	1.0	1.0	1.0	—
DL+LL+CL+ NL/EL	1.2 1.2	1.2 1.2	1.05 0.53	0.6 1.2	— —	1.0 —	0.8 —	0.8 —	0.8 —
DL + NL/EL	1.5	—	—	1.5	—	1.0	—	—	1.0
DL + ER	1.2	1.2	—	—	—	—	—	—	—
DL+LL+AL	1.0	0.35	0.35	—	1.0	—	—	—	—

partial safety factor for material: - (3)
Steel = 1.15
Concrete = 1.5

CYCLE TEST - I
DESIGN OF STEEL STRUCTURAL ELEMENTS
Ans Key
19-20

PART - A

1) minimum pitch [IS 800:2007]: 2.5 times the nominal diameter of Bolt

2) Allowable deflection of purlins and girts for Elastic cladding: span/150

3) All imposed loads are gravity loads :-
Gravity forces that are not steady like the dead loads, keep on clansiro position. so all gravito load imposed loads are gravity load

4. composite construction:
TWO different materials bound together & act as a single unit.

5. stress strain curve for mild steel :-
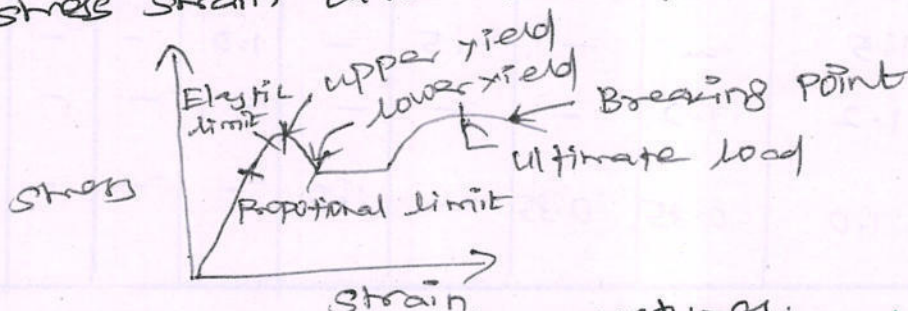
6) Advantages of steel structures :-
   i) speed construction
   ii) safety
   iii) Adaptability
   iv) Ductility

7) Ductility of steel is measure: Determining the percent of elongation & the percent reduction of area during a tensile test.

$y_1(n) = x_1(n) ⓝ h(n)$

$y(n) = \{3, 2, 2, 0, 4, 6, 5, 3, 3, 4, 3, 1\}$.

ii) Overlap add method:-

$x(n) = \{3, -1, 0, 1, 3, 2, 0, 1, 2, 1\}$.

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

$y_1(n) = x_1(n) ⓝ h(n)$

$y(n) = \{3, 2, 2, 0, 4, 6, 5, 3, 3, 4, 3, 1\}$.

<u>part-c</u>

13 i) Design steps of analog Butterworth filter.

$$N = \dfrac{\log\sqrt{\dfrac{10^{0.1\alpha_s} - 1}{10^{0.1\alpha_p} - 1}}}{\log\dfrac{\Omega_s}{\Omega_p}}.$$

$$N \geq \dfrac{\log \frac{1}{2}}{\log \frac{\Omega_s}{\Omega_p}}.$$

$$N \geq \dfrac{\log A}{\log \frac{1}{K}}.$$

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

$$H(s) = \dfrac{1}{\left(\dfrac{s}{\Omega_c} + 1\right)\left(\dfrac{s}{\Omega_c}\right)^2 + \left(\dfrac{s}{\Omega_c}\right) + 1}$$

Design steps of Chebyshev filter.

$$N \geq \frac{\log\sqrt{\dfrac{10^{0.1\alpha s}-1}{10^{0.1\alpha p}-1}}}{\log\dfrac{\Omega s}{\Omega p}} \qquad\qquad N \geq \frac{\log A}{\log \frac{1}{k}}$$

$$M = \mathcal{E}^{-1} + \sqrt{\mathcal{E}^{-2}+1} \qquad \mathcal{E} = \sqrt{10^{0.1\alpha p}-1}$$

$$\phi_k = \frac{\pi}{2} + \left(\frac{2k-1}{2N}\right)\pi.$$

ii) Given:-

$$\alpha_p = -2dB \qquad \alpha_s = -10dB \qquad \Omega p = 20 \, r/\mathsf{Q}$$

$$\Omega s = 30 \, r/s.$$

$$N = \frac{\log\sqrt{\dfrac{10^{0.1\alpha s}-1}{10^{0.1\alpha p}-1}}}{\log\dfrac{\Omega s}{\Omega p}} \qquad\qquad N \geq 3.37.$$

$$\boxed{N = 4.}$$

$$\Omega_c = 21.386$$

$$H(s) = \frac{0.20921 \times 10^{6}}{(s^2 + 16.821s + 457.39)(s^2 + 39.516s + 457.39)}$$

Staff Incharge

HOD sign.

$$y(n) = \{8, -2, -1, -4, -1\}.$$

11)b) Find DFT sequence $x(n) = 1$ for $0 \leq n \leq 2=0$

Otherwise $N = 4$.

$$N = 4 \qquad x(k) = \sum_{n=0}^{N-1} x(n) \, e^{-j\frac{2\pi}{4}kn}, \qquad 0 \leq k \leq N-1$$

$$x(k) = \sum_{n=0}^{3} x(n) \, e^{-j\frac{2\pi}{4}kn} \qquad 0 \leq k \leq 3$$

$$k = 0$$

$$x(n) = 1 + [1 \times 1] + [1 \times 1] + [0 \times 1].$$

$$x(0) = 3.$$

Magnitude: $|x(k)| = \{3, 1, 1, 1\}$

phase: $\underline{\angle a(k)} = \left\{0, -\frac{\pi}{2}, 0, \frac{\pi}{2}\right\}.$

2)a) $\quad x(n) = \{3, -1, 0, 1, 3, 2, 0, 1, 2, 1\}$

using Overlap save method & overlap add Method.

The Length of $h(n) = M = 3$.

ii) Overlap save Method:-

$$x_1(n) = \{0, 0, 3, -1, 0\} \qquad x_3(n) = \{3, 2, 6, 1, 2\}$$

$$x_2(n) = \{-1, 0, 1, 3, 2\} \qquad x_4(n) = \{1, 2, 1, 0, 0\}$$

$$y(n) = x(n) \,\textcircled{N}\, h(n)$$

9) Analog Filter	Digital Filter
→ construct active and passive components of electronic components	→ Adder, Multiplier, and delay unit.
→ Differential Equation	Difference equation

10) Steps for impulse invariance method:-

$$H(z) = \sum_{n=0}^{\infty} h(n) z^{-n}.$$

$$Ha(s) = \sum_{k=1}^{N} \frac{C_k}{S - P_k}.$$

i) Find Ha(s) transfer function ii) Select the sampling rate.

part-B.

11) a) $x_1(n) = \{1, -1, -2, 3, -1\}$.

$x_2(n) = \{1, 2, 3\}$.

$x_1(n) =$ counter clockwise direction.

$x_2(n) -$ clockwise direction.

$x_2(n) = \{1, 2, 3, 0, 0\}$.

$y(n) = x_2(n) \circledN x_1(n)$

$$= \begin{bmatrix} 1 & 0 & 0 & 3 & 2 \\ 2 & 1 & 0 & 0 & 3 \\ 0 & 0 & 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} 1 \\ -1 \\ -2 \end{bmatrix}$$

6. | Butter worth Filter | Chebyshev Filter.

→ Normalized magnitude response value $1/\sqrt{2}$.

Normalized magnitude response $1/\sqrt{1+\epsilon^2}$.

→ poles lies in s-plane.

poles lies in ellipse in s plane

7. Different methods:-

→ Low pass Filter, High pass Filter,

→ Bandpass Filter Bandstop Filter.

8. Advantage & disadvantages:-

1) Digital Filter → Linear phase response

Disadvantages:-

→ speed limitation, Finite word length effect.

9. Denominator polynomials:-

i) $1+S$ ii) $1+1.414S+S^2$ iii) $(1+S)(1+S+S^2)$

$(1+0.765S+S^2)(1+1.848S+S^2)$.

EC8553 - Discrete Time signal processing.

1) Decimation In frequency algorithm:- $\quad$ 19-20

$\rightarrow$ DIF N point DFT is splitted into N/2 points.

$\quad X(K)$ is splitted K (even) & K odd.

2) Advantages:-

$\quad FFT \rightarrow N \log N \qquad DFT \hat{N^2}$

$FFT \rightarrow$ Audio signal $\qquad$ DFT has less speed
$\qquad\qquad$ processing.

3) periodicity properties:-

$\quad\rightarrow$ Discret sequence $x(n)$ is periodic with a period N.

$\quad\quad\rightarrow$ N point DFT of the sequence $x(k)$.

$\quad$ where $k = 0, 1, 2 \ldots N-1$.

4. Multiply with factor of $1/N$ and replace the twiddle factor.

$\rightarrow$ conjugate DIF algorithm

5. Bilinear transform equation.

$\quad$ s plane $\sigma = 0$ and $-\infty < \Omega < \infty$.

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Cycle Test Answer Booklet

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle Test Answer Book

Name	Praveena. M			Year/ Semester	III/IV
Reg No.	912616103004	Date/Session	28·07·18/AN	Department	CIVIL
Course code	CE 6504	Course Title	Highway Engineering		
Cycle Test (Put a tick mark)	CT 1 ✓		CT 2 ☐	CT 3 ☐ Model ☐	
Name and Signature of the Invigilator with date				28/7/18 (M·SATHYA, AP/ECE)	

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C					Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks	
1	✓	2	11	✓	12			12
2	✓	2	12	✓	11			11
3	✓	2	13	Part C				
4	✓	1	14	✓	10			10
5	✓	2	15					
6	✓	2	16					
7	✓	1				Total		32 33
8								
9			45 Forty Five		S. Vinni 30/7/18 S. Vetrivel			
10			44 50					
Total		12	Grand Total		Name and Signature of the Examiner with date			

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	34	16	–	–	–	–	50
Marks Obtained	30	14	–	–	–	–	44

IQAC Audit - Remarks

Total mistake was found and.
Correct mark entered in consolidated
Mark statement

P-SUBHA

Name and Signature
of the IQAC member

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle Test Answer Book

Name	SELSIYA.R			Year/ Semester	Ⅱ/Ⅲ
Reg No.	912617105005	Date/Session	01/08/18 /AN	Department	EEE
Course code	EE8391	Course Title	Electromagnetic Theory		
Cycle Test	CT 1 ☑	CT 2 ☐	CT 3 ☐	Model ☐	

Name and Signature of the Invigilator with date	Shri 01/08/18 (RAMESH RAJA.S)

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C						Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks		Total Marks
1	✓	2	11	✓	12				12
2	✓	2	12			✓	12		12
3	✓	2	13	✓	10				10
4	✓	0	14						
5	✓	2	15						
6	✓	1	16						
7	✓	1			Grand Total		34		
8									
9			88		A. Barth 2/8/18 (Mr. ABDUL				
10					BASEETH.A				
Total		10	Grand Total		Name and Signature of the Examiner with date				

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	34	16					50
Marks Obtained	30	14					44

IQAC Audit - Remarks

P.SUBHA

Name and Signature of the IQAC member

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle Test Answer Book

Name	S. SIVARUBINI			Year/ Semester	III / V
Reg No.	912616106014	Date/Session	08.09.18/AN	Department	ECE
Course code	EC6503	Course Title	Transmission Lines & waveguides		

Cycle Test (Put a tick mark)	CT 1 ☐	CT 2 ☑	CT 3 ☐	Model ☐

Name and Signature of the Invigilator with date — P.D ⸻ 8/9/18 [P. Dennis flora, AP(civil)]

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C					
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks	Total Marks
1		2	8/11		12			12
2		2	9/12				13	13
3		2	10/13		10			10
4		2	14					
5		2	15					
6		2	16					
7		2					Total	35
8								
9								
10								
Total		14	Grand Total	49/50				

Name and Signature of the Examiner with date — M. SAPIYA

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	–	–	33	–	17	–	50
Marks Obtained	–	–	32	–	17	–	49

IQAC Audit - Remarks

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Kaikkurchi - 622 303, Pudukkottai Dt.

P. SUBHA

Name and Signature
of the IQAC member

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle Test Answer Book

Name	NIVETHA·M			Year/ Semester/Section	I/I/A
Batch No.	912618104020	Date/Session	31.10.2018	Department:	CSE
Course code	CY8151	Course Title	Engineering Chemistry		

Internal Assessment Test	IAT 1	☐	IAT 2	☑	IAT 3	☐	Model	☐

Name and Signature of the Invigilator with date   S·B✦ 31/10/8 [S·RENVULADEVI]

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C						Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks		
1	✓	2	11	✓	13				13
2	✓	2	12			✓	12		12
3	✓	2	13						
4	✓	0	14						
5	✓	2	15						
6	✓	0	16						
7	✓	2					Total	25	
8	✓	2							
9	✓	0							
10	✓	0		37			Name and Signature		
Total		12		Grand Total			of the Examiner with date		

of examiner signature: ✦1/11/2018 [T·ANNALAK SHMI]

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted		24	26				50
Marks Obtained		19	18				37

IQAC Audit Remarks

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[D. SUBHA]

Name and Signature
of the IQAC member

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle Test Answer Book

Name	R. ATSHAYA			Year/ Semester	III/V
Reg No.	912617106003	Date/Session	24.7.19/FN	Department	ECE
Course code	EC8553	Course Title	Discrete time signal processing		
Cycle Test (Put a tick mark)		CT 1 ☑	CT 2 ☐	CT 3 ☐	Model ☐
Name and Signature of the Invigilator with date		P. Dennis Flora, AP/CIve			

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C					Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks	
1		2	11				12	12
2		2	12		12			12
3		1	13		13			13
4		2	14					
5		1	15					
6		2	16					
7		2				Total		37
8		1						
9		2			54/60			
10		2						
Total		17	Grand Total			Name and Signature of the Examiner with date		

Examiner: 26/7/19 [S. UDHAYANAN, AP/ECE]

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	30	30					60
Marks Obtained	28	26					54

IQAC Audit - Remarks

Dr. S.THILAGAVATHI M.E.,Ph.D.,
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COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt,

P. SUBHA

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India
Cycle Test Answer Book

Name	S. Gulnas Jathima			Year/ Semester	I/I
Reg No.	912619104009	Date/Session	11.09.2019/FN	Department	CSE
Course code	MA8151	Course Title	Engineering mathematics I		
Cycle Test (Put a tick mark)	CT 1 ☑	CT 2 ☐	CT 3 ☐	Model ☐	
Name and Signature of the Invigilator with date			-V.10... 11/9/19 [V. NITHYA POORANI /AP/ECE]		

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C						Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks		Total Marks
1	✓	2	11			✓	7+8		15
2	✓	1	12	✓	8+7				15
3	✓	2	13	✓	8				08
4	✓	1	14						
5	✓	1	15						
6	✓	2	16						
7	✓	1				Grand Total			38
8	✓	2							
9	✓	2				✓ 11/9/19 [R. DIVYA]			
10	✓	1		53					
Total		15	Grand Total			Name and Signature of the Examiner with date			

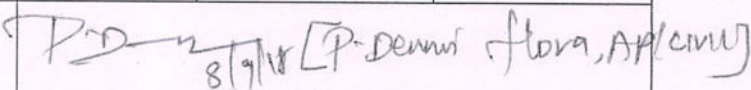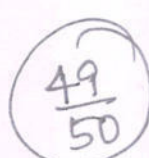| To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	42	18					60
Marks Obtained	37	16					53

IQAC Audit - Remarks

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Cycle Test Answer Book

Name	NISHA K				Year/ Semester	II / III
Reg No.	912618105005	Date/Session	12.10.19/FN	Department		EEE
Course code	EE8351	Course Title	Digital Logic circuits			
Cycle Test		CT 1 ☐	CT 2 ☐	CT 3 ☑	Model ☐	
Name and Signature of the Invigilator with date			Shri 12/10/19 [RAMESH RAJA .S]			

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C						Total Marks
Q. No.	✓	Marks	Q. NO.	✓	**a** Marks	✓	**b** Marks		Total Marks
1	✓	2	11	✓	12				12
2	✓	2	12			✓	12		12
3	✓	2	13	✓	12				12
4	✓	2	14						
5	✓	2	15						
6	✓	2	16						
7	✓	2			Grand Total		36		
8	✓	2			(MRS. R. RAGADHARSHINI)				
9	✓	2			R. R──┼┼L──				
10	✓	2		94%	18/10/19				
Total		20	Grand Total		Name and Signature of the Examiner with date				

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted				23	37		60
Marks Obtained				22	34		56

IQAC Audit - Remarks

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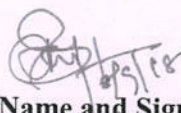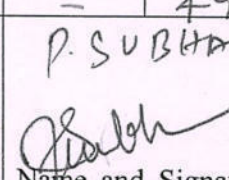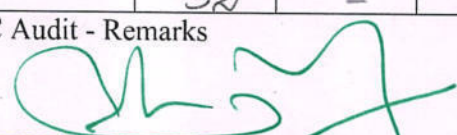
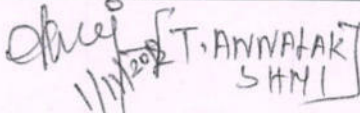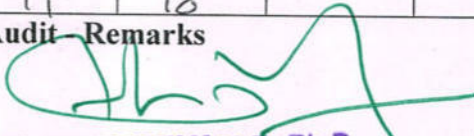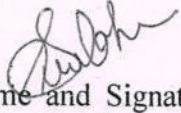Name and Signature
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Cycle Test Answer Book

Name	Chandrika. C		Year/ Semester	III /VI
Reg No.	912617103001	Date/Session	27.01.20/AN Department	CIVIL
Course code	CE8601	Course Title	Design of steel structural elements	
Cycle Test (Put a tick mark)	CT 1 ☑	CT 2 ☐	CT 3 ☐	Model ☐
Name and Signature of the Invigilator with date	P.D~ 27/1/20 P. Denni Flora			

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C					Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks	
1	✓	2	11	✓	08			08
2	✓	2	12	✓	08			08
3		2	13	✓	11			11
4	✓	2	14					
5	✓	2	15					
6		2	16					
7		2					Total	27
8	✓	2						
9	✓	2		46/60		G.~ 28/01/2020 G.GAYATHRI		
10	✓	1						
Total		19	Grand Total			Name and Signature of the Examiner with date		
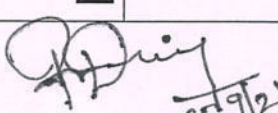
To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	42	18	—	—	—	—	—
Marks Obtained	30	16	—	—	—	—	—

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Cycle Test Answer Book

Name	R.Kaviya			Year/ Semester	II/III
Reg No.	912620105302	Date/Session	25/9/21	Department	EEE
Course code	EE8301	Course Title	Electrical machines -I		
Cycle Test	CT 1 ☑	CT 2 ☐	CT 3 ☐	Model ☐	
Name and Signature of the Invigilator with date			25/9/21 [L.R.DIVYA]		

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C						Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks		Total Marks
1	✓	2	11	✓	12				12
2	✓	2	12	✓	12				12
3	✓	2	13	✓	11				11
4	✓	2	14						
5	✓	2	15						
6	✓	2	16						
7	✓	1	Grand Total				35		
8	✓	2							
9	✓	1							
10	✓	1	52/60						
Total		17	Grand Total		Name and Signature of the Examiner with date		26/9/21		

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	37	23					60
Marks Obtained	33	19					52

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Cycle Test (Retest) Answer Book

Name	S.SRIBHARATHI		Year/ Semester	II / III
Reg. No	912620105305	Date/Session	7/10/21/FN	Department	EEE
Course code	EE8301	Course Title	Electrical Machines-I		
Cycle Test (Retest)	CT 1 ☑	CT 2 ☐	CT 3 ☐	Model ☐	
Name and Signature of the Invigilator with date			8/10/21 (B.PRIYA)		

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C					Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks	
1		2	11		11			11
2		2	12		11			11
3		1	13		11			11
4		1	14					
5		2	15					
6			16					
7					Grand Total			33
8								
9								
10			41					
Total		8	Grand Total		Name and Signature of the Examiner with date	7/10/21		

To be filled by the examiner

Course Outcomes	CO1	CO2	CO3	CO4	CO5	CO6	Total
Marks allotted	20	17	13				50
Marks Obtained	16	14	11				41

IQAC Audit - Remarks

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Cycle Test Answer Book

Name	B. Sherlin kaviya			Year/ Semester	I / I
Reg No.	912621103007	Date/Session	10/01/22/AN	Department	civil
Course code	MA3151	Course Title	Matrices and calculus		
Cycle Test (Put a tick mark)	CT 1 ✓	CT 2 ☐	CT 3 ☐	Model ☐	
Name and Signature of the Invigilator with date		S. Pej 10/1/22 [S.RENUGADEVI]			

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C					Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks	
1	✓	2	11			✓	16	16
2	✓	2	12			✓	12	12
3	✓	2	13			✓	16	16
4	✓	2	14	✓	6			6
5	✓	2	15			✓	10	10
6	✓	2	16					
7	✓	2			Grand Total			60
8	✓	2						
9	✓	2	80/100					
10	✓	2						
Total		20	Grand Total		Name and Signature of the Examiner with date			10/1/22

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	60	40					100
Marks Obtained	50	30					80

IQAC Audit - Remarks

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18/2/22

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(Mrs. B. PRIYA)

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle Test Answer Book

Name	M. Sathya			Year/ Semester	IV/ VIII
Reg No.	912618103008	Date/Session	18.5.22/FN	Department	CIVIL
Course code	CE 8021	Course Title	Structural Dynamics & Earthquake Enginee		

Cycle Test (Put a tick mark)	CT 1 ☐	CT 2 ☑	CT 3 ☐	Model ☐

Name and Signature of the Invigilator with date	V. N⌀⌀⌀ 18/5/22 [V. NITHYA POORANI APIECE]

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C						Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks		Total Marks
1	✓	1	11	✓	13				13
2	✓	2	12	✓	10				10
3	✓	2	13	✓	9				9
4	✓	2	14						
5	✓	2	15						
6		—	16						
7		—					Total		
8	✓	2							
9	✓	2	47/60						
10	✓	2				R.led 18/5/22 [R. PADMA RANI]			
Total		15	Grand Total			Name and Signature of the Examiner with date			

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted		36	24				60
Marks Obtained		29	18				47

IQAC Audit - Remarks

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Name and Signature of the IQAC member

[Mrs. B. PRIYA]

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle Test Answer Book

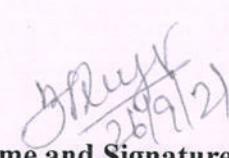| Name	K. JEYASRI			Year/ Semester	II/IV
Reg No.	912690106004	Date/Session	20.5.22/FN	Department	ECE
Course code	EC8453	Course Title	Linear Integrated circuit		
Cycle Test (Put a tick mark)		CT 1 ☐	CT 2 ☑	CT 3 ☐	Model ☐
Name and Signature of the Invigilator with date		P.D 20/5/22 [P. Dennii Hoa, AP(CSE)]			

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C						Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks		Total Marks
1		2	11		08			08	
2		2	12				09	09	
3		1	13		08			08	
4		0	14				06	06	
5		1	15						
6		1	16						
7		2			Total		31		
8		–							
9		0			V. N. 22/5/22				
10		2	42/60		[V. NITHYA POORANI, AP/ECE]				
Total		11	Grand Total		Name and Signature of the Examiner with date				

To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted			34	26			60
Marks Obtained			25	17			42

IQAC Audit - Remarks

Dr. S.THILAGAVAT
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Name and Signature of the IQAC member

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle Test Answer Book

Name	KEERTHANA · V			Year/ Semester		II / III
Reg No.	912621106006	Date/Session	13/10/22 AN	Department		ECE
Course code	EC 3354	Course Title	SIGNALS AND SYSTEMS			
Cycle Test (Put a tick mark)		CT 1 ☑	CT 2 ☐	CT 3 ☐	Model ☐	
Name and Signature of the Invigilator with date			P·D~ 13/10/22 [P· Dennis thora].			

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C		a		b	Total Marks
Q. No.	✓	Marks	Q. NO.	✓	Marks	✓	Marks	
1	✓	2	11			✓	13	13
2	✓	2	12	✓	13			13
3	✓	2	13	✓	13			13
4	✓	2	14	✓	12			12
5	✓	2	15			✓	13	13
6	✓	2	16	✓	15			15
7	✓	2				Total		79
8	✓	2						
9	✓	2				Ruah (R. YOHESHWART)		
10	✓	1	98/100			14/10/22		
Total		19	Grand Total			Name and Signature of the Examiner with date		
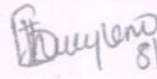
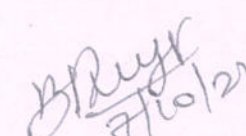| To be filled by the examiner							
Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	38	47	15				100
Marks Obtained	37	46	15				98

IQAC Audit - Remarks

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BRyy 1/12/22

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle Test Answer Book

Name	A. Sumithra		Year/ Semester/Section	II/IV
Reg. No	912621105004 Date/Session	8.5.23/AN Department		EEE
Course code	EE3403 Course Title	Measurements & Instrumentation		
Cycle Test	CT 1 ☐ CT 2 ☑ CT 3 ☐ Model ☐			
Name and Signature of the Invigilator with date	Duylena 8/5/23 (ELTHANYA UMA)			

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C						Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks		
1	✓	2	11	✓	11				11
2	✓	2	12			✓	11		11
3	✓	2	13	✓	12				12
4	✓	2	14			✓	12		12
5	✓	2	15			✓	13		13
6	✓	1	16	✓	14				14
7	✓	2		Grand Total				73	
8	✓	2							
9	✓	2	92%		P. Bow (Mrs P. Bowmila) 9/5/23				
10	✓	2							
Total		19	Grand Total	Name and Signature of the Examiner with date					

To be filled by the examiner							
Course Outcomes	CO1	CO2	CO3	CO4	CO5	CO6	Total
Marks allotted	—	—	38	13	34	15	100
Marks Obtained	—	—	33	12	33	14	92

IQAC Audit - Remarks

BRuyr 24/5/23
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(MRS. B. Priya)

Dr. S.THILAGAVATHI M.E., Ph.D.,
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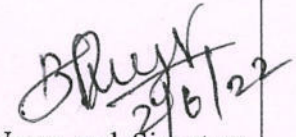
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Cycle Test Answer Book

Name	B. JAYAMANOHARI			Year/ Semester	II /IV
Reg No.	912621103004	Date/Session	25.03.23 FN	Department	Civil
Course code	CE 3404	Course Title	Soil mechanics		
Cycle Test (Put a tick mark)		CT 1 ✓	CT 2 ☐	CT 3 ☐	Model ☐
Name and Signature of the Invigilator with date		25/3 [G. GIDPPERUNDEVI]			

Instruction to the Student: Put tick mark to the question attended in the column against question.

Part A			Part B / Part C					Total Marks
Q. No.	✓	Marks	Q. NO.	✓	a Marks	✓	b Marks	
1	✓	2	11			✓	13	13
2	✓	2	12	✓	12			12
3	✓	2	13			✓	13	13
4	✓	2	14			✓	8	8
5	✓	2	15	✓	9			9
6	✓	2	16	✓	14			14
7	✓	2	Grand Total				69	
8	✓	2						
9	✓	1						
10	✓	0		86/100	25/3/23 [RACI. MAHIZHINI]			
Total		17	Grand Total		Name and Signature of the Examiner with date			

To be filled by the examiner

Course Outcomes	1	2	3	4	5	6	Total
Marks allotted	49	32	19	—	—	—	100
Marks Obtained	43	30	13	—	—	—	86

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SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai DL.

Name and Signature
of the IQAC member

(Mrs. B. PRIYA)

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Co Based Mark Entry

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

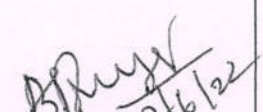Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2018 – 2019 (ODD SEMESTER)

STUDENTS MARK STATEMENT- CO BASED

CYCLE TEST-I

SUBJECT CODE &TITLE: CE6504 & HIGHWAY ENGINEERING

YEAR/SEM: III/V

MONTH & YEAR: JULY 2018
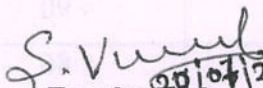
S.NO	REG NO	STUDENT NAME	CO1 (34)	CO2 (16)	TOTAL (50)	TOTAL (100)
1	912616103001	AARTHI.G	30	11	41	82
2	912616103002	ANANTHI.S	11	7	18	36
3	912616103003	ANUSIYA.C	12	07	19	38
4	912616103004	KANIMOZHI.P	29	12	41	82
5	912616103005	LAVANYA.K	16	4	20	40
6	912616103006	MASILAMANI.M	10	8	18	36
7	912616103007	MENAKA.R	32	16	48	96
8	912616103008	PRAVEENA.M	30	15	45	90
9	912616103301	GOWSIKA N	28	15	43	86
10	912616103302	KALISWARI M	32	15	47	94
11	912616103303	MAHESWARI M	31	14	45	90
12	912616103304	SARATHAPRITHA S	32	13	45	90

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	-	4	-	-	-	-	6	2

Total No.of Candidates Present	12
Total No.of Candidates Absent	-
Total No.of Students Pass	08
Total No. of Students Fail	04
Percentage of Pass	66.66%

S. Vimal
20/07/2018
Faculty Incharge

R. Dy
30/7/18
HoD/Civil
HOD / CIVIL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

01/08/18
Principal
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT
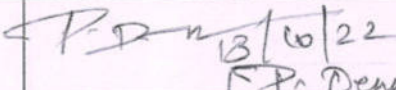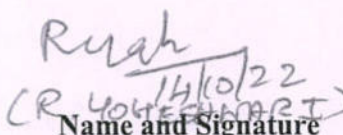
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

KAIKKURICHI, PUDUKKOTTAI – 622 303

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2018 – 2019 (ODD SEMESTER)
STUDENTS MARK STATEMENT- CO BASED
CYCLE TEST-I
SUBJECT CODE &TITLE: EE8391 & ELECTROMAGNETIC THEORY

YEAR/SEM: II/III   **MONTH & YEAR: AUG & 2018**

S.NO	REG NO	STUDENT NAME	C203.1 (34)	C203.2 (16)	TOTAL (50)	TOTAL (100)
1.	912617105001	NAZEERA BANU.I	30	16	46	92
2.	912617105002	PARTHIKA.S	30	15	45	90
3.	912617105003	PRIYA:T	10	05	15	30
4.	912617105004	SAJINA.K	04	10	14	28
5.	912617105005	SELSIYA.R	30	14	44	88
6.	912617105006	THENMOZHI.J	30.5	16	46.5	93
7.	912617105007	VANITHA.E	08	10	18	36
8.	912617105301	PRASANNA P	10	05	15	30
9.	912617105302	SIYAMALADEVI S	31	12.5	43.5	87

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
—	3	1	—	—	—	—	3	2

Total No.of Candidates Present	9
Total No.of Candidates Absent	NIL
Total No.of Students Pass	5
Total No. of Students Fail	4
Percentage of Pass	55.5%

Faculty Incharge

Dr. S.THILAGAVATHI
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

HoD/EEE
HOD EEE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303.

PRINCIPAL
PRINCIPAL
SRI BHARATHI ENGINEERING
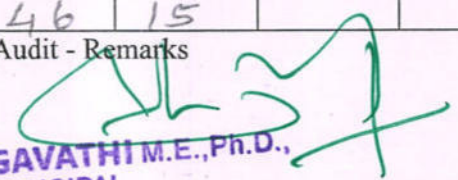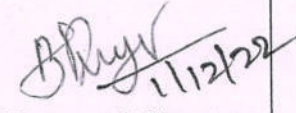COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and affiliated to Anna University, Chennai)

KAIKKURICHI, PUDUKKOTTAI - 622 303

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2018 – 2019 (ODD SEMESTER)

STUDENTS MARK STATEMENT- CO BASED

CYCLE TEST-II

Course Code & Name: EC6503 &TRANSMISSION LINES &WAVEGUIDES

YEAR/SEM: III YEAR & V SEMESTER   MONTH & YEAR: SEPTEMBER-2018

S.NO	REG NO	STUDENT NAME	CO3 (33)	CO5 (17)	CO3+ CO5 (50)	TOTAL (100)
1.	912616106001	ABINAYA.R	18	08	26	52
2.	912616106002	AGALYA.A	20	11	31	62
3.	912616106003	ATCHAYA.G	17	8	25	50
4.	912616106004	DEEPA.N	24	12	32	64
5.	912616106005	DHARANIYA.A	25	15	40	80
6.	912616106006	JEEVITHA.U	18	12	30	60
7.	912616106007	MAHESWARI.V	19	07	26	52
8.	912616106008	PAZHANIYAMMAL.R	27	14	41	82
9.	912616106009	PRIYANKA.E	21	10	31	62
10.	912616106010	ROJA.A	27	15	42	84
11.	912616106011	SHANMUGAPRIYA.R	24	08	32	64
12.	912616106012	SHIYAMALA.E	18	12	30	60
13.	912616106013	SIVA BHARATHI.P	18	12	30	60
14.	912616106014	SIVARUBINI.S	32	17	49	92
15.	912616106015	THENMOZHI.A	20	12	32	64
16.	912616106016	VINCY.A	23	12	35	70
17.	912616106302	SANKAVI M	12	08	20	**40**

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
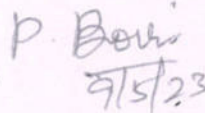COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	-	1	1	5	6	1	2	1

Total No.of Candidates Present	17
Total No.of Candidates Absent	-
Total No.of Students Pass	16
Total No. of Students Fail	01
Percentage of Pass	94.1%

Faculty Incharge

HoD/ECE

PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN, KAIKKURICHI
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

ACADEMIC YEAR 2018-2022-- ODD SEMESTER
STUDENTS MARK STATEMENT –CO BASED
SECTION -A
CYCLE TEST-II-(NOVEMBER-2018)

PROGRAM : B.E / CSE
YEAR/SEM : I/I
SUBJECT CODE & TITLE : CY8151-ENGINEERING CHEMISTRY
DATE : 31.10.2018

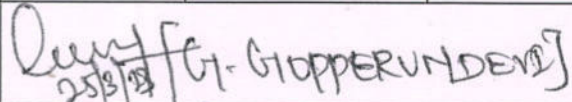| S.N0	REG.NO	NAME	CO3 (10)	CO4 (20)	CO5 (10)	CO6 (10)	MARKS (50)	MARKS (100)
1	912618104001	ABIRAMI.S	06	10	08	07	31	62
2	912618104002	AKILA.P	05	12	09	07	33	66
3	912618104003	BUVANESHWARI.S	7	15	09	05	36	72
4	912618104004	EVANJELIN.S	08	13	06	03	30	60
5	912618104005	FEFINA.I	04	06	05	01	16	32
6	912618104006	GAYATHRI.S	09	18	08	09	44	88
7	912618104007	GOWSALYA.A	05	08	07	06	26	52
8	912618104008	ISHWARYA.S	09	16	06	05	36	72
9	912618104009	ISWARYA.C	08	15	07	06	36	72
10	912618104011	JAYANTHINI.T	AB	AB	AB	AB	AB	AB
11	912618104012	KAVIYASELVI.K	07	14	08	07	36	72
12	912618104013	KOWSALYA.S	06	13	09	04	32	64
13	912618104014	LAKSHMI.N	09	18	08	07	42	84
14	912618104015	LAKSHMI PRABHA.M	08	14	07	09	38	76
15	912618104016	LAVANYA.S	08	18	09	06	41	82
16	912618104017	MALA.S	06	14	06	04	30	60
17	912618104018	MAMTHA.G	AB	AB	AB	AB	AB	AB
18	912618104019	NIRANJANADEVI.C	08	15	08	08	39	78
19	912618104020	NIVEDHA.M	08	14	08	07	37	74
20	912618104021	NIVETHA.G	06	14	07	04	31	62
21	912618104022	PRIYADHARSHINI.R	06	19	08	08	41	82
22	912618104023	PRIYAVATHANI.A	06	16	06	05	36	72
23	912618104024	PUVIYARASI.S	04	06	05	04	19	38
24	912618104025	RASMI.J	07	13	06	04	30	60
25	912618104026	ROSLINA BEGUM.R	09	18	10	09	46	92
26	912618104027	SINDHU.V	09	18	09	09	45	90
27	912618104028	SIVASANGAVI.A	07	19	07	07	40	80
28	912618104029	SURUTHIKA.S	06	14	06	05	31	62
29	912618104030	SURYA.A	07	19	08	09	43	86
30	912618104011	SUSHMEENA K	06	10	04	07	27	54

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

MARK RANGE:

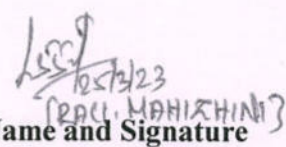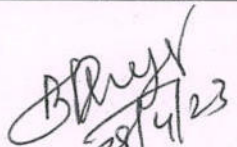| <20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	-	02	-	05	05	09	06	01

Total Number of Students Present	28
Total Number of Students Absent	02
Total Number of Candidates Pass	26
Total Number of Candidates Fail	02
Percentage of Pass	92.85%

FACULTY INCHARGE

HoD/S&H

PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and affiliated to Anna University, Chennai)

KAIKKURICHI, PUDUKKOTTAI – 622 303
DEPARTMENT OF INFORMATION TECHNOLOGY
ACADEMIC YEAR 2019 – 2020 (ODD SEMESTER)
STUDENTS MARK STATEMENT- CO BASED
CYCLE TEST-I

SUBJECT CODE &TITLE: CS8592 – OBJECT ORIENTED ANALYSIS AND DESIGN

YEAR/SEM: III YEAR & VI SEMESTER   MONTH & YEAR: FEB2020

S.NO	REG NO	STUDENT NAME	CO1 (21)	CO2 (39)	TOTAL (60)	TOTAL (100)
1.	912617205001	ANUSHIYA T	15	15	30	60
2.	912617205002	GAYADHRI S	17	19	36	60
3.	912617205003	KALAIVANI K	20	17	37	62
4.	912617205004	MARYSELCIYA S	15	35	50	83
5.	912617205005	MERCY KIRUBAC	20	15	35	70
6.	912617205006	RUPASRI M	17	25	42	70
7.	912617205007	SHANMATHI S	20	17	37	62
8.	912617205008	VINODHINI M	17	32	49	81
9.	912617205301	HEMALATHA A	12	15	27	54

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
0	0	0	0	3	4	0	2	0

Total No.of Candidates Present	09
Total No.of Candidates Absent	NIL
Total No.of Students Pass	09
Total No. of Students Fail	NIL
Percentage of Pass	100%

SIGNATURE OF THE FACULTY IN-CHARGE   HOD/IT   PRINCIPAL

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.

HOD/IT
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI
PUDUKKOTTAI - 622 303.

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2019 – 2020 (EVEN SEMESTER)

STUDENTS MARK STATEMENT- CO BASED

CYCLE TEST-I

SUBJECT CODE &TITLE: CE8601 –DESIGN OF STEEL STRUCTURAL ELEMENTS

YEAR/SEM: III/VI   MONTH & YEAR: JANUARTY & 2020
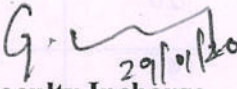
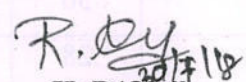| S.NO	REG NO	STUDENT NAME	CO1 (42)	CO2 (18)	TOTAL (60)	TOTAL (100)
1	912617103001	CHANDRIKA C	30	16	46	76
2	912617103002	DHESIKAPARTHI D	20	12	32	53
3	912617103003	KARTHIKA K	20	13	33	55
4	912617103004	KASTHURI K	41	17	58	96
5	912617103005	MONIKA K	37	15	52	86
6	912617103006	MUTHUMEENA P	40	16	56	94
7	912617103007	POTHUMPEN A	16	05	21	35
8	912617103008	PRIYADHARSHINI S	15	05	20	33
9	912617103009	RAJESWARI J	35	13	48	80
10	912617103010	SIVAPRIYA S	15	09	24	40
11	912617103701	LAKSHMI A	37	17	54	90
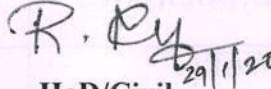
Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
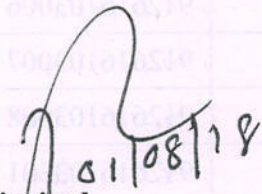COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.
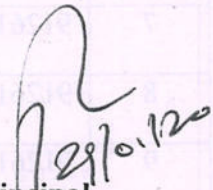
MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	-	3	-	2	-	2	2	2

Total No.of Candidates Present	11
Total No.of Candidates Absent	-
Total No.of Students Pass	8
Total No. of Students Fail	3
Percentage of Pass	72.72%

G.~ 29/1/20
Faculty Incharge

R. Py 29/1/20
HoD/Civil

29/01/20
Principal

HOD / CIVIL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai-25)

KAIKKURICHI, PUDUKKOTTAI – 622 303

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2019 – 2020 (ODD SEMESTER)
STUDENTS MARK STATEMENT- CO BASED
CYCLE TEST-III

SUBJECT CODE &TITLE: EE8351 & Digital Logic Circuits

YEAR/SEM: II/III   MONTH & YEAR: OCT & 2019

S.NO	REG NO	STUDENT NAME	C202.4 (23)	C202.5 (37)	TOTAL (60)	TOTAL (100)
1.	912618105001	AARTHI G	22	32	54	91
2.	912618105002	AASHA R	20	37	57	95
3.	912618105003	AGARI S	21	35	56	94
4.	912618105004	JEEVITHA R	22	35	57	95
5.	912618105005	NISHA K	22	34	56	94
6.	912618105006	RAMANA R	20	35	55	92
7.	912618105007	SNEHA S	20	33	53	90
8.	912618105301	VINOTHINI V	10	16	26	43

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
—	—	—	1	—	—	—	1	6

Total No.of Candidates Present	08
Total No.of Candidates Absent	NIL
Total No.of Students Pass	07
Total No. of Students Fail	01
Percentage of Pass	87.5%

R R   HoD/EEE   PRINCIPAL
Faculty Incharge

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

ACADEMIC YEAR 2019 – 2020 (ODD SEMESTER)

STUDENTS MARK STATEMENT- CO BASED

CYCLE TEST-I

SUBJECT CODE &TITLE: EC8553 –DISCRETE TIME SIGNAL PROCESSING

YEAR/SEM: III YEAR & V SEMESTER   MONTH & YEAR: JULY2019

S.NO	REG NO	STUDENT NAME	CO1 (30)	CO2 (30)	(CO1, CO2) (60)	TOTAL (100)
1.	912617106001	ABIRAMI S	28	30	58	92
2.	912617106002	ABISHEKA S	26	20	46	74
3.	912617106003	ATSHAYA R	28	26	54	87
4.	912617106004	BAVADHARANI A	27	29	56	90
5.	912617106005	BHUVANESHWARI B	25	23	48	76
6.	912617106006	DHIVYA L	14	15	29	46
7.	912617106007	GOWSALYA D	26	25	51	82
8.	912617106009	INDHUMATHI S	15	14	29	47
9.	912617106010	KANIMOZHI D	20	11	31	52
10.	912617106011	KAVYA C	27	29	56	94
11.	912617106012	KEERTHANA G	10	13	23	39
12.	912617106013	MAHESHWARI G	19	10	29	48
13.	912617106014	MANOHARI M	23	22	45	74
14.	912617106015	MARAGATHALAKSHMI S	25	26	51	84
15.	912617106017	SAFRIN NISHA S	24	28	52	83
16.	912617106018	SUBASHINI M	22	23	45	75
17.	912617106019	SUBASHINI T	15	10	25	42
18.	912617106020	VINTHIYA R	29	28	57	95

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	-	01	04	01	-	04	05	03

Total No.of Candidates Present	18
Total No.of Candidates Absent	NIL
Total No.of Students Pass	13
Total No. of Students Fail	05
Percentage of Pass	72%

FACULTY INCHARGE

HoD/ECE

PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

KAIKKURICHI,PUDUKKOTTAI-622 303

ACADEMIC YEAR 2019-2020--- ODD SEMESTER

STUDENTS MARK STATEMENT –CO BASED

SECTION –A

CYCLE TEST-I

PROGRAM : B.E / CSE

YEAR/SEM : I/I

SUBJECT CODE & TITLE : MA8151-ENGINEERING MATHEMATICS-I

DATE : 11.09.2019

SI .NO	REG.NO	NAME	CO1 (42)	CO2 (18)	TOTAL (60)	MARKS (100)
1	912619104001	ANNAPOORANI M	28	10	38	63
2	912619104002	ANUSUYA S	09	03	12	20
3	912619104003	ARUNNAVAMEENA A	33	13	46	77
4	912619104004	DAYANA P	25	09	34	57
5	912619104005	DHARSHINI D	20	10	30	50
6	912619104006	FAHIMA F	10	08	18	30
7	912619104007	FAHMIDHA B	26	12	38	63
8	912619104008	GAYATHRI DEVI.G	-	-	AB	AB
9	912619104009	GULNAS FATHIMA S	37	16	53	88
10	912619104010	HELAN J	41	17	58	97
11	912619104011	KEERTHANA R	40	17	57	95
12	912619104012	MUTHULAKSHMI G	34	16	50	83
13	912619104013	MUTHU MEENAKSHI M	15	06	21	35
14	912619104014	NIROSHIKA R	08	04	12	20
15	912619104015	NISHA D	-	-	AB	AB
16	912619104016	NITHYA M	35	13	48	80
17	912619104017	PARAMESHWARI S	12	06	18	30
18	912619104018	PRIYANGA.R	-	-	AB	AB
19	912619104019	RANJANI K	22	10	32	53
20	912619104020	RILWANA PARVEEN J	41	17	58	97
21	912619104021	ROOPINA R	13	05	18	30
22	912619104022	SANDHIYA B	37	16	53	88
23	912619104023	SANTHI D	10	05	15	25
24	912619104024	SARANYA C	07	05	12	20
25	912619104025	SARUMATHI A	42	18	60	100
26	912619104026	SINEKA.K	-	-	AB	AB
27	912619104027	SNEHA R	37	15	52	87
28	912619104028	SRIJA.T	-	-	AB	AB
29	912619104029	SURIYA JOTHI S	14	07	21	35
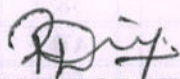
MARK RANGE:

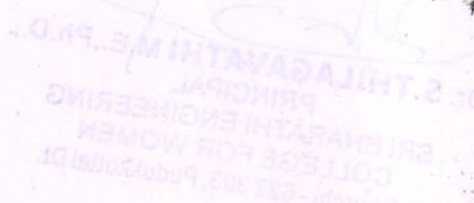| <20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	07	02	01	02	02	02	04	04

Total Number of Students Present	24
Total Number of Students Absent	05
Total Number of Candidates Pass	15
Total Number of Candidates Fail	09
Percentage of Pass	62.5%

SIGNATURE OF THE FACULTY HoD/S&H PRINCIPAL

HOD / S&H
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI
PUDUKKOTTAI - 622 303.

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303
PUDUKKOTTAI DIST.

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021 (ODD SEMESTER)

STUDENTS MARK STATEMENT- CO BASED

CYCLE TEST-II

SUBJECT CODE &TITLE: CE8591& Foundation Engineering
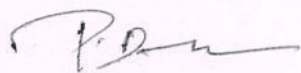
YEAR/SEM: III/V   MONTH & YEAR: SEPTEMBER-2020

S.NO	REG NO	STUDENT NAME	CO3 (36)	CO4 (24)	TOTAL (60)	TOTAL (100)
1.	912618103003	MAHESHWARI V	25	15	40	66
2.	912618103005	MEENACHI K	33	21	54	90
3.	912618103008	SATHYA M	35	20	55	92
4.	912618103009	SRIVIDHYA S	34	22	56	94
5.	912618103010	UMAMAHESWARI K	34	20	54	90

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	-	-	-	-	1	-	2	2
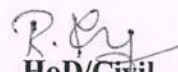
Total No. of Candidates Present	05
Total No. of Candidates Absent	-
Total No. of Students Pass	05
Total No. of Students Fail	-
Percentage of Pass	100%

Faculty Incharge

HoD/Civil

Principal

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI, PUDUKKOTTAI – 622 303
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2020 – 2021 (EVEN SEMESTER)
STUDENTS MARK STATEMENT- CO BASED
CYCLE TEST-II

SUBJECT CODE &TITLE: EE8401 & Electrical Machines - II

YEAR/SEM: II/IV

MONTH & YEAR: April & 2021

S.NO	REG NO	STUDENT NAME	C210.4 (15)	C210.5 (45)	TOTAL (60)	TOTAL (100)
1.	912619105001	AASHIKA R	15	44	59	98
2.	912619105002	ABINAYA S	13	42	55	91
3.	912619105003	ABITHA P	14	43	57	95
4.	912619105004	ARTHY N	13	43	56	93
5.	912619105005	DEEPIKA R	14	44	58	96
6.	912619105006	KOGULA PRIYA R	10	38	48	80
7.	912619105007	NISHA S	12	44	56	93
8.	912619105008	PAVITHRA M	15	42	57	95
9.	912619105009	PRAGADEESHWARI A	15	40	55	91
10.	912619105010	SIVARANJANI S	14	42	56	92
11.	912619105301	RAGAVI R	15	43	58	96
12.	912619105501	BHUVANESHWARI C	—	—	—	—

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
—	—	—	—	—	—	01	—	10

Total No. of Candidates Present	11
Total No. of Candidates Absent	NIL
Total No. of Students Pass	11
Total No. of Students Fail	NIL
Percentage of Pass	100%

A. Primrose

FACULTY INCHARGE

HoD/EEE

HOD EEE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI.
PUDUKKOTTAI -

PRINCIPAL

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR 2020 – 2021 (EVEN SEMESTER)
STUDENTS MARK STATEMENT- CO BASED
CYCLE TEST-I

COURSE CODE &NAME: EC8O94-SATELLITE COMMUNICATION

YEAR/SEM: IV/VIII   MONTH & YEAR: MAR'21

S.NO	REG.NO	NAME	CO1 (32)	CO2 (28)	MARKS (60)	TOTALMARKS (100)
1.	912617106001	ABIRAMI S	30	28	58	96
2.	912617106002	ABISHEKA S	30	28	58	96
3.	912617106003	ATSHAYA R	30	25	55	92
4.	912617106004	BAVADHARANI A	32	21	53	88
5.	912617106005	BHUVANESHWARI B	30	28	58	96
6.	912617106006	DHIVYA L	30	28	58	96
7.	912617106007	GOWSALYA D	30	25	55	92
8.	912617106009	INDHUMATHI S	30	28	58	96
9.	912617106010	KANIMOZHI D	30	23	53	88
10.	912617106011	KAVYA C	30	28	58	96
11.	912617106012	KEERTHANA G	30	28	58	96
12.	912617106013	MAHESHWARI G	30	25	55	92
13.	912617106014	MANOHARI M	31	27	58	96
14.	912617106015	MARAGATHALAKSHMI S	31	27	58	96
15.	912617106017	SAFRIN NISHA S	30	23	53	80
16.	912617106018	SUBASHINI M	30	28	58	96
17.	912617106019	SUBASHINI T	30	25	55	92
18.	912617106020	VINTHIYA R	32	26	58	96

MARKS RANGE

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	--	-	-	-	-	01	02	15

Total No.of Candidates Present	18
Total No.of Candidates Absent	NIL
Total No.of Students Pass	18
Total No.of Students Fail	NIL
Percentage of Pass	100 %

Faculty Incharge

HoD/ECE

HOD / ECE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

Principal

4/3/21

PRINCIPAL
SRI BHARATHI ENGINEERII
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF SCINCE AND HUMANITIES

ACADEMIC YEAR 2020 – 2021 (EVEN SEMESTER)

STUDENTS MARK STATEMENT- CO BASED

SECTION-A

CYCLE TEST-I

PROGRAM : B.E.,/CSE

YEAR/SEM : I/II

SUBJECT CODE &TITLE: HS8251 Technical English

DATE : 06/05/2021

S.NO	REG NO	STUDENT NAME	CO1 (60)	TOTAL (60)	TOTAL (100)
1.	912620104001	AKALYA S	52	52	87
2.	912620104002	HEMA V	55	55	92
3.	912620104003	ISWARYA R	51	51	85
4.	912620104004	KALAIVANI S	53	53	89
5.	912620104005	KALPANA K	49	49	81
6.	912620104006	MAHALAKSHMI P	48	48	80
7.	912620104007	MEIYYAMMAL M	47	47	79
8.	912620104008	NANDHINI P	48	48	80
9.	912620104009	PRASANNA DEVI P	52	52	86
10.	912620104010	PRISHIYA E	51	51	85
11.	912620104012	ROSAMMAL M	52	52	87
12.	912620104013	ROSHIKA K	50	50	83
13.	912620104014	SABHA AYSHA S	54	54	90
14.	912620104015	SATHIYASRI P	53	53	88
15.	912620104016	SIVAGAMI D	49	49	82
16.	912620104017	SIVAHARINI S	52	52	86
17.	912620104018	SUBASHINI C	54	54	90
18.	912620104019	SUBASHINI M	49	49	81

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Kaikkurchi - 622 303, Pudukkottai Dt.

Dr. S.THILAGAVATHI M.E.,Ph.D.,
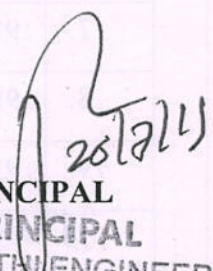PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

19.	912620104020	SWETHA D	47	47	79
20.	912620104021	VANATHI T	48	48	80
21.	912620104022	VINCIYA MARY S	50	50	84

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	-	-	-	-	-	5	15	1

Total No.of Candidates Present	21
Total No.of Candidates Absent	NIL
Total No.of Students Pass	21
Total No. of Students Fail	NIL
Percentage of Pass	100%

Faculty Incharge

HoD/S&H

PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2021 – 2022 (EVEN SEMESTER)

STUDENTS MARK STATEMENT- CO BASED

CYCLE TEST-II

SUBJECT CODE &TITLE: CE8021 & Structural Dynamics and Earthquake Engineering

YEAR/SEM: IV/VIII   MONTH & YEAR: MAY & 2022

S.NO	REG NO	STUDENT NAME	CO2 (36)	CO3 (24)	TOTAL (60)	TOTAL (100)
1.	912618103005	MEENACHI K	16	10	26	<u>43</u>
2.	912618103008	SATHYA M	29	18	47	78
3.	912618103009	SRIVIDHYA S	31	23	54	90
4.	912618103010	UMAMAHESWARI K	24	14	38	63

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	-	-	1	-	1	1	1	-

Total No.of Candidates Present	04
Total No.of Candidates Absent	-
Total No.of Students Pass	03
Total No. of Students Fail	01
Percentage of Pass	75%

Faculty Incharge   HoD/Civil   Principal

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI, PUDUKKOTTAI – 622 303

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021 – 2022 (ODD SEMESTER)

STUDENTS MARK STATEMENT- CO BASED

CYCLE TEST-I

SUBJECT CODE &TITLE: EE8301 - Electrical Machines-I

YEAR/SEM: II/III   MONTH & YEAR: September & 2021

S.NO	REG NO	STUDENT NAME	C204.1 (37)	C204.2 (23)	TOTAL (60)	TOTAL (100)
1.	912620105001	KAYALVIZHI K	35	20	55	92
2.	912620105002	RAMADEVI S	16	14	30	50
3.	912620105003	SRINANTHANA S	33	21	54	90
4.	912620105301	KALPANA T	09	05	13	22
5.	912620105302	KAVIYA R	34	18	52	86
6.	912620105303	KOPPERUNDEVI S	31	19	50	84
7.	912620105304	NARMATHA DEVI K	—	—	AB	AB
8.	912620105305	SRIBHARATHI S	03	05	08	13

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
01	01	—	01	—	—	—	02	02

Total No. of Candidates Present	07
Total No. of Candidates Absent	01
Total No. of Students Pass	05
Total No. of Students Fail	02
Percentage of Pass	71.4 %

FACULTY INCHARGE   HoD/EEE   PRINCIPAL 21/5/21

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

HOD EEE
SRI BHARATHI ENGINEERING
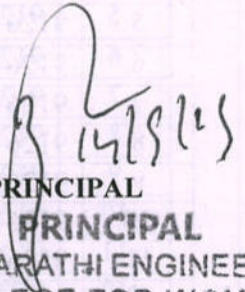COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303.

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2021 – 2022(EVEN SEMESTER)

<u>STUDENTS MARK STATEMENT- CO BASED</u>

CYCLE TEST-II

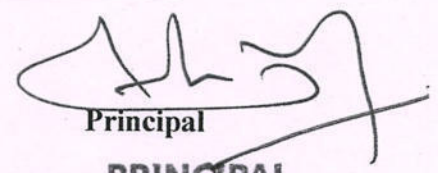**SUBJECT CODE &TITLE: EC8543 & LINEAR INTEGRETED CIRCUITS**

YEAR/SEM: II YEAR & IV SEMESTER   **MONTH & YEAR: MAY-2022**

S.NO	REG NO	STUDENT NAME	CO3 (34)	CO4 (26)	MARKS (60)	TOTAL (100)
1.	912620106001	ABIRAMI S	33	25	58	97
2.	912620106002	ANUSHYA M	25	15	40	67
3.	912620106003	ARTHI S	19	18	37	62
4.	912620106004	JEYASRI K	25	17	42	70
5.	912620106006	SENPAGAHARINI V	26	23	49	82
6.	912620106007	SONIYA P	21	24	45	75
7.	912620106301	ABITHA S	19	18	37	61
8.	912620106302	DESIKA G	13	11	24	40
9.	912620106303	SABAREESWARI S	AB	AB	AB	AB
10.	912620106304	SUBBULAKSHMI P	AB	AB	AB	AB

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	-	1	-	-	05	-	1	1

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

KAIKKURICHI,PUDUKKOTTAI-622 303

ACADEMIC YEAR 2021-2022-- ODD SEMESTER

STUDENTS MARK STATEMENT –CO BASED

SECTION -B

CYCLE TEST-I

PROGRAM : B.E / CIVIL,ECE&EEE
YEAR/SEM : I/I
SUBJECT CODE & TITLE : MA3151-MATRICES AND CALCULUS
DATE : 10.01.2022

SI .NO	REG.NO	NAME	CO 1 (60)	CO 2 (40)	MARKS (100)
1	912621103001	AKILA.G	48	20	68
2	912621103002	GAYATHRI.G	-	-	AB
3	912621103003	JAYABHARATHI.R	52	20	72
4	912621103004	JAYA MANOHARI.B	60	27	87
5	912621103005	PRIYADHARSHINI.A	46	27	73
6	912621103006	RABIA BANU.M	30	25	55
7	912621103007	SHERLIN KAVYA.B	50	30	80
8	912621106001	AMRIN. M	56	37	93
9	912621106002	BHUVANESWARI.C	-	-	AB
10	912621106003	DHANYASHREE.A	38	37	75
11	912621106004	KALAIVANI.R	30	25	55
12	912621106005	KAVIYA.K	30	15	45
13	912621106006	KEERTHANA.V	43	15	58
14	912621106007	PAVITHRA.P	-	-	AB
15	912621106008	RAJESHWARI.R	20	10	30
16	912621106009	SUBALAKSHMI.M	37	49	86
17	912621106010	SUGUNA.C	36	18	54
18	912621105001	GOKULA PRAVEENA.A	29	14	43
19	912621105002	RAFEEQA.N	-	-	AB
20	912621105003	RAJESWARI. A	46	31	77
21	912621105004	SUMITHRA.S	47	23	70
22	912621105005	VINOTHA.V	36	20	56

MARK RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	01	01	01	05	02	05	02	01

Total Number of Students Present	18
Total Number of Students Absent	03
Total Number of Candidates Pass	15
Total Number of Candidates Fail	04
Percentage of Pass	78%

SIGNATURE OF THE FACULTY

HoD / S&H
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI
PUDUKKOTTAI - 622 303.

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 (EVEN SEMESTER)

STUDENTS MARK STATEMENT- CO BASED

CYCLE TEST-I

SUBJECT CODE &TITLE: CE3404 & Soil Mechanics

YEAR/SEM: II/IV

MONTH & YEAR: MARCH & 2023

S.NO	REG NO	STUDENT NAME	CO1 (49)	CO2 (32)	CO3 (19)	TOTAL (100)
1.	912621103001	AKILA.G	37	30	9	76
2.	912621103002	GAYATHRI G	-	-	-	AB
3.	912621103003	JAYABHARATHI.R	40	30	14	84
4.	912621103004	JAYA MANOHARI.B	43	30	13	86
5.	912621103005	PRIYADHARSHINI.A	26	24	10	60
6.	912621103006	RABIA BANU.M	-	-	-	AB
7.	912621103007	SHERLIN KAVYA.B	42	20	14	76
8.	912621103301	JENIFAR.A	23	18	02	43
9.	912621103302	KALAIARASI.G	22	10	03	35

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	-	1	1	1	-	2	2	-

Total No. of Candidates Present	07
Total No. of Candidates Absent	02
Total No. of Students Pass	05
Total No. of Students Fail	02
Percentage of Pass	71%

Faculty Incharge

HoD/Civil

HOD / CIVIL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

Principal

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURICHI, PUDUKKOTTAI – 622 303
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2022 – 2023 (EVEN SEMESTER)
STUDENTS MARK STATEMENT- CO BASED
CYCLE TEST-II
SUBJECT CODE &TITLE: EE3403-MEASUREMENTS & INSTRUMENTATION

YEAR/SEM: II/IV   **MONTH & YEAR:May'2023**

S.NO	REG NO	STUDENT NAME	CO3 (38)	CO4 (13)	CO5 (34)	CO6 (15)	TOTAL (100)
1.	912621105001	GOKULAPRAVEENA .A	24	10	24	11	69
2.	912621105004	SUMITHRA.S	33	12	33	14	92

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
-	-	-	-	-	1	-	-	1

Total No.of Candidates Present	2
Total No.of Candidates Absent	NIL
Total No.of Students Pass	2
Total No. of Students Fail	NIL
Percentage of Pass	100%

P. Bovin

FACULTY INCHARGE

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
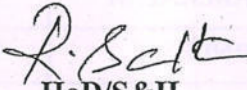COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

9/5/23
HoD/EEE
HOD EEE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303.

86/23
PRINCIPAL
PRINCIPAL
SRI BHARATHI ENGINEERII
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303,

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR 2022 – 2023 (ODD SEMESTER)
STUDENTS MARK STATEMENT- CO BASED
CYCLE TEST-I
COURSE CODE &NAME: EC3354-SIGNALS AND SYSTEMS
YEAR/SEM: II/III   **MONTH & YEAR: OCT'22**

S.NO	REG NO	STUDENT NAME	CO1 (38)	CO2 (47)	CO3 (15)	TOTAL (100)
1.	912621106001	AMRIN. M	26	20	05	51
2.	912621106002	BHUVANESWARI.C	13	20	02	35
3.	912621106003	DHANYASHREE.A	26	11	00	37
4.	912621106004	KALAIVANI.R	15	11	05	31
5.	912621106005	KAVIYA.K	28	32	03	63
6.	912621106006	KEERTHANA.V	37	46	15	98
7.	912621106007	PAVITHRA.P	25	20	05	50
8.	912621106008	RAJESHWARI.R	36	30	11	77
9.	912621106009	SUBALAKSHMI.M	07	07	00	14
10.	912621106010	SUGUNA.C	28	20	05	53
11.	912621106301	JAYAPRIYA.M	12	04	00	16
12.	912621106302	KIRUBASHINI.C	08	08	00	16

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
03	-	03	01	02	01	01	-	01

Total No.of Candidates Present	12
Total No.of Candidates Absent	NIL
Total No.of Students Pass	06
Total No. of Students Fail	06
Percentage of Pass	50 %

Faculty Incharge

HoD/ECE
HOD / ECE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303.

PRINCIPAL 18/10/22

Dr. S.THILAGAVATHI M.E., Ph.D
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

PRINCIPAL
SRI BHARATHI ENGINEERIN
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

SRI BHARATHI ENGINEERING COLLEGE FORWOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi,Pudukkottai-622 303

ACADEMIC YEAR 2022-2023 -- ODD SEMESTER
STUDENTS MARK STATEMENT– CO BASED
SECTION –A
CYCLE TEST-II

PROGRAM	: B.E / CSE
YEAR/SEM	: I/II
SUBJECT CODE & TITLE	: PH3151 & ENGINEERING PHYSICS
DATE	: 24.02.2023

SI .NO	REG.NO	NAME	CO3 (20)	CO5 (40)	CO6 (40)	MAXIMUM MARKS 100
1	912622104001	ABINAYA.E	06	12	11	29
2	912622104002	ABIRAMI.C	08	18	14	30
3	912622104003	AJITHA.M	10	18	28	56
4	912622104004	AKSHAYA.M	08	09	18	35
5	912622104005	ANANTHI.K	10	32	26	68
6	912622104006	ASIYA.A	09	19	24	52
7	912622104007	ATCHAYA.B	15	33	36	84
8	912622104008	BARJUSHFATHIMA.P	10	29	24	63
9	912622104009	BAVADHARANI.S	05	11	09	25
10	912622104010	DEVADHARSHINI.P	12	22	29	63
11	912622104011	DEVI SRI.R	10	23	25	58
12	912622104012	DHANALAKSHMI.G	05	06	07	18
13	912622104013	DHANASRI.E	14	27	33	74
14	912622104014	FEMINA.M	09	22	23	54
15	912622104015	GOMATHI.P	12	19	20	51
16	912622104016	GOPIKA SRI.Y	11	23	25	59
17	912622104017	INBA.M	10	21	23	54
18	912622104018	ISHWARYA.S	12	23	25	61
19	912622104019	JAMEELA.M.A	19	37	34	90
20	912622104020	JEEVITHA.S	14	32	36	82
21	912622104021	KAVIPRIYA.S	13	22	23	58
22	912622104022	KAVIYAPRIYA.P	16	36	30	82
23	912622104023	KAVIYARASI.M	14	25	28	67
24	912622104024	KEERTHANA.S(9.10.2004)	13	21	26	60
25	912622104025	KEERTHANA.S(29.8.2005)	12	19	19	50
26	912622104026	KRISHNAVENI.C	09	26	15	50
27	912622104027	LAKSHMI PRIYA.D	16	29	09	54
28	912622104028	LALITHAMBIGAI.K	16	34	36	86
29	912622104029	LATHIKA.G	05	20	32	57
30	912622104030	MADHUMITHRA.D	08	11	15	34
31	912622104031	MAHALAKSHMI.K	14	26	33	73
32	912622104032	MANIMEGALAI.V	11	24	33	68

33	912622104033	MANJULA.R	17	36	38	91
34	912622104034	MEENAKUMARI.K	06	12	09	27
35	912622104035	NANDHINI PRIYA.N	00	11	06	17
36	912622104036	POORANI.S	06	09	18	33
37	912622104037	PRADEEPA.P	11	18	33	62
38	912622104038	PRIYADARSHINI.K	01	06	02	09
39	912622104039	PRIYADHARSHINI.D	17	22	37	76
40	912622104040	ROHINI.N	11	09	02	22

MARK RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
03	05	03	02	11	07	03	05	01

Total Number of Present	40
Total Number of Absent	NIL
Total Number of Candidates Pass	29
Total Number of Candidates Fail	11
Pass Percentage	72.5%

Signature Of the Faculty Incharge

HOD /S&H 28/2/23

Principal 28/2/21

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and affiliated to Anna University, Chennai)

KAIKKURICHI, PUDUKKOTTAI – 622 303

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2018 – 2019 (ODD SEMESTER)

STUDENTS MARK STATEMENT- CO BASED CYCLE TEST-I

SUBJECT CODE &TITLE: CS8392 – OBJECT ORIENTED PROGRAMMING

YEAR/SEM: II YEAR & III SEMESTER   **MONTH & YEAR: JULY 2018**

S.NO	REG NO	STUDENT NAME	CO1 (19)	CO2 (31)	TOTAL (50)	TOTAL (100)
1.	912617104001	ADAIKKALAJAYASRI J	15	24	39	78
2.	912617104002	AKILA S	14	31	45	90
3.	912617104003	BAVANI V	18	30	48	95
4.	912617104004	DHANALAKSHMI S	19	21	40	79
5.	912617104005	INDUMATHI S	14	29	43	85
6.	912617104006	KARTHIKA S	10	27	37	73
7.	912617104007	KAYATHRI K	18	20	38	76
8.	912617104008	MULLAIYARASI R	19	28	47	93
9.	912617104009	NISHADEVI G	11	10	21	42
10.	912617104010	PARAMESHWARI S	18	20	38	76
11.	912617104011	PERIYANAYAGI M	15	24	39	77
12.	912617104012	PRIYADARSHINI S	19	21	40	79
13.	912617104013	PRIYADHARSHINI C	19	21	40	80
14.	912617104014	PRIYATHARSHINI V	14	29	43	85
15.	912617104015	RIZWANA PARVEEN Z	18	30	48	95
16.	912617104017	SEETHALAKSHMI S	12	11	23	46
17.	912617104018	VAHINI D	16	30	46	91
18.	912617104019	VINOTHA P	14	29	43	85
19.	912617104301	JAYA PREETHA C	15	26	41	81
20.	912617104302	RAJA LAKSHMI R	15	24	39	78
21.	912617104303	SANGEETHA S	15	28	43	86
22	912617104701	NAVINA N	19	20	39	77

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Kaikkurchi - 622 303, Pudukkottai Dt.

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
0	0	0	02	0	0	10	06	04

Total No.of Candidates Present	22
Total No.of Candidates Absent	00
Total No.of Students Pass	20
Total No. of Students Fail	02
Percentage of Pass	90%

SIGNATURE OF THE FACULTY IN-CHARGE

HOD / CSE
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

01/08/18

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

Dr. S.THILAGAVATHI M.E.,Ph.D.,
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Kaikkurchi - 622 303, Pudukkottai Dt.

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
(Approved by AICTE, New Delhi and affiliated to Anna University, Chennai)
KAIKKURICHI, PUDUKKOTTAI – 622 303
DEPARTMENT OF INFORMATION TECHNOLOGY
ACADEMIC YEAR 2018 – 2019 (ODD SEMESTER)
STUDENTS MARK STATEMENT- CO BASED
CYCLE TEST-I
SUBJECT CODE &TITLE: CS8392 – OBJECT ORIENTED PROGRAMMING

YEAR/SEM: II YEAR & III SEMESTER　　　　　　**MONTH & YEAR: JULY 2018**

S.NO	REG NO	STUDENT NAME	CO1 (19)	CO2 (31)	TOTAL (50)	TOTAL (100)
1.	912617205001	ANUSHIYA.T	15	23	38	75
2.	912617205002	GAYADHRI.S	18	22	40	80
3.	912617205003	KALAIVANI.K	17	26	43	85
4.	912617205004	MARYSELCIYA.S	19	29	48	95
5.	912617205005	MERCY KIRUBA.C	15	23	38	75
6.	912617205006	RUPASRI.M	17	26	43	85
7.	912617205007	SHANMATHI.S	16	22	38	75
8.	912617205008	VINODHINI.M	19	29	48	96
9.	LE IT 01	HEMALATHA A	10	28	38	75

MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
0	0	0	0	0	0	5	2	2

Total No.of Candidates Present	9
Total No.of Candidates Absent	00
Total No.of Students Pass	9
Total No. of Students Fail	00
Percentage of Pass	100%

SIGNATURE OF THE FACULTY IN-CHARGE　　　　　HoD/IT　　　　PRINCIPAL
[G.BHUVANESHWARI]　　　　　　　　　　　　[R.VIJAY]

Dr. S.THILAGAVATHI M.E.,Ph.D.,　　　　HOD / IT　　SRI BHARATHI ENGINEER
PRINCIPAL　　　　　　　　SRI BHARATHI ENGINEERING　COLLEGE FOR WOMEN
SRI BHARATHI ENGINEERING　　COLLEGE FOR WOMEN
COLLEGE FOR WOMEN　　　　　KAIKKURICHI
Kaikkurchi - 622 303, Pudukkottai; Dt.　　PUDUKKOTTAI - 622 303.

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURICHI, PUDUKKOTTAI – 622 303
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2019 – 2020 (ODD SEMESTER)
STUDENTS MARK STATEMENT- CO BASED
CYCLE TEST-I
SUBJECT CODE &TITLE: CS8592 – OBJECT ORIENTED ANALYSIS AND DESIGN

YEAR/SEM: III YEAR & V SEMESTER   **MONTH & YEAR:** JULY 2019

S.NO	REG NO	STUDENT NAME	CO1 (43)	CO2 (47)	CO3 (10)	TOTAL (100)
1.	912617104001	ADAIKKALAJAYASRI J	35	46	6	77
2.	912617104002	AKILA S	32	38	9	79
3.	912617104003	BAVANI V	43	40	10	93
4.	912617104004	DHANALAKSHMI S	0	0	0	0
5.	912617104005	INDUMATHI S	43	29	9	81
6.	912617104006	KARTHIKA S	31	36	8	75
7.	912617104007	KAYATHRI K	43	24	10	77
8.	912617104008	MULLAIYARASI R	37	30	8	75
9.	912617104009	NISHADEVI G	32	34	10	76
10.	912617104010	PARAMESHWARI S	28	38	10	76
11.	912617104011	PERIYANAYAGI M	33	36	10	79
12.	912617104012	PRIYADARSHINI S	35	30	10	75
13.	912617104013	PRIYADHARSHINI C	35	31	9	75
14.	912617104014	PRIYATHARSHINI V	39	32	8	79
15.	912617104015	RIZWANA PARVEEN Z	38	35	9	82
16.	912617104017	SEETHALAKSHMI S	35	30	10	75
17.	912617104018	VAHINI D	40	31	9	81
18.	912617104019	VINOTHA P	43	33	8	84
19.	912617104301	JAYA PREETHA C	38	30	10	78
20.	912617104302	RAJA LAKSHMI R	37	40	10	87
21.	912617104303	SANGEETHA S	43	43	10	96
22	912617104701	NAVINA N	41	31	9	81
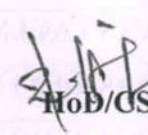
Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.
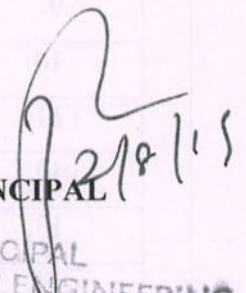
MARKS RANGE:

<20	20-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
0	0	0	0	0	0	13	6	2

Total No.of Candidates Present	22
Total No.of Candidates Absent	01
Total No.of Students Pass	21
Total No. of Students Fail	00
Percentage of Pass	100%

FACULTY INCHARGE

HoD/CSE

1/8/2019

HOD / IT
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI
PUDUKKOTTAI - 622 303.

PRINCIPAL

2/8/15

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI 622 303.
PUDUKKOTTAI DISTRICT

Dr. S.THILAGAVATHI M.E.,Ph.D.,
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SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Circular for Retest

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
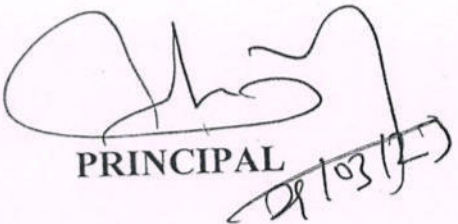
KAIKKURICHI, PUDUKKOTTAI – 622 303.

<u>Circular</u>   Date: 29.03.2023

Retest for First cycle test will be conducted from 03.04.2023 to 8.04.2023 for the IV, VI & VIII semester (II, III & IV year) students.

The following instructions are to be followed by the faculty members.

- Total marks for which the question paper to be set will be for 50 marks.
  (PART A 5X2=10, **PART B** 2X13=26 **& PART C** 1X14=14)
- It is the responsibility of the **question paper** setter to take the Xerox copies of the required number of question papers.
- Concerned Faculty members are requested to conduct the examination as per the schedule and handover the valued answer scripts to the students on or before 10.04.2023.

PRINCIPAL

Cc:
- All HoD'S /CIVIL/CSE/EEE/ECE
- All faculty
- IQAC Co-ordinator
- Exam cell
- Office file

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURICHI, PUDUKKOTTAI – 622 303.

Circular

Date: 29.03.2023

Retest for First cycle test will be conducted from 03.04.2023 to 8.04.2023 for the IV semester (II year) B.E students for 50 marks as per the time table given below. Students are directed to prepare well and score good marks.
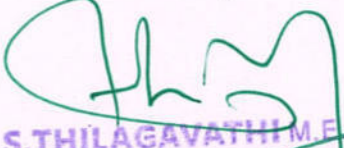
Date	4.00 pm -5.30 pm
03-04-2023	CE3401- Applied Hydraulics Engineering (CIVIL) CS3491- Artificial Intelligence and Machine Learning (CSE) EE3402- Linear Integrated Circuits(EEE) EC3491- Communication Systems(ECE)
04-04-2023	CE3403- Concrete Technology (CIVIL) CS3492- Database Management Systems (CSE) EE3404- Microprocessor and Microcontroller(EEE) EC3401- Network and Security(ECE)
05-04-2023	CE3405- Highway and Railway Engineering (CIVIL) CS3401- Algorithms (CSE) EE3403- Measurements & Instruments(EEE) EC3492- Digital Signal Processing(ECE)
06-04-2023	CE3404 Soil Mechanics (CIVIL) CS3451- Introduction to Operating Systems (CSE) EE3405- Electrical Machines-II(EEE) EC3451- Linear Integrated Circuits(ECE)
07-04-2023	CE3402 -Strength Of Materials (CIVIL) CS3452- Theory of Computation(CSE) EE3401- Transmission and Distribution(EEE) EC3452- Electromagnetic Fields(ECE)
08-04-2023	GE3451- Environmental Science and Sustainability(CIVIL/CSE/EEE/ECE)

PRINCIPAL

Cc:
- All II year B.E Classes
- All faculty
- IQAC Co-ordinator
- Exam cell
- Notice Board
- Office file

Dr. S.THILAGAVATHI M.E., Ph.D.,
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SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURICHI, PUDUKKOTTAI – 622 303.

Circular

Date: 29.03.2023
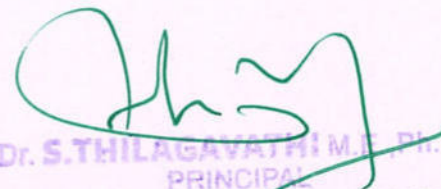
Retest for First cycle test will be conducted from 03.04.2023 to 8.04.2023 for the VI semester (III year) B.E students for 50 marks as per the time table given below. Students are directed to prepare well and score good marks.

Date	4.00 pm -5.30 pm
03-04-2023	CE8601- Design of Steel Structural Elements (CIVIL) CS8602- Compiler Design (CSE) EE8691- Embedded Systems (EEE) EC8651- Transmission Lines and RF Systems (ECE)
04-04-2023	CS8601- Mobile Computing (CSE) MG8591- Principles of Management (ECE) EE8601- Solid State Drives (EEE)
05-04-2023	EN8592- Wastewater Engineering(CIVIL) CS8691- Artificial Intelligence (CSE) EE8005-Special Electrical Machines (EEE) EC8652- Wireless Communication (ECE)
06-04-2023	CE8602-Structural Analysis II (CIVIL) CS8603- Distributed Systems (CSE) EE8602- Protection and Switchgear (EEE) EC8691- Microprocessors and Microcontrollers (ECE)
07-04-2023	CE8604- Highway Engineering (CIVIL) CS8651- Internet Programming (CSE) EC8095- VLSI Design (ECE)
08-04-2023	CE8603- Irrigation Engineering (CIVIL)

PRINCIPAL 29/03/23

Cc:
- All III year B.E Classes
- All faculty
- IQAC Co-ordinator
- Exam cell
- Notice Board
- Office file

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

Circular

Date: 29.03.2023

Retest for First cycle test will be conducted on 03.04.2023 & 04.04.2023 for the VIII semester (IV Year) B.E students for 50 marks as per the time table given below. Students are directed to prepare well and score good marks.

Date	4.00 pm -5.30 pm
03-04-2023	CE8021-Structural Dynamics and Earthquake Engineering (CIVIL) CS8080-Information retrieval Techniques (CSE) EE8018-Microcontroller Based System Design (EEE) EC8094- Satellite Communication (ECE)
04-04-2023	GE8076-Profession Ethics in Engineering (CIVIL/CSE/EEE/ECE)

PRINCIPAL 29/03/23

Cc:
- All IV year B.E Classes
- All faculty
- IQAC Co-ordinator
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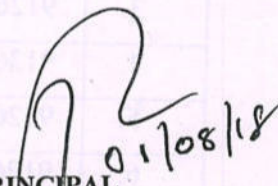COLLEGE FOR WOMEN
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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
KAIKKURICHI, PUDUKKOTTAI – 622 303.

<u>Circular</u>   Date: 06.06.2023

The First cycle test will be conducted from **17.06.2023** to **26.06.2023** for the II semester (I year) students.

The following instructions are to be followed by the faculty members.

- Total marks for which the question paper to be set will be for 100 marks. **(PART A 10X2=20 PART B 5X16=80) and (PART A 10X2=20 PART B 5X13=65 & PART C 1X15=15 for Department Paper)**

- It is the responsibility of the **question paper** setter to take the Xerox copies of the required number of question papers and it should be handed over to the Exam cell Coordinators Ms. G.Gayathri AP/ CIVIL / Mrs. G. Sugapriya AP/CSE along with **answer key** on or before **14.06.2023**.

- The Exam Coordinators (exam cell) are requested to make necessary arrangements (hall arrangements, invigilation duty etc.,) for conducting the test.

- Faculty members are requested to handover the valued answer scripts to the students on or before **27.06.2023** and the class in-charges are requested to send the consolidated mark sheet along with the attendance percentage (from 10th May 2023 to 26th June 2023) to the parents on or before **28.06.2023**.

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Cc:
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KAIKKURICHI, PUDUKKOTTAI – 622 303.

Circular

Date: 06.06.2023

The First cycle test will be conducted from **17.06.2023 to 26.06.2023**
for the II semester (I year) B.E students for **100 marks** as per the time table given
below. Students are directed to prepare well and score good marks.

Date & Session	1.00 pm -4.00 pm
17.06.2023 & AN	**BE3252**-Basic Electrical, Electronics and Instrumentation Engineering (CIVIL) **BE3251**-Basic Electrical and Electronics Engineering (CSE) **BE3255**-Basic Civil and Mechanical Engineering(EEE) **BE3254**-Electrical and Instrumentation Engineering (ECE)
19.06.2023 & AN	**MA3251**-Statistics and Numerical Methods (CIVIL,CSE,EEE & ECE)
20.06.2023 & AN	**PH3201**-Physics for Civil Engineering (CIVIL) **PH3256**-Physics for Information Science (CSE) **PH3202**-Physics for Electrical Engineering (EEE) **PH3254**-Physics for Electronics Engineering (ECE)
21.06.2023 & AN	**GE3251**-Engineering Graphics (CIVIL,CSE,EEE & ECE)
22.06.2023 & AN	**HS3252**-Professional English – II (CIVIL,CSE,EEE & ECE)
23.06.2023 & AN	**CS3251**-Programming in C (CSE) **EE3251**-Electric Circuit Analysis (EEE) **EC3251**-Circuit Analysis (ECE)
26.06.2023 & AN	**GE3252**-Tamils and Technology (CIVIL,CSE,EEE & ECE)

PRINCIPAL 06/06/23

Cc:
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- All faculty
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Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Retest Question Paper Model

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Cycle test – I-Retest			Date/Session	07.08.2018/AN	Marks	50
Course code	CE6504	Course Title	HIGHWAY ENGINEERING			
Regulation	2013	Duration	90 minutes	Academic Year	2018-2019(Odd Sem)	
Year	III	Semester	V	Department	Civil	

COURSE OUTCOMES

C304.1	Explain significance of highway planning, model limitations towards sustainability.
C304.2	Illustrate cross sectional elements, sight distances, horizontal curves, super elevation & transition curves.
C304.3	Demonstrate design principles of flexible & rigid pavements.
C304.4	Explain highway construction materials, properties, testing methods & CBR test for subgrade.
C304.5	Describe pavement distress in flexible and rigid pavaments & pavement management system.
C304.6	Illustrate skid resistance, structural evaluation & evaluation by deflection measurements.

Q.No.	Question	CO	BTL
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	Difference between Telfords and Macadam method of road construction.	**C304.1**	K2
2	Define camber.	**C304.2**	K2
3	Define SSD.	**C304.2**	K2
4	What are the roles of MORTH?	**C304.2**	K2
5	Define the term alignment and state its types.	**C304.1**	K2
6	What are the special features of Roman roads?	**C304.1**	K2
7	Write a short note about National Transport Policy Committee.	**C304.1**	K1
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
8.a	Describe briefly about second twenty year road plan.	**C304.1**	K2
	OR		
8.b	Briefly explain the role of IRC in highway development.	**C304.1**	K2
9.a	Briefly explain about NHAI and CRRI.	**C304.1**	K2
	OR		
9.b	Explain the requirements of ideal highway alignment.	**C304.1**	K2
	PART C **(Answer all the Questions 1 x 10 = 10 Marks)**		
10.a	Caculate the length of transition curve and shift using the following data: i. Design speed = 70KMPH & Radius of circular curve = 100m ii. Pavement width including extra widening = 6.5m iii. Allowable rate of introduction of super elevation = 1in 125	**C304.2**	K3
	OR		

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10.b	The design speed of the vehicle is 80kmph and the co efficient of friction is 0.45. if the total reaction time of the driver is 3.5 seconds. Calculate,
	
	   i) SSD for two way lane road.
	   ii) SSD for single lane road
	   iii) SSD for two way two lane road with an ascending gradient of 2%
	       SSD for two way two lane road with the breaking efficiency of 75%
		C304.2	K3

Course Faculty

(Name /Sign / Date)

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Cycle Test – I (Retest)			Date/Session	10.08.2018/AN	Marks		50
Course code	EE8391	Course Title	ELECTROMAGNETIC THEORY				
Regulation	2017	Duration	90 minutes	Academic Year		2018-2019	
Year	II	Semester	III	Department		EEE	

COURSE OUTCOMES

CO1:	Comprehend the basic mathematical concepts related to electromagnetic vector fields.
CO2:	Discuss the basic concepts about electrostatic fields, electrical potential, energy density and their applications.
CO3:	Explain the magneto static fields, magnetic flux density, vectorpotential and its applications.
CO4:	Describe the different methods of emf generation and Maxwell's equations.
CO5:	Demonstrate the basic concepts of electromagnetic waves and characterizing parameter.
CO6:	Illustrate and compute Electromagnetic fields and apply them for design andanalysis of electrical equipment and systems.

Q.No.	Question	CO	BTS
	PART A **(Answer all the Questions 5 x 2 = 10 Marks)**		
1	Mention any two sources of electromagnetic fields.	C203.1	K1
2	Define curl of a vector.	C203.1	K1
3	Define potential.	C203.1	K1
4	What is the use of Gauss's Law?	C203.1	K2
5	Write down the magnetic boundary conditions.	C203.2	K2
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
6a	Using Gauss's law calculate the E due to infinitely large uniformly charged plate.	C203.1	K1
	OR		
6b	What are the different co-ordinate system used to represent field vectors? Discuss about them in brief.	C203.1	K1
7a	State and prove Gauss's Law.	C203.1	K1
	OR		
7b	Derive the electric boundary conditions.	C203.1	K1
	PART C **(Answer all the Questions 1 x 14 = 14 Marks)**		
8a	Derive an expression for capacitance between two parallel wires.	C203.2	K2
	OR		
8b	Discuss Electric field in free space, dielectric and in conductors.	C203.2	K2

A. Barth
9/8/18

Course Faculty

(Name /Sign / Date)

[Mr. A ABDUL BASEETH]

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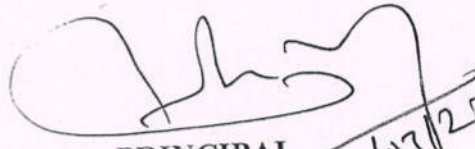**(Name /Sign / Date)**

[Mrs. S. SUSILADEVI]
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CYCLE TEST– II (RETEST)			Date/Session	17.09.2018/AN	Marks	50
Course code	EC6503	Course Title	TRANSMISSION LINES AND WAVEGUIDES			
Regulation	2013	Duration	90 Minutes	Academic Year		2018-2019
Year	III	Semester	V	Department		ECE

COURSE OUTCOMES

C303.1	To Discuss the propagation of signals through transmission lines
C303.2	To analyze signal propagation at Radio frequencies.
C303.3	To impart technical knowledge in impedance matching using smith chart
C303.4	To introduce passive filters and basic knowledge of active RF components
C303.5	To explain radio propagation in guided systems
C303.6	To utilize cavity resonators.

Q.No.	Question	CO	BTL
	PART A (Answer all the Questions 7 x2 = 14 Marks)		
1	What are the applications of smith chart?	C303.3	K2
2	Distinguish between single stub and double stub matching.	C303.3	K1
3	Write the expression for location of the stub in single stub matching.	C303.3	K1
4	Define skin depth.	C303.3	K1
5	Define critical frequency.	C303.5	K1
6	Give the expression for g, b,l and n of TE and TM waves in parallel plate waves guides.	C303.5	K1
7	What is the characteristics impedance of a symmetrical Π Section?	C303.5	K2
	PART B (Answer all the Questions 2 x 13 = 26 Marks)		
8a	Derive the expression for quarter wave transformer and mention its important applications.	C303.3	K3
	OR		
8b	A 50 Ω lossless transmission line is terminated in a load impedance of ZL=30+j40 Ω. Use the smith chart to find a) Voltage reflection co-efficient b)VSWR c) input impedance of the line given that the line is 1.25γ long and c) input admittance of the line.	C303.3	K3
9a	Derive the field component of a transverse electric wave in rectangular waveguides.	C303.5	K3
	OR		
9b	For a frequency of 10 GHz and plane separation of 5 cm in air, find the cut-off frequency,cut off wavelength phase velocity and group velocity of the wave.	C303.5	K3
	PART C (Answer all the Questions 1 x 10 = 10 Marks)		
10	Explain the significance of smith chart and its applications.	C303.3	K2

Course Faculty
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(M.SATHYA)

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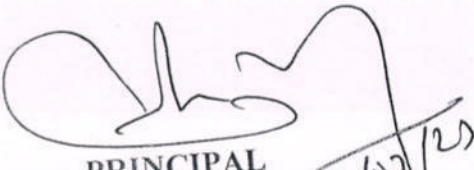COLLEGE FOR WOMEN
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Cycle test – II (Retest)			Date/Session	14.11.2018/AN	Marks		50
Course code	CY8151	Course Title	Engineering chemistry				
Regulation	2017	Duration	1.30 hours	Academic Year		2018-2019	
Year	2018	Semester	I	Department		CSE	

COURSE OUTCOMES

CO104.1:	Summarize the water related problems in boilers and their treatment techniques.
CO104.2:	Discuss the applications of adsorption in the field of water and air pollution abatement.
CO104.3:	Discuss the types of catalysis and the mechanism of enzyme catalysis
CO104.4:	Associate phase rule in the alloying and the behavior of one component and two component systems using phase diagram
CO104.5:	Explain various types of fuels, their manufacturing processes and calculation of calorific theoretically
CO104.6:	Summarize the principles and generation of energy in batteries ,nuclear reactors, solar cells, wind mills and fuel cells

Q.No.	Question	CO	BTS
	PART A (Answer all the Questions 10 x 2 = 20 Marks)		
1	What is heterogeneous catalysis? Give example..	CO104.2	K2
2	What is an acid base catalysis? Give examples.	CO104.2	K2
3	Write Michaelis –Menton equation and explain the terms involved.	CO104.2	K1
4	Define turn over number.	CO104.2	K1
5	What is nichrome? Give its composition and uses.	CO104.3	K2
6	What is annealing? Explain its types.	CO104.3	K2
7	Define phase (p) with suitable example.	CO104.3	K3
8	What is a metastable equilibrium in water system?	CO104.3	K2
9	What are the limitations of phase rule?	CO104.3	K2
	PART B (Answer all the Questions 2 x 16 = 20 Marks)		
10a	(i) Write the following with suitable examples a)Heterogeneous catalysis b)Acid –base catalysis.	CO104.2	K1
	OR		
10b	(i) Mention important characteristic features of enzyme catalysis. (ii)Mention the important applications of catalysts.	CO104.2	K1
11a	(i) Define alloy and discuss the functions and effect of alloying of metals with examples. (ii)What are the purposes of alloy making? Illustrate with suitable examples.	CO104.3	K2
	OR		
11b	(i) State phase rule and explain the terms involved in it. (ii)Explain the one-component water system in detail with neat diagram.	CO104.3	K2

Course Faculty 12/11/18

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Cycle Test- I-Retest			Date/Session	05.02.2020/AN	Marks		50
Course code	CE8601	Course Title	DESIGN OF STEEL STRUCTURAL ELEMENTS				
Regulation	2017	Duration	90 minutes	Academic Year		2019-2020(Even Sem)	
Year	III	Semester	VI	Department		Civil	

COURSE OUTCOMES

C310.1	explain the concepts of various design philosophies
C310.2	Design common bolted and welded connections for steel structures
C310.3	Design tension members and explain the effect of shear lag.
C310.4	explain the design concept of axially loaded columns and column base connections.
C310.5	explain specific problems related to the design of laterally restrained and unrestrained steel beams.
C310.6	Design of purlin in roof trusses and also design channel and I section purlins

Q.No.	Question	CO	BTL
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	Recall the recommendations as per IS 800:2007 the minimum pitch bolts in a row.	C310.1	K1
2	What is the allowable deflection of purlins and girts as per IS 800:2007 for the elastic cladding?	C310.1	K2
3	Are all imposed loads, gravity loads? Justify.	C310.2	K2
4	What is mean by composite construction?	C310.2	K2
5	What is tension splice.	C310.1	K2
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
6.a	Explain about the partial safety factor for loads with respect to strength and serviceability and partial safety factors for materials for limit state method.	C310.1	K2
	OR		
6.b	What is mean by hot rolled sections? List out any 5 numbers of hot rolled sections with neat sketch and mark their salient features.	C310.1	K3
7.a	Explain the advantages of steel as a structural material.	C310.1	K3
	OR		
7.b	Explain the types of loads on structures and load combinations with respect to the code of practice.	C310.1	K3
	PART C **(Answer all the Questions 1 x 14 = 14 Marks)**		
8.a	Two flats of size 220mm x10mm each are to be connected using 20mm diameter bolt of grade 4.6 by lap joint to carry fgorce of 300KN. Design the joint. Take steel of grade Fe 410	C310.2	K3
	OR		
8.b	Design a lap between the two plates each of width 120mm, if the thickness of one plate is 16mm and other is 12mm . the joint has to transfer a design load of 160KN. The plates are of Fe 410 Grade.use bearing type bolts	C310.2	K3

G. ~ 03/02/2020
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Cycle Test– I (Retest)			Date/Session	25.09.2019	Marks	50
Course code	MA8151	Course Title	Engineering Mathematics-I			
Regulation	2017	Duration	01.30 hours	Academic Year		2019-2020
Year	I	Semester	I	Department		CSE

COURSE OUTCOMES

C102.1:	Apply the limit definition and rules of differentiation to differentiate functions.
C102.2:	Apply differentiation to solve maxima and minima problems.
C102.3:	Evaluate integrals both by using Riemann sums and by using the Fundamental Theorem of Calculus.
C102.4:	Apply integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables.
C102.5:	Evaluate integrals using techniques of integration, such as substitution, partial fractions and integration by parts.
C102.6:	Apply various techniques in solving differential equations.

Q.No.	Question	CO	BTS
	PART A		
	(Answer all the Questions 9 x 2 = 18 Marks)		
1	Find the domain of the range of the function defined by the co ordinates {(-4,1), (-2,2.5),(3,-2)}.	C102.1	K3
2	Find $\lim_{x \to 0} \frac{e^x - 1}{x}$.	C102.1	K3
3	Evaluate the following $\lim_{x \to 0} \frac{x^3 - 8}{x - 2}$.	C102.1	K3
4	Find the maxima and minima of the function $2x^3 - 3x^2 - 36x + 10$.	C102.1	K3
5	Find the Jacobian of the transformation $u = \frac{2x - y}{2}, v = \frac{y}{2}$.	C102.2	K3
6	Find $\frac{du}{dt}$ if $u = \frac{x}{y}$ where $x = e^t, y = \log t$.	C102.2	K3
7	Find $\frac{dy}{dx}$ when $x^3 + y^3 = 3axy$.	C102.2	K3
8	Properties of jacobians.	C102.2	K3
9	If $x = r\cos\theta, y = r\sin\theta$ find $\frac{\partial(x,y)}{\partial(r,\theta)}$	C102.2	K3
	PART B		
	(Answer all the Questions 2 x 16 = 32 Marks)		
11a	(i)If $f(x) = \begin{cases} \frac{x^2 - 4}{x - 2} & if\ x < 2 \\ ax^2 - bx + 3 & if\ 2 \leq x < 3 \\ 2x - a + b & if\ x \geq 3 \end{cases}$ is continuous for all real x, find the values of a and b. (08) (ii) Evaluate $\lim_{x \to \frac{\pi}{2}} (cosx)^{cosx}$. (08)	C102.1	K3
	OR		
11b	(i) If $= log\left(\frac{1 - sinx}{1 + sinx}\right)$ find $\frac{dy}{dx}$. (08) (ii)Evaluate $\lim_{x \to 0}\left[\frac{1}{x} - \frac{1}{e^x - 1}\right]$. (08)	C102.1	K3
12a	(i)If $r^2 = x^2 + y^2$ then show that $\frac{\partial^2 r}{\partial x^2} = \frac{1}{r}\left[\left(\frac{\partial r}{\partial x}\right)^2 + \left(\frac{\partial r}{\partial y}\right)^2\right]$. (08) (ii)If $logu = \frac{x^3 + y^3}{3x + 4y}$ then show that $x\frac{\partial u}{\partial x} + y\frac{\partial u}{\partial y} = 2u log u$. (08)	C102.2	K3
	OR		

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12b	(i) Find $\frac{du}{dx}$, if $u = x \log xy$ where $x^3 + y^3 + 3xy = 1$.	(08)	C102.2	K3
	(ii) If $x = u \cos v, y = u \, sinv$, show that $JJ' = 1$.	(08)		

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Cycle Test – III (Retest)			Date/Session	23.10.2019/FN	Marks		50
Course code	EE8351		Course Title	DIGITAL LOGIC CIRCUITS			
Regulation	2017		Duration	90 minutes	Academic Year		2019-2020
Year	II		Semester	III	Department		EEE

COURSE OUTCOMES

CO1:	Comprehend various number systems and simplify the logical expressions using Boolean functions.
CO2:	Explain about the combinational circuits.
CO3:	Design various synchronous sequential circuits.
CO4:	Develop the asynchronous sequential circuits.
CO5:	Describe about PLDs and FPGA.
CO6:	Demonstrate the digital simulation for development of application oriented logic circuits.

Q.No.	Question	CO	BTS
	PART A **(Answer all the Questions 5 x 2 = 10 Marks)**		
1	What is state equivalence theorem?	C202.4	K1
2	What is pulse mode circuit?	C202.4	K1
3	What is Switch-level modeling?	C202.4	K1
4	List the different techniques used for state assignment.	C202.5	K1
5	What are identifiers?	C202.5	K1
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
6a	Describe the steps involved in design of asynchronous sequential circuit in detail with an example.	C202.4	K2
	OR		
6b	i) Write program in HDL to design 2 bit up/down counter. ii) Write the HDL program for 2:1 multiplexer in Dataflow and Behavioural description.	C202.4	K2
7a	Write the VHDL program for 4 bit counter.	C202.5	K2
	OR		
7b	Explain the various modeling methods used in VHDL with an example.	C202.5	K2
	PART C **(Answer all the Questions 1 x 14 = 14 Marks)**		
8a	i)Draw the VLSI design flowchart used for IC design and fabrication. ii) Write down a VHDL code for 8:1 multiplexer.	C202.5	K2
	OR		
8b	i)Differentiate PAL and PLA implementations with the help of the same example $F_2(a,b,c) = \Sigma(0,1,3,4,6,7)$. ii) Design a Modulo-6 asynchronous binary up-counter	C202.5	K2

R. R. H 22/10/19
Course Faculty
(Name /Sign / Date)

(Mrs. R. RAGADHARSHINI)

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HoD 22/10/19
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Cycle Test – I(RETEST)			Date/Session	02.08.19/AN	Marks		50
Course code	EC8553	Course Title	DISCRETE TIME SIGNAL PROCESSING				
Regulation	2017	Duration	2 HOURS	Academic Year		2019-2020	
Year	III	Semester	V	Department		ECE	

COURSE OUTCOMES

C302:1	To learn discrete Fourier transforms, properties of DFT and its application to linear filtering
C302:2	To analyze the characteristics of digital filters, design digital IIR and FIR filters and apply these filters to filter undesirable signals in various frequency bands.
C302:3	To describe the effects of finite precision representation on digital filters
C302:4	To evaluate the fundamental concepts of finite word length effects and its applications
C302:5	Explain the functionalities and architecture of DSP processors.
C302:6	To Introduce the concepts of adaptive filters and its application to communication Engineering

Q.No.	Question	CO	BTS
	PART A **(Answer all the Questions 05 x 2 = 10 Marks)**		
1	What is meant by decimation in frequency algorithm	C302.1	K1
2	Identify the advantages of FFT over DFT.	C302.1	K1
3	State and prove periodicity property of DFT	C302.1	K2
4	How can we calculate IDFT using FFT algorithm	C302.1	K1
5	Give the bilinear transform equation between S-plane and Z-plane.	C302.2	K4
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
11a	Compute the DFT of the sequence whose values for one period is given by $x(n) = \{1, 1, -2, -2\}$. (13)	C302.1	K1
	OR		
11b	Compute 8-point DFT of the following sequence using radix-2 DIF algorithm. $x(n) = \{0, 1, 2, 3, 4, 5, 6, 7\}$ (13)	C302.1	K1
12a	Determine the circular convolution of the sequence $x_1(n)=\{1,2,3,1\}$ and $x_2(n)=\{2,2,3,4\}$ using FFT algorithm (13)	C302.1	K1
	OR		
12b	Find the 8-point DFT of the sequence $x(n)=\{2,2,2,2,1,1,1,1\}$ using DIT FFT algorithm (13)	C302.1	K1
	PART C **(Answer all the Questions 1 x 14 = 14 Marks)**		
13a	Design a third order Butterworth digital filter using impulse invariant technique. Assume sampling period T=1sec: (14)	C302.2	K2
	OR		
13b	Design a Butterworth LPF for the following specification using IIT method for given normalized transfer function. $0.7 \leq \lvert H(e^{jw}) \rvert \leq 1;\ 0 \leq w \leq 0.2\pi$ $\lvert H(e^{jw}) \rvert \leq 0.3;\ 0.6\pi \leq w \leq \pi$ (14)	C302.2	K2

01/8/19
Course Faculty
(Name /Sign / Date)

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HoD
HOD / ECE

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CYCLE TEST - I RETEST			Date/Session	7.10.2021	Marks		50
Course code	EE8301	Course Title	ELECTRICAL MACHINES I				
Regulation	2017	Duration	90 minutes	Academic Year		2021 - 2022	
Year	II	Semester	III	Department		EEE	

COURSE OUTCOMES	
C204.1	Ability to analyses the magnetic-circuits.
C204.2	Ability to acquire the knowledge in constructional details of transformers.
C204.3	Ability to comprehend the concepts of electromechanical energy conversion
C204.4	Ability to gain the knowledge in working principles of DC Generator
C204.5	Ability to infer the knowledge in working principles of DC Motor
C204.6	Ability to summarize the knowledge in various losses taking place in D.C. Machines

Q.No.	Question	CO	BTS
	PART A (Answer all the Questions 10 x 2 = 20 Marks)		
1	Outline the factors on which eddy current loss depends.	C204.1	K2
2	Define mutual-inductance.	C204.1	K1
3	Formulate the concept of self-inductance.	C204.1	K6
4	List the application of equivalent circuit of transformer?	C204.2	K2
5	Defend the reason behind copper saving in auto transformer.	C204.2	K5
	PART B (Answer all the Questions 2 x 13 = 26 Marks)		
06a	With the circuit diagram explain the sumpner test and how to obtain the efficiency of a transformer	C204.2	K6
	OR		
06b	Explain in detail the operation of transformer. Derive its EMF equation	C204.2	K6
07a	Explain the mmf in a single coil winding	C204.3	K2
	OR		
07b	Explain the mmf in a distributed winding	C204.3	K2
	PART C (Answer all the Questions 1 x 14 = 14 Marks)		
08	Explain in detail AC Operation of magnetic circuits.	C204.1	K1

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Mrs. B. PRIYA

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Cycle test – I(RETEST)			Date/Session	21.01.2022/AN	Marks		50
Course code	MA3151	Course Title	MATRICES AND CALCULUS				
Regulation	2021	Duration	1.30 hours	Academic Year		2021-22	
Year	I	Semester/Sec	I/B	Department		CIVIL,ECE,EEE	

COURSE OUTCOMES

C102.1	Use the matrix algebra methods for solving practical problems.
C102.2	Apply differential calculus tools in solving various application problems.
C102.3	Describe the partial differential equations with initial and Lagrange's method by using certain techniques with engineering applications.
C102.4	Carry out the differentiation to solve maxima and minima problems.
C102.5	Explain different methods of integration in solving practical problems.
C102.6	Determine multiple integral ideas in solving areas, volumes and other practical problems.

Q.No.	Question	CO	BTS
	PART A		
	(Answer all the Questions 9 x 2 = 18 Marks)		
1	Find the Eigenvalues of the matrix $\begin{bmatrix} 1 & -2 \\ -5 & 4 \end{bmatrix}$.	C102.1	K3
2	The product of two eigenvalues of the matrix $A = \begin{bmatrix} 6 & -2 & 2 \\ -2 & 3 & -1 \\ 2 & -1 & 3 \end{bmatrix}$ is 16. Find the third eigenvalue	C102.1	K3
3	What is the nature of the quadratic form $x^2 + y^2 + z^2$ in three variables?	C102.1	K2
4	If $A = \begin{bmatrix} 1 & 0 \\ 0 & 5 \end{bmatrix}$, then find $2A^2 - 12A + 10I$.	C102.1	
5	If $x^2 + y^2 = 25$, then find $\frac{dy}{dx}$.	C102.2	K3
6	Sketch the graph of function $\|x\| = \begin{cases} x & , if\ x > 0 \\ -x, & if\ x < 0 \end{cases}$	C102.2	K1
7	If $f(x) = xe^x$ then find expression for $f''(x)$.	C102.2	K3
8	Find the critical point of $y = 5x^3 - 6x$	C102.2	K3
9	State the extreme value theorem.	C102.2	K1
	PART B		
	(Answer all the Questions 2 x 16 = 32 Marks)		
11a	(i) Find the Eigenvalues and Eigenvectors of the matrix $\begin{bmatrix} 2 & -2 & 2 \\ 1 & 1 & 1 \\ 1 & 3 & -1 \end{bmatrix}$.	C102.1	K3
	(ii) Find cayley- Hamilton theorem and find its inverse of $\begin{pmatrix} 1 & 2 & -2 \\ 2 & 5 & -4 \\ 3 & 7 & -5 \end{pmatrix}$		
	OR		
11b	Diagonalise the matrix $\begin{bmatrix} 8 & -6 & 2 \\ -6 & 7 & -4 \\ 2 & -4 & 3 \end{bmatrix}$ and hence find A^4.	C102.1	K3

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12a	(i)Find the local maxima of the function $f(x) = 2x^3 + 3x^2 - 36x$, using first derivative test	C102.2	
	ii)Find the local maximum and minimum of $f(x) = \sqrt{x} - \sqrt[4]{x}$.		K3
	OR		
12b	ii) Find the interval of concavity and the inflexion points $f(x) = 2x^3 + 3x^2 - 36x$.	C102.2	K3

Course Faculty

Nithya (N.vithya)

(Name /Sign / Date)

HoD

(Name /Sign / Date)

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Cycle Test – II - Retest			Date/Session	25.05.2022/AN	Marks	50
Course code	CE8021	**Course Title**	Structural Dynamics & Earthquake Engineering			
Regulation	2017	**Duration**	90 minutes	**Academic Year**	2021-2022(Even Sem)	
Year	IV	**Semester**	VIII	**Department**	Civil	

COURSE OUTCOMES : Students will be able to

C409.1	Explain about the various simulation and mathematical model development.
C409.2	Explain the process of identify, formulate and solve complicated problem.
C409.3	Explain the role of natural calamity in the damage of structures.
C409.4	Develop the skill to analyse data and to apply the same in the practical problems.
C409.5	Apply the developed methodologies for the safe and stable design of structures.
C409.6	Design earthquake resistant structures using IS codes.

Q.No.	Question	CO	BTL
	PART A **(Answer all the Questions 5 x 2 = 10 Marks)**		
1	What is meant by fundamental frequency?	C409.2	K2
2	What is meant by multi degrees of freedom system?	C409.2	K2
3	What are the causes of earthquake?	C409.3	K2
4	Classify the types of fault.	C409.3	K1
5	Classify the types of earthquake.	C409.3	K1
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
6a	Explain the orthogonality and normality principles.	C409.2	K2
	OR		
6b	Explain the concept of modal superposition method.	C409.2	K2
7a	A cantilever bar is to be modelled by a massless uniform bar to which are attached with two lumped masses representing the mass of original system as k= 2AE/L & m=μAE. Determine the natural frequencies of the system and mode shape of the system.	C409.2	K3
	OR		
7b	Evaluate the natural frequency and mode shape for the two degrees of undamped system	C409.2	K3
	PART C **(Answer all the Questions 1 x 14 = 14 Marks)**		
8a	Explain about the types of seismic waves with neat sketches.	C409.3	K2
	OR		
8b	Explain about the characteristics of strong ground motion.	C409.3	K2

Course Faculty 23/5/22
(Name /Sign / Date)

[R.PADMA RANI]

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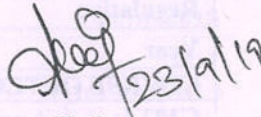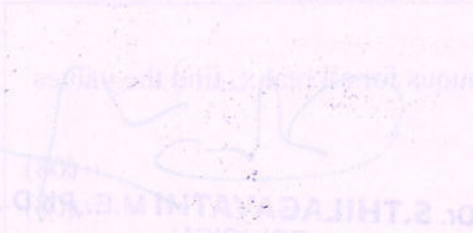(Name /Sign / Date)

[R. MANJO]

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CYCLE TEST – II(RETEST)		Date/Session	30.05.2022/AN	Marks	50
Course code	EC8453	Course Title	LINEAR INTEGRATED CIRCUITS		
Regulation	2017	Duration	90 Minutes	Academic Year	2021-2022
Year	II	Semester	IV	Department	ECE

COURSE OUTCOMES

C214:1	To analyze the basic building blocks of linear integrated circuits
C214:2	To learn the linear and non-linear applications of operational amplifiers
C214:3	To introduce the theory and applications of analog multipliers and PLL
C214:4	To learn the theory of ADC and DAC
C214:5	To introduce the concepts of waveform generation and
C214:6	To analyze the special function ICs

Q.No.	Question	CO	BTL
	PART A (Answer all the Questions 5 x 2 = 10 Marks)		
1	Classify the A/D converters based on their operational features.	C214.4	K4
2	State the main advantages of integrating type ADCs	C214.4	K1
3	Compare the advantages and drawbacks of a dual slope ADC.	C214.4	K4
4	Why VCO is also called as V to F converter	C214.3	K2
5	Explain how a frequency double can be realized using analog multiplier.	C214.3	K2
	PART B (Answer all the Questions 2 x 13 = 26 Marks)		
11a	Analyze the Gilbert's four quadrant multiplier cell with a neat circuit diagram.	C214.3	K4
	OR		
11b	Justify the following applications of Analog Multiplier ICs	C214.3	K4
12a	Derive the following Digital to Analog & Analog to Digital conversion techniques	C214.4	K3
	OR		
12b	Calculate 4-bit R-2R ladder D/A converter assume that the full scale voltage is 16V .Calculate the step change in output voltage on input varying from 01111 to 1111. Discuss the important specification of Data Converters	C214.4	K3
	PART C (Answer all the Questions 1 x 14 = 14 Marks)		
13a	Explain detail about Differentiator and compare ideal and practical Differentiator.	C214.3	K2
	OR		
13b	Discuss circuit of temperature independent logarithmic and antilogarithmic amplifier and explain its operation. Alsodeduce the expression for output voltage.	C214.3	K2

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[V. NITHYA POORANI/AP,ECE]
(Name /Sign / Date)

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HoD 25/5/22
(Name /Sign / Date)
[R. YOGESHWARI]
HOD / ECE
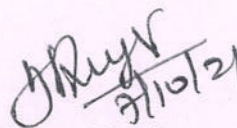SRI BHARATHI ENGINEERING
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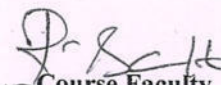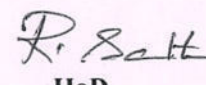
Cycle test – II (Retest)			Date/Session	06.03.2023 /AN	Marks	50
Course code	PH3151	Course Title	ENGINEERING PHYSICS			
Regulation	2021	Duration	1.30 hours	Academic Year	2022 - 2023	
Year	I	Semester	I	Department	All Branches	

COURSE OUTCOMES

C103.1	Acknowledge the importance of mechanics.
C103.2	Express their knowledge in electromagnetic waves.
C103.3	Demonstrate a strong foundational knowledge in oscillations, optics and lasers.
C103.4	Establish a strong foundational knowledge in fiber optics and laser
C103.5	Comprehend the importance of quantum physics.
C103.6	Comprehend and apply quantum mechanical principles towards the formation of energy bands.

Q.No.	Question	CO	BTS
	PART A **(Answer all the Questions 9 x 2 = 18 Marks)**		
1	State the law of refraction.	C103.4	K2
2	Define Damped oscillations	C103.3	K1
3	What are the properties of matter waves?	C103.5	K2
4	State de-Broglie's hypothesis.	C103.5	K2
5	What is meant by Degenerate and non- degenerate.?	C103.5	K2
6	What is meant by correspondence principle? Give example.	C103.5	K2
7	What do you understand the term 'Wave function".	C103.5	K2
8	What do you understand by the term Transmission Co-efficient	C103.6	K2
9	State Bloch's theorem.	C103.6	K2
	PART B **(Answer all the Questions 2 x 16 = 32 Marks)**		
11a	Describe an experiment to determine the thickness of a thin material by forming an Air Wedge	C103.4	K2
	OR		
11b	Explain the formation of standing waves at various interval of time	C103.4	K2
12a	Derive the eigen values for a particle in a finite square well potential	C103.6	K3
	OR		
12b	Write a brief note on Bloch's theorem for particles in a periodic potential and Kronig penney model	C103.6	K3

Course Faculty 3/3/23
(Name /Sign / Date)
R. SARATHA

HoD
(Name /Sign / Date)
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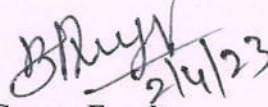
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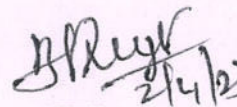
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CYCLE TEST - I RETEST			Date/Session	3.4.2023	Marks		50
Course code	EE8018	Course Title	MICROCONTROLLER BASED SYSTEM DESIGN				
Regulation	2017	Duration	90 minutes	Academic Year		2022-23	
Year	IV	Semester	VIII	Department		EEE	

COURSE OUTCOMES	
C410.1	Explain about understand and apply computing platform and software for engineering problems.
C410.2	Comprehend the concepts of Architecture of PIC microcontroller.
C410.3	Discuss on basics concept of Interrupts and timers.
C410.4	Describe about the importance of Peripheral devices for data communication.
C410.5	Demonstrate about the basics of sensor interfacing.
C410.6	Illustrate the Architecture of ARM processors.

Q.No.	Question	CO	BTS
	PART A **(Answer all the Questions 10 x 2 = 20 Marks)**		
1	Difference between 8051 and PIC.	C410.1	K3
2	What are the benefits of having RISC architecture?	C410.1	K1
3	What do you mean by Brown out Reset?	C410.2	K1
4	Define Subroutine.	C410.2	K2
5	What is the necessity of prescalar in the timer operation?	C410.3	K1
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
06a	Draw and explain about the architecture of PIC microcontroller.	C410.2	K2
	OR		
06b	Explain the addressing modes of PIC microcontroller.	C410.2	K2
07a	Explain the interrupt structure of PIC microcontroller with neat diagram.	C410.3	K2
	OR		
07b	In detail give an account on Timer programming, RAM/ROM allocation in PC.	C410.3	K2
	PART C **(Answer all the Questions 1 x 14 = 14 Marks)**		
08	Explain the modes of Timer 1 of PICl6C6x microcontroller with block diagram. Also explain the function of associated registers.	C410.3	K2

Course Faculty

(Mrs. B. PRIYA)

(Name /Sign / Date)

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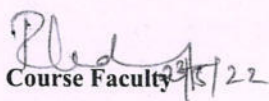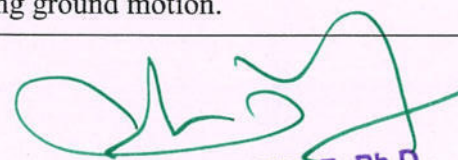### Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Cycle Test – I – Retest			Date/Session	06.04.23/AN	Marks		50
Course code	CE3404	Course Title	Soil Mechanics				
Regulation	2021	Duration	90 minutes	Academic Year		2022-2023 (Even Sem)	
Year	II	Semester	IV	Department		Civil	

COURSE OUTCOMES: At the end of the course student will be able to

C213.1	Explain the formation of soil and its unified classification system, formulate and solve engineering Problems.
C213.2	Describe the two dimensional flow through soil medium and its impact of engineering solution.
C213.3	Explain the basic concept of stress distribution in loaded soil medium and soil settlement due to consolidation.
C213.4	Illustrate the shear strength of cohesive and cohesion less soils and also will be aware of contemporary issues on shear strength of soils.
C213.5	Describe the stability analysis of finite slopes, component and process as per needs and specifications.
C213.6	Describe the stability analysis of infinite slopes and its failures protection measures.

Q.No.	Question	CO	BTL
	PART A **(Answer all the Questions 5 x 2 = 10 Marks)**		
1	Define Water content.	C213.1	K1
2	What is Porosity?	C213.1	K2
3	Define shrinkage ratio.	C213.2	K1
4	Define plasticity index, flow index and liquidity index.	C213.2	K1
5	Write any two engineering classification system of soil.	C213.2	K1
	PART B **(Answer all the Questions 2 x 13 = 26 Marks)**		
6a	A soil sample 5 cm in length and 60 cm in cross-sectional area, water percolates through the sample in 10 minutes is 480 ml under a constant head of 40 cm. Weight of oven dried sample is 498 gm and specific gravity of soil = 2.65. Calculate: (i) Coefficient of permeability (ii) Seepage velocity..	C213.2	K3
	OR		
6b	An earthen embankment of 10^6 m^3 volume is to be constructed with a soil having a void ratio of 0.80 after compaction. There are three borrow pits marked A, B and C having soils with voids ratios of 0.90, 0.50 and 1.80 respectively. The cost of excavation and transporting the soil is Rs0.25, Rs 0.23 and Rs 0.18 per m^{3}respectively. Calculate the volume of soil to be excavated from each pit. Which borrow pit is the most economical?	C213.2	K3
7a	Explain the factors affecting compaction of soil.	C213.1	K2
	OR		
7b	Explain Indian Standard soil classification system of coarse grained soil.	C213.1	K2
	PART C **(Answer all the Questions 1 x 14 = 14 Marks)**		
8a	Granular soil in a borrow pit has unit weight of solids as 25.8 kN/m^3 water content equal to 11% and bulk unit weight equal to 16.4 kN/m^3.How many cubic meter of compacted fill could be constructed of 3500 m^3 of sand excavated from borrow pit, if required value of porosity in the compacted fill is 30%. Also calculate the change in degree of saturation.	C213.1	K3

OR			
8b	A laboratory compaction test on soil having specific gravity equal to 2.67 gave a maximum dry unit weight of 17.8 kN/m^3 and a water content of 15%. Determine the degree of saturation, air content and percentage air voids at the maximum dry unit weight. What would be theoretical maximum dry unit weight corresponding to zero air voids at the optimum water content?	C213.1	K3

Course Faculty

(Name /Sign / Date)

{RACI. MAHIZHINI}

HoD/Civil

(Name /Sign / Date)

R. PADMA Roni

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Web Portal Assessment Report

Inst Code & Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Branch Code / Name : 104 : B.E. Computer Science and 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
912621104001	ABINAYA K	CS3401						35	37	50	37	38	68
		CS3451						23	23	50	19	22	67
		CS3452						22	23	50	22	22	75
		CS3461									42	45	91
		CS3481									42	45	92
		CS3491						36	37	50	38	38	71
		CS3492						20	23	72	20	22	77
		GE3451						14	15	79	14	15	65
		NCCXX1											
		SB8021									45	91	45
912621104002	AMEERA N	CS3401						30	37	96	33	38	93
		CS3451						21	23	81	19	22	91
		CS3452						23	23	90	21	22	91
		CS3461									39	45	95
		CS3481									39	45	95
		CS3491						3	37	88	35	38	92
		CS3492						21	23	86	21	22	83
		GE3451						15	15	96	15	15	89
		NCCXX1											
		SB8023									45	95	45
912621104003	ANJUGAM C	CS3401						29	37	70	36	38	62
		CS3451						19	23	64	20	22	81
		CS3452						18	23	78	18	22	70
		CS3461									39	45	89
		CS3481									36	45	91
		CS3491						29	37	54	37	38	70
		CS3492						19	23	72	21	22	68
		GE3451						15	15	73	14	15	67
		NCCXX1											
		SB8021									45	91	45
912621104004	ARUNDATHI S	CS3401						37	37	87	34	38	81
		CS3451						21	23	74	21	22	90
		CS3452						21	23	87	18	22	93
		CS3461									45	45	95
		CS3481									45	45	95
		CS3491						29	37	74	36	38	94
		CS3492						21	23	74	20	22	80
		GE3451						14	15	96	13	15	88
		NCCXX1											
		SB8021									45	96	45
912621104005	ASHIKA B	CS3401						31	37	80	31	38	72
		CS3451						20	23	87	19	22	76
		CS3452						20	23	89	19	22	81
		CS3461									42	45	89
		CS3481									42	45	92
		CS3491						33	37	68	36	38	89
		CS3492						20	23	77	19	22	79
		GE3451						13	15	89	15	15	91
		NCCXX1											
		SB8021									45	91	45
912621104006	DIVYA T	CS3401						34	37	53	35	38	62
		CS3451						19	23	50	19	22	58
		CS3452						18	23	58	18	22	64

Inst Code & Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Reg No / Name	Subject						
	CS3461				45	45	88
	CS3481				36	45	90
	CS3491	32	37	38	37	38	65
	CS3492	19	23	60	19	22	65
	GE3451	15	15	77	14	15	56
	NCCXX1						
	SB8021				45	92	45
912621104007 ELACKIYA G	CS3401	31	37	83	37	38	74
	CS3451	20	23	68	20	22	78
	CS3452	18	23	76	21	22	73
	CS3461				39	45	90
	CS3481				39	45	92
	CS3491	29	37	68	37	38	79
	CS3492	19	23	81	21	22	71
	GE3451	14	15	77	13	15	68
	NCCXX1						
	SB8021				45	93	45
912621104008 GAYATHRI K	CS3401	32	37	73	33	38	64
	CS3451	21	23	50	18	22	74
	CS3452	18	23	57	18	22	73
	CS3461				39	45	89
	CS3481				39	45	90
	CS3491	29	37	58	34	38	77
	CS3492	19	23	71	20	22	75
	GE3451	15	15	93	14	15	70
	NCCXX1						
	SB8021				45	91	45
912621104009 GEETHA M	CS3401	30	37	62	38	38	75
	CS3451	20	23	68	19	22	63
	CS3452	18	23	75	19	22	74
	CS3461				39	45	88
	CS3481				36	45	89
	CS3491	29	37	56	34	38	67
	CS3492	19	23	75	21	22	69
	GE3451	13	15	85	14	15	62
	NCCXX1						
	SB8021				45	90	45
912621104010 HARSHITHA P	CS3401	35	37	99	36	38	92
	CS3451	22	23	93	21	22	92
	CS3452	21	23	96	18	22	98
	CS3461				42	45	95
	CS3481				39	45	95
	CS3491	36	37	90	35	38	86
	CS3492	20	23	83	20	22	82
	GE3451	15	15	93	13	15	81
	NCCXX1						
	SB8024				45	96	45
912621104011 ISHWARYA S	CS3401	35	37	76	36	38	84
	CS3451	22	23	89	18	22	88
	CS3452	23	23	84	20	22	95
	CS3461				39	45	94
	CS3481				39	45	93
	CS3491	35	37	73	36	38	90
	CS3492	23	23	83	21	22	83
	GE3451	15	15	96	12	15	85
	NCCXX1						
	SB8021				45	96	45
912621104012 JANANI R	CS3401	34	37	68	34	38	72

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Inst Code & Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

	CS3451	21	23	53	19	22	73
	CS3452	22	23	50	22	22	76
	CS3461				42	45	89
	CS3481				36	45	89
	CS3491	36	37	56	35	38	69
	CS3492	20	23	67	19	22	75
	GE3451	15	15	79	13	15	68
	NCCXX1						
	SB8021				45	90	45
912621104015 LAVANYA S	CS3401	29	37	53	35	38	67
	CS3451	20	23	50	19	22	64
	CS3452	21	23	50	18	22	68
	CS3461				39	45	88
	CS3481				42	45	90
	CS3491	31	37	50	37	38	63
	CS3492	18	23	50	20	22	66
	GE3451	15	15	78	14	15	61
	NCCXX1						
	SB8021				45	90	45
912621104016 MAHASREE P	CS3401	36	37	68	37	38	72
	CS3451	23	23	50	20	22	62
	CS3452	23	23	64	20	22	68
	CS3461				42	45	87
	CS3481				42	45	89
	CS3491	37	37	59	36	38	80
	CS3492	21	23	71	20	22	72
	GE3451	14	15	82	14	15	77
	NCCXX1						
	SB8021				45	90	45
912621104018 PRIYA M	CS3401	37	37	82	38	38	71
	CS3451	23	23	67	21	22	68
	CS3452	23	23	76	22	22	77
	CS3461				45	45	90
	CS3481				45	45	96
	CS3491	37	37	56	38	38	81
	CS3492	23	23	77	21	22	75
	GE3451	15	15	84	13	15	76
	NCCXX1						
	SB8021				45	92	45
912621104019 RABIKA R	CS3401	35	37	64	34	38	63
	CS3451	21	23	50	19	22	60
	CS3452	20	23	50	20	22	63
	CS3461				42	45	88
	CS3481				42	45	89
	CS3491	33	37	50	34	38	68
	CS3492	20	23	50	20	22	73
	GE3451	15	15	84	13	15	79
	NCCXX1						
	SB8021				45	90	45
912621104021 SAHEENA BEGAM A	CS3401	33	37	99	35	38	91
	CS3451	22	23	50	21	22	91
	CS3452	21	23	97	22	22	96
	CS3461				42	45	95
	CS3481				39	45	93
	CS3491	37	37	94	37	38	92
	CS3492	18	23	82	20	22	80
	GE3451	14	15	91	14	15	85
	NCCXX1						

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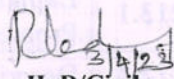**Inst Code & Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

Reg No & Name	Subject						
	SB8023				45	97	45
912621104022 SASIPRIYA R	CS3401	36	37	88	36	38	88
	CS3451	23	23	80	22	22	80
	CS3452	23	23	82	18	22	93
	CS3461				45	45	95
	CS3481				45	45	94
	CS3491	37	37	70	37	38	90
	CS3492	21	23	82	21	22	74
	GE3451	15	15	84	14	15	65
	NCCXX1						
	SB8023				45	96	45
912621104023 SHAMIMA P	CS3401	31	37	96	38	38	92
	CS3451	22	23	87	21	22	90
	CS3452	22	23	99	21	22	98
	CS3461				42	45	95
	CS3481				39	45	95
	CS3491	36	37	89	37	38	92
	CS3492	21	23	88	21	22	81
	GE3451	14	15	95	13	15	83
	NCCXX1						
	SB8023				45	95	45
912621104024 SHEERA BANU A	CS3401	31	37	50	35	38	71
	CS3451	18	23	50	17	22	65
	CS3452	18	23	67	20	22	73
	CS3461				39	45	88
	CS3481				36	45	92
	CS3491	28	37	50	32	38	63
	CS3492	18	23	58	21	22	67
	GE3451	15	15	75	14	15	75
	NCCXX1						
	SB8021				45	90	45
912621104025 SIVAJOTHIKA S	CS3401	37	37	90	38	38	91
	CS3451	23	23	74	22	22	78
	CS3452	23	23	82	19	22	86
	CS3461				45	45	94
	CS3481				45	45	96
	CS3491	37	37	74	38	38	78
	CS3492	23	23	83	21	22	79
	GE3451	15	15	80	15	15	79
	NCCXX1						
	SB8021				45	97	45
912621104026 SIVAPRIYA R	CS3401	31	37	67	31	38	75
	CS3451	18	23	50	19	22	61
	CS3452	21	23	50	19	22	72
	CS3461				42	45	89
	CS3481				42	45	91
	CS3491	34	37	65	36	38	60
	CS3492	20	23	70	20	22	71
	GE3451	13	15	82	15	15	59
	NCCXX1						
	SB8021				45	90	45
912621104027 SUBHA DHARSHINI S	CS3401	35	37	88	34	38	92
	CS3451	22	23	83	19	22	85
	CS3452	23	23	50	18	22	96
	CS3461				42	45	95
	CS3481				42	45	94
	CS3491	37	37	90	36	38	91
	CS3492	23	23	87	21	22	85

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Reg No & Name	Course						
	GE3451	14	15	95	14	15	82
	NCCXX1						
	SB8023				45	97	45
912621104028 SUBIKSHA S	CS3401	29	37	66	33	38	62
	CS3451	18	23	50	18	22	72
	CS3452	18	23	50	18	22	67
	CS3461				39	45	89
	CS3481				36	45	89
	CS3491	29	37	50	31	38	64
	CS3492	18	23	67	19	22	76
	GE3451	14	15	78	14	15	59
	NCCXX1						
	SB8025				45	96	45
912621104029 VINITHA K	CS3401	32	37	53	35	38	64
	CS3451	18	23	50	22	22	57
	CS3452	18	23	50	18	22	67
	CS3461				39	45	87
	CS3481				36	45	88
	CS3491	31	37	50	37	38	61
	CS3492	19	23	61	19	22	73
	GE3451	15	15	76	13	15	58
	NCCXX1						
	SB8021				45	90	45
912621104030 VISALATCHI S	CS3401	35	37	50	37	38	70
	CS3451	20	23	50	18	22	62
	CS3452	20	23	70	21	22	58
	CS3461				45	45	86
	CS3481				36	45	88
	CS3491	33	37	52	36	38	65
	CS3492	18	23	72	20	22	73
	GE3451	15	15	78	14	15	58
	NCCXX1						
	SB8021				45	90	45
912621104301 VAISHNAVI B	CS3401	32	37	74	35	38	74
	CS3451	22	23	61	18	22	75
	CS3452	23	23	81	20	22	85
	CS3461				45	45	89
	CS3481				39	45	94
	CS3491	36	37	71	34	38	89
	CS3492	23	23	69	20	22	78
	GE3451	15	15	82	13	15	72
	NCCXX1						
	SB8021				45	96	45
912621104302 VISHNUPRIYA A	CS3401	30	37	82	33	38	85
	CS3451	22	23	72	19	22	69
	CS3452	19	23	86	18	22	80
	CS3461				42	45	90
	CS3481				42	45	95
	CS3491	36	37	81	34	38	79
	CS3492	19	23	73	19	22	80
	GE3451	14	15	79	14	15	72
	NCCXX1						
	SB8021				45	95	45
912621104701 AARTHI S	CS3401	33	37	66	34	38	64
	CS3451	21	23	50	21	22	62
	CS3452	20	23	52	17	22	67
	CS3461				42	45	88
	CS3481				39	45	91

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	CS3491	34	37	50	37	38	76
	CS3492	19	23	63	19	22	76
	GE3451	15	15	82	13	15	57
	NCCXX1						
	SB8021				45	91	45
912621104702 SWATHI A R	CS3401	34	37	83	37	38	92
	CS3451	23	23	81	21	22	82
	CS3452	22	23	86	18	22	96
	CS3461				39	45	95
	CS3481				39	45	95
	CS3491	36	37	50	36	38	94
	CS3492	22	23	85	20	22	86
	GE3451	15	15	85	12	15	80
	NCCXX1						
	SB8021				45	98	45

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COLLEGE FOR WOMEN
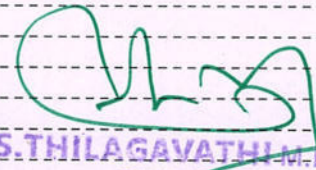Kaikkurchi - 622 303, Pudukkottai Dt.

ANNA UNIVERSITY :: CHENNAI - 600 025
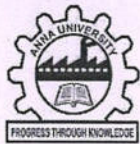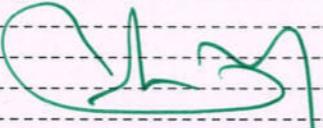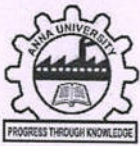## OFFICE OF THE CONTROLLER OF EXAMINATIONS
Assessment Details Entered
APRIL / MAY EXAMINATION,2022 - EXAMINATIONS

Inst Code & Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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
912620106001	ABIRAMI S	EC8451	13	14	14	16	95	16	16	90	12	14	88
		EC8452	10	11	10	12	88	11	11	88	10	11	93
		EC8453	10	11	10	12	97	11	12	97	9	10	97
		EC8461									60	60	98
		EC8462									60	60	98
		EC8491	11	12	10	11	98	11	11	98	9	11	98
		GE8291	10	11	11	12	91	11	12	92	9	10	91
		MA8451	13	14	14	16	98	15	16	97	12	14	95
912620106002	ANUSHYA M	EC8451	12	14	13	16	83	16	16	71	13	14	72
		EC8452	10	11	12	12	83	11	11	80	11	11	76
		EC8453	10	11	12	12	72	9	12	75	9	10	80
		EC8461									60	60	94
		EC8462									60	60	96
		EC8491	10	12	9	11	70	10	11	83	11	11	83
		GE8291	10	11	10	12	70	12	12	72	9	10	71
		MA8451	12	14	13	16	80	16	16	82	13	14	83
912620106003	ARTHI S	EC8451	12	14	13	16	82	12	16	72	13	14	76
		EC8452	8	11	9	12	82	9	11	72	10	11	73
		EC8453	8	11	9	12	73	9	12	74	8	10	77
		EC8461									54	60	93
		EC8462									57	60	92
		EC8491	9	12	9	11	70	9	11	71	10	11	79
		GE8291	8	11	9	12	79	9	12	70	8	10	72
		MA8451	12	14	13	16	70	13	16	71	13	14	75
912620106004	JEYASRI K	EC8451	12	14	13	16	80	16	16	70	13	14	86
		EC8452	10	11	11	12	84	10	11	76	11	11	88
		EC8453	10	11	10	12	77	11	12	80	9	10	93
		EC8461									60	60	97
		EC8462									60	60	97
		EC8491	10	12	11	11	90	11	11	74	11	11	89
		GE8291	10	11	11	12	90	12	12	83	9	10	89
		MA8451	12	14	13	16	88	15	16	70	14	14	93
912620106006	SENPAGAHARINI V	EC8451	13	14	16	16	85	16	16	76	13	14	83
		EC8452	9	11	11	12	85	11	11	70	10	11	79
		EC8453	9	11	11	12	77	10	12	86	10	10	92
		EC8461									57	60	96
		EC8462									57	60	95
		EC8491	9	12	10	11	80	11	11	88	10	11	72
		GE8291	9	11	12	12	88	12	12	74	10	10	90
		MA8451	13	14	16	16	80	16	16	88	14	14	88
912620106007	SONIYA P	EC8451	11	14	13	16	73	15	16	72	12	14	85
		EC8452	8	11	9	12	74	10	11	71	11	11	77
		EC8453	8	11	10	12	71	10	12	78	10	10	97
		EC8461									54	60	95
		EC8462									54	60	95
		EC8491	9	12	9	11	73	10	11	78	11	11	73
		GE8291	8	11	10	12	75	12	12	70	10	10	80
		MA8451	9	14	13	16	73	12	16	72	14	14	79
912620106301	ABITHA S	EC8451	11	14	15	16	73	13	16	70	12	14	76
		EC8452	10	11	11	12	76	10	11	70	10	11	73
		EC8453	10	11	11	12	77	11	12	70	9	10	73
		EC8461									60	60	92
		EC8462									60	60	94

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Inst Code & Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

	EC8491	10	12	10	11	71	10	11	70	10	11	71
	GE8291	10	11	11	12	70	11	12	70	9	10	73
	MA8451	11	14	15	16	70	15	16	70	12	14	70
912620106302 DESIKA G	EC8451	12	14	14	16	70	14	16	71	14	14	74
	EC8452	10	11	10	12	74	10	11	72	11	11	75
	EC8453	10	11	10	12	72	11	12	71	10	10	76
	EC8461									60	60	92
	EC8462									60	60	92
	EC8491	11	12	11	11	72	10	11	72	11	11	74
	GE8291	10	11	11	12	76	11	12	71	10	10	71
	MA8451	12	14	14	16	72	15	16	74	14	14	73
912620106303 SABAREESWARI S	EC8451	14	14	16	16	74	13	16	72	14	14	76
	EC8452	11	11	12	12	71	9	11	72	9	11	76
	EC8453	11	11	12	12	74	10	12	71	8	10	75
	EC8461									57	60	93
	EC8462									54	60	85
	EC8491	12	12	11	11	75	9	11	72	9	11	78
	GE8291	11	11	12	12	74	9	12	73	8	10	74
	MA8451	14	14	16	16	74	12	16	73	13	14	71
912620106304 SUBBULAKSHMI P	EC8451	11	14	13	16	71	13	16	71	11	14	73
	EC8452	8	11	9	12	73	9	11	73	9	11	71
	EC8453	8	11	10	12	71	10	12	70	8	10	72
	EC8461									46	60	70
	EC8462									49	60	85
	EC8491	9	12	9	11	70	9	11	70	8	11	75
	GE8291	8	11	10	12	70	10	12	74	8	10	70
	MA8451	9	14	12	16	71	13	16	71	11	14	72

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OFFICE OF THE CONTROLLER OF EXAMINATIONS
Assessment Details Entered
NOV. / DEC. EXAMINATION, 2019 [R-2017] - EXAMINATIONS

Inst Code & Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Branch Code / Name : 105 : B.E. Electrical and Electronics Engineering   University : AUC
Semester : 03

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
912618105001 AARTHI G	EC8311									60	60	98
	EC8353	12	12	12	12	89	11	13	85	10	10	89
	EE8301	15	15	15	15	85	14	16	85	14	15	90
	EE8311									57	60	98
	EE8351	14	14	15	16	85	16	18	85	12	13	91
	EE8391	15	15	16	16	85	15	17	90	13	14	91
	MA8353	16	16	14	15	89	15	17	85	11	12	85
	ME8792	11	11	12	12	91	11	13	86	12	12	85
912618105002 AASHA R	EC8311									60	60	98
	EC8353	12	12	12	12	92	13	13	89	10	10	92
	EE8301	15	15	15	15	89	16	16	89	15	15	96
	EE8311									60	60	99
	EE8351	14	14	15	16	87	17	18	89	13	13	95
	EE8391	15	15	16	16	90	16	17	95	14	14	95
	MA8353	16	16	15	15	91	16	17	86	12	12	91
	ME8792	11	11	12	12	94	12	13	92	12	12	89
912618105003 AGARI S	EC8311									60	60	99
	EC8353	11	12	12	12	90	13	13	87	10	10	88
	EE8301	13	15	15	15	87	16	16	83	14	15	91
	EE8311									60	60	98
	EE8351	12	14	16	16	85	18	18	86	13	13	94
	EE8391	14	15	16	16	88	17	17	90	14	14	93
	MA8353	14	16	15	15	89	17	17	82	12	12	89
	ME8792	11	11	12	12	89	13	13	86	12	12	86
912618105004 JEEVITHA R	EC8311									60	60	98
	EC8353	12	12	10	12	94	13	13	92	9	10	94
	EE8301	14	15	13	15	92	15	16	89	14	15	95
	EE8311									57	60	98
	EE8351	13	14	13	16	92	17	18	93	12	13	95
	EE8391	14	15	14	16	93	16	17	93	13	14	95
	MA8353	15	16	13	15	91	16	17	84	11	12	92
	ME8792	10	11	10	12	94	12	13	90	11	12	89
912618105005 NISHA K	EC8311									60	60	99
	EC8353	12	12	12	12	93	13	13	92	10	10	95
	EE8301	15	15	15	15	93	15	16	91	15	15	97
	EE8311									60	60	99
	EE8351	14	14	16	16	89	17	18	92	13	13	94
	EE8391	14	15	16	16	94	16	17	94	14	14	96
	MA8353	16	16	15	15	94	16	17	86	12	12	92
	ME8792	10	11	12	12	94	12	13	91	12	12	91
912618105006 RAMANA R	EC8311									60	60	99
	EC8353	12	12	12	12	92	12	13	91	10	10	91
	EE8301	15	15	15	15	89	15	16	90	15	15	94
	EE8311									60	60	99
	EE8351	14	14	16	16	85	17	18	90	13	13	92
	EE8391	15	15	16	16	92	16	17	93	14	14	93
	MA8353	16	16	15	15	89	16	17	85	12	12	89
	ME8792	11	11	12	12	92	11	13	89	12	12	91
912618105007 SNEHA S	EC8311									60	60	99
	EC8353	11	12	12	12	88	13	13	86	10	10	89
	EE8301	14	15	15	15	84	16	16	84	14	15	93
	EE8311									60	60	98
	EE8351	13	14	16	16	80	18	18	85	13	13	90

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Kaikkurchi - 622 303, Pudukkottai

Inst Code & Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

	EE8391	14	15	16	16	88	17	17	89	14	14	90
	MA8353	14	16	15	15	85	17	17	82	12	12	87
	ME8792	11	11	12	12	88	13	13	84	12	12	86
912618105301 VINOTHINI V	EC8311									57	60	98
	EC8353	5	6	12	12	85	13	13	85	10	10	87
	EE8301	5	7	15	15	82	15	16	83	13	15	90
	EE8311									57	60	97
	EE8351	5	7	16	16	80	17	18	83	13	13	90
	EE8391	5	7	16	16	83	16	17	86	14	14	87
	MA8353	5	7	15	15	82	16	17	80	12	12	85
	ME8792	5	6	12	12	87	13	13	83	12	12	84

ANNA UNIVERSITY :: CHENNAI - 600 025
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Assessment Details Entered
NOV. / DEC. EXAMINATION, 2018 - EXAMINATIONS

Inst Code & Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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

Semester : 05

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
912616103001 AARTHI G	CE6501	17	17	15	15	80	15	17	81	6	11	85
	CE6502	12	12	11	11	79	11	12	81	5	10	85
	CE6503	11	11	12	12	80	11	12	85	6	10	88
	CE6504	10	10	12	12	82	13	13	82	7	11	88
	CE6505	11	11	12	12	86	11	11	86	6	11	85
	CE6506	11	11	11	11	80	11	12	85	6	11	85
	CE6511									54	60	88
	CE6512									70	70	85
	GE6674									51	60	86
912616103002 ANANTHI S	CE6501	15	17	15	15	75	17	17	80	9	11	85
	CE6502	10	12	11	11	79	12	12	80	8	10	85
	CE6503	11	11	12	12	76	12	12	85	9	10	85
	CE6504	9	10	12	12	80	12	13	84	10	11	85
	CE6505	9	11	12	12	83	11	11	90	10	11	80
	CE6506	9	11	11	11	79	12	12	80	9	11	80
	CE6511									54	60	80
	CE6512									70	70	80
	GE6674									57	60	87
912616103003 ANUSIYA C	CE6501	16	17	15	15	80	17	17	83	4	11	85
	CE6502	11	12	11	11	84	12	12	85	3	10	75
	CE6503	11	11	12	12	82	12	12	89	4	10	75
	CE6504	9	10	12	12	85	13	13	88	4	11	75
	CE6505	9	11	12	12	89	11	11	80	11	11	75
	CE6506	10	11	11	11	82	12	12	80	4	11	75
	CE6511									45	60	81
	CE6512									70	70	83
	GE6674									57	60	85
912616103004 KANIMOZHI P	CE6501	16	17	15	15	85	15	17	82	11	11	85
	CE6502	11	12	11	11	79	12	12	80	9	10	85
	CE6503	11	11	12	12	80	11	12	85	10	10	87
	CE6504	9	10	12	12	82	13	13	92	11	11	86
	CE6505	9	11	12	12	83	9	11	83	11	11	90
	CE6506	10	11	11	11	88	11	12	80	11	11	85
	CE6511									57	60	89
	CE6512									70	70	88
	GE6674									60	60	84
912616103005 LAVANYA K	CE6501	17	17	14	15	85	17	17	83	11	11	85
	CE6502	12	12	10	11	84	12	12	80	9	10	85
	CE6503	11	11	12	12	85	12	12	85	9	10	90
	CE6504	10	10	11	12	89	13	13	90	11	11	90
	CE6505	11	11	12	12	89	11	11	85	11	11	85
	CE6506	11	11	11	11	86	12	12	80	11	11	85
	CE6511									60	60	85
	CE6512									70	70	93
	GE6674									57	60	88
912616103006 MASILAMANI M	CE6501	15	17	12	15	80	17	17	80	7	11	85
	CE6502	11	12	9	11	81	12	12	86	8	10	70
	CE6503	9	11	11	12	78	12	12	85	7	10	80
	CE6504	10	10	10	12	92	13	13	83	8	11	80
	CE6505	9	11	9	12	83	11	11	80	8	11	75
	CE6506	9	11	9	11	78	12	12	80	7	11	80
	CE6511									54	60	82
	CE6512									70	70	83
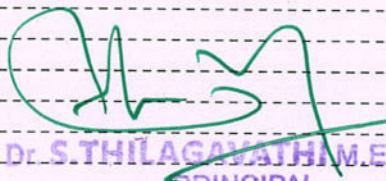
Dr. S.THILAGAVATHI., E.,Ph.D.,
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SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi- 622 303, Pudukkottai Dt.

Inst Code & Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Reg No / Name	Subject											
	GE6674									57	60	82
912616103007 MENAKA R	CE6501	17	17	14	15	96	17	17	90	11	11	85
	CE6502	12	12	11	11	90	12	12	92	9	10	90
	CE6503	10	11	11	12	92	12	12	95	10	10	95
	CE6504	10	10	12	12	96	13	13	96	11	11	95
	CE6505	11	11	11	12	90	11	11	90	11	11	90
	CE6506	11	11	10	11	90	12	12	90	11	11	90
	CE6511									57	60	93
	CE6512									70	70	95
	GE6674									60	60	90
912616103008 PRAVEENA M	CE6501	15	17	15	15	80	17	17	89	11	11	90
	CE6502	11	12	11	11	80	12	12	80	9	10	90
	CE6503	9	11	12	12	88	12	12	88	10	10	88
	CE6504	8	10	12	12	89	13	13	90	10	11	90
	CE6505	9	11	12	12	90	11	11	87	10	11	85
	CE6506	9	11	11	11	90	12	12	80	11	11	85
	CE6511									57	60	91
	CE6512									70	70	95
	GE6674									60	60	85
912616103301 GOWSIKA N	CE6501	17	17	14	15	80	15	17	80	10	11	90
	CE6502	12	12	11	11	80	12	12	85	9	10	85
	CE6503	11	11	11	12	80	11	12	85	9	10	85
	CE6504	8	10	11	12	85	12	13	92	11	11	85
	CE6505	10	11	11	12	88	9	11	83	10	11	85
	CE6506	11	11	10	11	86	11	12	86	10	11	85
	CE6511									57	60	86
	CE6512									70	70	92
	GE6674									60	60	86
912616103302 KALISWARI M	CE6501	16	17	14	15	82	16	17	90	9	11	90
	CE6502	11	12	9	11	89	12	12	90	8	10	90
	CE6503	9	11	10	12	89	12	12	95	8	10	95
	CE6504	8	10	11	12	94	12	13	92	10	11	95
	CE6505	10	11	10	12	92	11	11	96	9	11	92
	CE6506	10	11	9	11	92	11	12	90	9	11	90
	CE6511									54	60	95
	CE6512									70	70	95
	GE6674									54	60	84
912616103303 MAHESWARI M	CE6501	16	17	14	15	85	15	17	80	10	11	90
	CE6502	10	12	10	11	85	12	12	85	9	10	90
	CE6503	11	11	11	12	90	11	12	93	8	10	90
	CE6504	10	10	11	12	89	11	13	93	10	11	89
	CE6505	9	11	12	12	89	8	11	85	9	11	85
	CE6506	10	11	10	11	80	10	12	86	11	11	90
	CE6511									54	60	89
	CE6512									70	70	94
	GE6674									54	60	86
912616103304 SARATHAPRITHA S	CE6501	17	17	14	15	90	14	17	90	11	11	85
	CE6502	12	12	10	11	85	10	12	85	9	10	90
	CE6503	11	11	11	12	92	11	12	89	10	10	95
	CE6504	10	10	11	12	90	11	13	95	11	11	87
	CE6505	11	11	11	12	90	10	11	90	10	11	90
	CE6506	11	11	10	11	82	10	12	85	11	11	95
	CE6511									57	60	92
	CE6512									70	70	95
	GE6674									57	60	87

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Web Portal Internal Mark Report

College Code / Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Branch Code / Name : 104 - B.E. Computer Science and Engineering

Semester : 04 **University : AUC** **Regulation : 2021**

S.No	Register Number	Name	CS3401	CS3451	CS3452	CS3461	CS3481	CS3491	CS3492	GE3451	SB8021	SB8023	SB8024	SB8025
1	912621104001	ABINAYA K	30	23	25	55	55	30	30	29	45			
2	912621104002	AMEERA N	47	34	36	57	57	45	34	37		45		
3	912621104003	ANJUGAM C	33	29	30	53	55	31	28	28	45			
4	912621104004	ARUNDATHI S	42	33	36	57	57	42	31	37	45			
5	912621104005	ASHIKA B	38	33	34	53	55	39	31	36	45			
6	912621104006	DIVYA T	29	22	24	53	54	26	25	27	45			
7	912621104007	ELACKIYA G	39	29	30	54	55	37	30	29	45			
8	912621104008	GAYATHRI K	34	25	26	53	54	34	29	33	45			
9	912621104009	GEETHA M	34	26	30	53	53	31	29	29	45			
10	912621104010	HARSHITHA P	48	37	39	57	57	44	33	35			45	
11	912621104011	ISHWARYA S	40	35	36	56	56	41	33	36	45			
12	912621104012	JANANI R	35	25	25	53	53	31	28	29	45			
13	912621104015	LAVANYA S	30	23	24	53	54	28	23	28	45			
14	912621104016	MAHASREE P	35	22	26	52	53	35	29	32	45			
15	912621104018	PRIYA M	38	27	31	54	58	34	30	32	45			
16	912621104019	RABIKA R	32	22	23	53	53	30	25	33	45			
17	912621104021	SAHEENA BEGAM A	48	28	39	57	56	46	32	35		45		
18	912621104022	SASIPRIYA R	44	32	35	57	56	40	31	30		45		
19	912621104023	SHAMIMA P	47	35	39	57	57	45	34	36		45		
20	912621104024	SHEERA BANU A	30	23	28	53	55	28	25	30	45			
21	912621104025	SIVAJOTHIKA S	45	30	34	56	58	38	32	32	45			
22	912621104026	SIVAPRIYA R	36	22	24	53	55	31	28	28	45			
23	912621104027	SUBHA DHARSHINI S	45	34	29	57	56	45	34	35		45		
24	912621104028	SUBIKSHA S	32	24	23	53	53	28	29	27				45
25	912621104029	VINITHA K	29	21	23	52	53	28	27	27	45			
26	912621104030	VISALATCHI S	30	22	26	52	53	29	29	27	45			
27	912621104301	VAISHNAVI B	37	27	33	53	56	40	29	31	45			
28	912621104302	VISHNUPRIYA A	42	28	33	54	57	40	31	30	45			
29	912621104701	AARTHI S	32	22	24	53	55	32	28	28	45			
30	912621104702	SWATHI A R	44	33	36	57	57	36	34	33	45			

Dr. S.THILAGAVATHI M.E.,Ph.D.,
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COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pud...

24-05-2023

Anna University - COE

College Code / Name : **9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

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

Semester : 04   University : AUC   Regulation : 2017

S.No	Register Number	Name	EC8451	EC8452	EC8453	EC8461	EC8462	EC8491	GE8291	MA8451
1	912620106001	ABIRAMI S	18	18	19	20	20	20	18	19
2	912620106002	ANUSHYA M	15	16	15	19	19	16	14	16
3	912620106003	ARTHI S	15	15	15	19	18	15	15	14
4	912620106004	JEYASRI K	16	17	17	19	19	17	17	17
5	912620106006	SENPAGAHARINI V	16	16	17	19	19	16	17	17
6	912620106007	SONIYA P	15	15	16	19	19	15	15	15
7	912620106301	ABITHA S	15	15	15	18	19	14	14	14
8	912620106302	DESIKA G	14	15	15	18	18	15	15	15
9	912620106303	SABAREESWARI S	15	15	15	19	17	15	15	15
10	912620106304	SUBBULAKSHMI P	14	14	14	14	17	14	14	14

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COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukko

17-06-2022

College Code / Name   : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Branch Code / Name   : 105 - B.E. Electrical and Electronics Engineering

Semester : 03   University : AUC   Regulation : 2017

S.No	Register Number	Name	EC8311	EC8353	EE8301	EE8311	EE8351	EE8391	MA8353	ME8792
1	912618105001	AARTHI G	20	18	17	20	17	18	17	17
2	912618105002	AASHA R	20	18	18	20	18	19	18	18
3	912618105003	AGARI S	20	18	17	20	18	18	17	17
4	912618105004	JEEVITHA R	20	19	18	20	19	19	18	18
5	912618105005	NISHA K	20	19	19	20	18	19	18	18
6	912618105006	RAMANA R	20	18	18	20	18	19	18	18
7	912618105007	SNEHA S	20	18	17	20	17	18	17	17
8	912618105301	VINOTHINI V	20	17	17	19	17	17	16	17

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COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

College Code / Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Branch Code / Name : 103 - B.E. Civil Engineering

Semester : 05   University : AUC   Regulation : 2013

S.No	Register Number	Name	CE6501	CE6502	CE6503	CE6504	CE6505	CE6506	CE6511	CE6512	GE6674
1	912616103001	AARTHI G	16	16	17	17	17	17	18	17	17
2	912616103002	ANANTHI S	16	16	16	17	17	16	16	16	17
3	912616103003	ANUSIYA C	17	16	16	17	16	16	16	17	17
4	912616103004	KANIMOZHI P	17	16	17	17	17	17	18	18	17
5	912616103005	LAVANYA K	17	17	17	18	17	17	17	19	18
6	912616103006	MASILAMANI M	16	16	16	17	16	16	16	17	16
7	912616103007	MENAKA R	18	18	19	19	18	18	19	19	18
8	912616103008	PRAVEENA M	17	17	18	18	17	17	18	19	17
9	912616103301	GOWSIKA N	17	17	17	17	17	17	17	18	17
10	912616103302	KALISWARI M	17	18	19	19	19	18	19	19	17
11	912616103303	MAHESWARI M	17	17	18	18	17	17	18	19	17
12	912616103304	SARATHAPRITHA S	18	17	18	18	18	17	18	19	17

Dr. S.THILAGAVATHI M.E., Ph.D.,
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COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

External Examination-End Semester Examination Result

Declared by Anna University

ANNA UNIVERSITY :: CHENNAI - 600025.
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of April / May Examination,2023.

Inst.Code/Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN   Semester No. : 01   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Subject Code -> Stud. Name	CY3151 Grade	GE3151 Grade	GE3152 Grade	HS3152 Grade	MA3151 Grade	PH3151 Grade
912621104003	ANJUGAM C	B+					
912621104006	DIVYA T					U	U
912621104012	JANANI R					U	
912621104016	MAHASREE P	B					
912621104019	RABIKA R					U	
912621104028	SUBIKSHA S					B	
912621104029	VINITHA K	U				U	U
912621104701	AARTHI S	U				U	U
912622104001	ABINAYA E	U	U	B+	B	U	B+
912622104002	ABIRAMI C	B				U	U
912622104003	AJITHA M	B	B			U	
912622104004	AKSHAYA M	B		B+		U	U
912622104006	ASIYA A	U				U	B
912622104008	BARJUSHFATHIMA P					U	U
912622104009	BAVADHARANI S	U	U			B+	
912622104012	DHANALAKSHMI G	B+				U	U
912622104014	FEMINA M	B				B	B
912622104015	GOMATHI P	B		B+			
912622104016	GOPIKA SRI Y	B+	U			U	B
912622104017	INBA M	B					
912622104018	ISHWARYA S					UA	B
912622104020	JEEVITHA S	B+					B+
912622104021	KAVIPRIYA S	B+				B	
912622104023	KAVIYARASI M						B+
912622104025	KEERTHANA S			B+			B+
912622104026	KRISHNAVENI C	B				B	B
912622104027	LAKSHMI PRIYA D	U				U	B
912622104029	LATHIKA G	U				U	U
912622104030	MADHUMITHRA D	U				B	B
912622104031	MAHALAKSHMI K	U					B+
912622104034	MEENAKUMARI K	U			B	U	U
912622104035	NANDHINI PRIYA N						B
912622104036	POORANI S	B				B	B
912622104037	PRADEEPA P					B	B
912622104039	PRIYADHARSHINI D					B+	B+

W - Withdrawal   I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification,approval,etc.

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912622104040	ROHINI N	U				U	U
912622104041	SABITHA S						B+
912622104043	SARULEKHA M	B		B+			U
912622104045	SATHIYA A	U	U		B	U	U
912622104046	SATHYA S					B	
912622104049	SIVAHARISHNI S	U	U	U	B	U	U
912622104052	SWETHA A	U	B		B	U	U
912622104053	SWETHA S						U
912622104055	VAISHNAVI V	U	U	B+		U	U
912622104056	VISHALINI R						B+

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Inst.Code/Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN   Semester No. : 02   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Stud. Name	BE3251 Grade	CS3251 Grade	CS3271 Grade	GE3251 Grade	GE3252 Grade	GE3271 Grade	GE3272 Grade	HS3251 Grade	HS3252 Grade	MA3251 Grade	PH3256 Grade
912621104001	ABINAYA K				U							
912621104003	ANJUGAM C											B+
912621104005	ASHIKA B		B									
912621104006	DIVYA T	U							B		U	
912621104008	GAYATHRI K										B+	
912621104012	JANANI R				U							
912621104015	LAVANYA S											U
912621104018	PRIYA M				U							
912621104019	RABIKA R										U	
912621104024	SHEERA BANU A										B	
912621104026	SIVAPRIYA R								B		U	
912621104029	VINITHA K		B+		U						U	U
912621104701	AARTHI S	U										
912622104001	ABINAYA E	B	U	A+	U	B+	A+	A		B+	U	U
912622104002	ABIRAMI C	B	B+	A+	B+	B+	O	A+		B+	B	U
912622104003	AJITHA M	B	B+	A+	U	B	O	A		B+	U	U
912622104004	AKSHAYA M	U	U	A	U	B+	A+	A+		B+	B+	B
912622104005	ANANTHI K	A	B+	O	B+	B+	O	A+		A+	A	A+
912622104006	ASIYA A	U	U	A+	U	B	O	A+		B	U	U
912622104007	ATCHAYA B	A	A	O	A	A+	O	O		A+	A	B+
912622104008	BARJUSHFATHIMA P	B+	B+	A+	U	B+	O	A+		A	B+	B+
912622104009	BAVADHARANI S	U	U	A+	U	B+	O	O		B	U	U
912622104010	DEVADHARSHINI P	B	B	A+	U	B+	O	A+		B+	U	A
912622104011	DEVI SRI R	B+	B+	A+	B+	B+	O	A+		B+	B+	B+
912622104012	DHANALAKSHMI G	U	U	A+	A	B+	O	A+		B	U	U
912622104013	DHANASRI E	B+	B	A+	A	A	O	A+		B+	B+	B+
912622104014	FEMINA M	B	B+	A+	U	A	O	A+		B+	U	U
912622104015	GOMATHI P	U	U	A+	U	B+	O	A+		B+	U	B
912622104016	GOPIKA SRI Y	B+	B	A+	B+	B+	O	A+		B	B+	B+
912622104017	INBA M	B+	U	O	U	B+	O	A+		B+	U	U
912622104018	ISHWARYA S	U	U	A+	B+	B	O	A+		B+	B	U
912622104019	JAMEELA M A	B+	A	O	B+	B+	O	O		A	B+	U
912622104020	JEEVITHA S	B+	U	A+	A	B+	O	A+		B+	B	B+
912622104021	KAVIPRIYA S	B+	U	A+	U	B+	O	A+		A	B	U
912622104022	KAVIYAPRIYA P	B+	A	O	B+	A	O	O		O	B+	A

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Reg No	Name											
912622104023	KAVIYARASI M	A	B+	O	A	A	O	O		A	B+	A
912622104024	KEERTHANA S	B+	B	A+	B+	B+	O	A+		B	B+	B+
912622104025	KEERTHANA S	B+	B+	A+	U	B+	O	A+		B	B+	B+
912622104026	KRISHNAVENI C	B	U	A	U	A	O	A+		B+	U	U
912622104027	LAKSHMI PRIYA D	U	U	O	U	B	O	A+		B+	U	U
912622104028	LALITHAMBIGAI K	B+	B+	O	B+	A	O	O		A+	B+	B+
912622104029	LATHIKA G	U	U	A+	U	B	O	A+		B	U	U
912622104030	MADHUMITHRA D	B+	U	O	U	U	O	A+		B	U	B
912622104031	MAHALAKSHMI K	B+	B+	O	A	B+	O	A+		B+	B+	B+
912622104032	MANIMEGALAI V	B+	B+	A+	B+	B+	O	A+		B+	B+	A
912622104033	MANJULA R	B+	B+	O	A	A+	O	O		B+	B+	A+
912622104034	MEENAKUMARI K	U	U	A+	U	A	O	A+		B	U	U
912622104035	NANDHINI PRIYA N	U	U	A+	U	B+	O	O		B+	B	U
912622104036	POORANI S	U	U	A+	U	A	O	A+		U	B	U
912622104037	PRADEEPA P	U	U	A+	U	B+	O	A+		U	U	B
912622104038	PRIYADARSHINI K	B+	B+	A+	B+	B+	O	A+		B+	B+	B+
912622104039	PRIYADHARSHINI D	B+	U	A+	B+	B+	O	A+		B	A	B+
912622104040	ROHINI N	U	U	A+	B+	B	O	A+		B+	U	U
912622104041	SABITHA S	B+	U	A+	U	A+	O	A+		B+	B+	U
912622104042	SANIYAASIME M	A	B+	O	U	B+	O	O		B+	B+	B+
912622104043	SARULEKHA M	U	U	A+	A	B+	O	O		B+	B	B+
912622104045	SATHIYA A	B	U	A+	U	B+	O	A+		B+	U	U
912622104046	SATHYA S	B+	B+	A+	U	A	O	O		U	B+	B+
912622104047	SHANMUGAPRIYA K	B+	U	A+	A	A+	O	O		A	B+	U
912622104049	SIVAHARISHNI S	U	U	A+	U	B+	O	A+		B	U	U
912622104051	SUNDHARI S	B+	B+	O	U	A+	O	O		B+	A	A+
912622104052	SWETHA A	U	U	A+	U	B+	A+	A+		B	U	U
912622104053	SWETHA S	U	U	A+	U	B+	O	A+		B+	U	U
912622104054	UMAMAHESHWARI K	B+	B+	O	A	B+	O	O		A	B+	B+
912622104055	VAISHNAVI V	U	U	A+	U	B	O	A+		U	U	U
912622104056	VISHALINI R	B	U	A+	U	A	O	A+		B+	B+	B+
912622104057	YUVASRI S	B+	B+	O	B+	B+	O	O		A	B+	A+

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Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Stud. Name	CS3301 Grade	CS3391 Grade	MA3354 Grade
Subject Code ->				
912621104001	ABINAYA K		B	
912621104004	ARUNDATHI S			B+
912621104005	ASHIKA B		B	B
912621104006	DIVYA T	U	C	U
912621104012	JANANI R			U
912621104015	LAVANYA S			B
912621104016	MAHASREE P			U
912621104018	PRIYA M			U
912621104019	RABIKA R			C
912621104024	SHEERA BANU A			B+
912621104026	SIVAPRIYA R		B	U
912621104029	VINITHA K			C
912621104701	AARTHI S		U	U
912621104702	SWATHI A R			B+

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Inst.Code/Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN   Semester No. : 04   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Stud. Name	CS3401 Grade	CS3451 Grade	CS3452 Grade	CS3461 Grade	CS3481 Grade	CS3491 Grade	CS3492 Grade	GE3451 Grade	MA8402 Grade	SB8021 Grade	SB8023 Grade	SB8024 Grade	SB8025 Grade
912620104001	AKALYA S													
912620104005	KALPANA K									U				
912620104007	MEIYYAMMAL M									U				
912620104014	SABHA AYSHA S									B				
912620104015	SATHIYASRI P									U				
912620104016	SIVAGAMI D									B				
912620104020	SWETHA D									B				
912620104022	VINCIYA MARY S									U				
912620104304	VAISHNAVI R									B				
912621104001	ABINAYA K	B	U	C	A+	A+	C	U	B	U	O			
912621104002	AMEERA N	A+	B+	A	O	O	A	B+	B+					
912621104003	ANJUGAM C	B+	U	U	A+	A+	B+	B	B+			O		
912621104004	ARUNDATHI S	B+	B+	U	O	O	A	B+	B+		O			
912621104005	ASHIKA B	B+	B+	B+	A+	O	B+	B	U		A+			
912621104006	DIVYA T	U	U	U	A+	A+	U	U	U		O			
912621104007	ELACKIYA G	B+	B	B	O	O	B+	B+	B+		O			
912621104008	GAYATHRI K	B	U	B	A+	A+	B	B+	B+		O			
912621104009	GEETHA M	B+	B	U	A+	A+	B+	B	A		O			
912621104010	HARSHITHA P	A+	A+	B+	O	O	A	B+	A					
912621104011	ISHWARYA S	A+	A	B+	O	O	A	B+	B+				A+	
912621104012	JANANI R	B+	B	C	A+	A+	C	C	U		O			
912621104015	LAVANYA S	B	C	C	A+	A+	B	C	B+		O			
912621104016	MAHASREE P	B+	B+	C	A+	A+	B+	B	B		O			
912621104018	PRIYA M	B+	U	B	O	O	B	U	B		O			
912621104019	RABIKA R	C	C	C	A+	A+	B	U	A		O			
912621104021	SAHEENA BEGAM A	A+	B	B+	O	O	A+	B+	A			O		
912621104022	SASIPRIYA R	A	B+	B+	O	O	B+	B+	B			O		
912621104023	SHAMIMA P	A+	A	B+	O	O	A+	A+	A			O		
912621104024	SHEERA BANU A	C	C	U	A	A+	C	B	B+		O			
912621104025	SIVAJOTHIKA S	A	B+	B+	O	O	B+	B+	B+		O			
912621104026	SIVAPRIYA R	B+	U	U	A+	A+	U	C	U		O			
912621104027	SUBHA DHARSHINI S	O	A	B	O	O	A	B+	A			O		
912621104028	SUBIKSHA S	B+	U	C	A+	A+	B	B	U					
912621104029	VINITHA K	C	U	U	A	A+	U	C	U					O
912621104030	VISALATCHI S	B+	U	U	A+	A+	C	B	U		O			

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Provisional Results of April / May Examination,2023.

912621104301	VAISHNAVI B	A	U	B+	A+	O	A	B+	A		O			
912621104302	VISHNUPRIYA A	A	C	B	A+	O	B+	B	B+		O			
912621104701	AARTHI S	B	U	U	A+	A+	C	C	C		O			
912621104702	SWATHI A R	A	U	B+	O	O	B+	B	A		O			

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Inst.Code/Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN   Semester No. : 05   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Subject Code -> Stud. Name	CS8591 Grade	CS8592 Grade	EC8691 Grade	MA8551 Grade	OMD551 Grade
912620104001	AKALYA S		B		U	B
912620104005	KALPANA K			B	U	
912620104014	SABHA AYSHA S				U	
912620104015	SATHIYASRI P		B	U	B	
912620104020	SWETHA D	B		U	U	
912620104022	VINCIYA MARY S				U	
912620104304	VAISHNAVI R		B	U	U	

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Inst.Code/Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN   Semester No. : 06   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Stud. Name	CS8601 Grade	CS8602 Grade	CS8603 Grade	CS8611 Grade	CS8651 Grade	CS8661 Grade	CS8662 Grade	CS8691 Grade	HS8581 Grade	SB8033 Grade	SB8040 Grade
912619104301	ABINAYA S	U										
912620104001	AKALYA S	U	B	B	A+	B	A+	A+	B+	A	O	
912620104002	HEMA V	B+	B+	B+	O	A+	O	O	B+	A	O	
912620104004	KALAIVANI S	B	B	B	O	B	O	A+	B+	A+	O	
912620104005	KALPANA K	B+	U	B+	O	B+	O	A+	B	A		A+
912620104007	MEIYYAMMAL M	B+	B	B+	O	B+	O	A+	A+	A		O
912620104008	NANDHINI P	B+	B	B+	O	B+	O	O	B	A+		O
912620104009	PRASANNA DEVI P	B+	B	B+	O	B	O	O	B	A+	O	
912620104010	PRISHIYA E	B	B	B	O	B+	A+	A+	U	A+		A+
912620104012	ROSAMMAL M	B	B	B	O	B	O	O	U	A+		A+
912620104013	ROSHIKA K	B	B	B	O	B	O	A+	B+	A+		A+
912620104014	SABHA AYSHA S	B	U	U	O	U	O	O	A	A+	O	
912620104015	SATHIYASRI P	U	B	B	O	U	O	A+	B+	A		A+
912620104016	SIVAGAMI D	B	B	B	O	B+	O	A+	U	A+		A+
912620104017	SIVAHARINI S	A	A	B+	O	A	O	A+	B+	A+		O
912620104018	SUBASHINI C	B+	B+	B+	O	A	O	O	B+	A+	O	
912620104019	SUBASHINI M	B	B	B	O	A	A+	A+	B	A	A+	
912620104020	SWETHA D	B+	U	B	A+	B	A	A	B	A		A+
912620104021	VANATHI T	B	B	B+	O	B	A+	A+	A	A		A+
912620104022	VINCIYA MARY S	B+	B	B+	O	B	A+	A+	B	A		A
912620104304	VAISHNAVI R	U	B	B	A+	B	A+	A+	B+	A		A+

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Semester No. : 07   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

Reg. Number	Subject Code ->	MG8591	OEC754
	Stud. Name	Grade	Grade
912619104003	ARUNNAVAMEENA A		B
912619104005	DHARSHINI D		B
912619104007	FAHMIDHA B	B+	B
912619104013	MUTHU MEENAKSHI M		B
912619104019	RANJANI K		B
912619104023	SANTHI D		B
912619104024	SARANYA C		B
912619104027	SNEHA R		B+
912619104301	ABINAYA S		U

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Branch : 104-B.E. Computer Science and Engineering

	Subject Code ->	CS8080	CS8811	GE8076
Reg. Number	Stud. Name	Grade	Grade	Grade
912619104001	ANNAPOORANI M	B	O	A
912619104003	ARUNNAVAMEENA A	B	O	B+
912619104004	DAYANA P	A	O	B
912619104005	DHARSHINI D	B	O	B
912619104007	FAHMIDHA B	B+	O	A
912619104009	GULNAS FATHIMA S	B	O	B+
912619104010	HELAN J	A	O	A+
912619104011	KEERTHANA R	B	O	B
912619104012	MUTHULAKSHMI G	B	O	A
912619104013	MUTHU MEENAKSHI M	B+	O	B
912619104014	NIROSHIKA R	B	O	B+
912619104017	PARAMESHWARI S	B	O	B
912619104019	RANJANI K	B	O	B
912619104020	RILWANA PARVEEN J	B	O	B+
912619104021	ROOPINA R	B	O	B
912619104022	SANDHIYA B	A	O	A
912619104023	SANTHI D	B	O	B
912619104024	SARANYA C	B	O	B+
912619104027	SNEHA R	B	O	B
912619104029	SURIYA JOTHI S	B	O	B+
912619104301	ABINAYA S	U	O	B

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PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

W - Withdrawal   I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification,approval,etc.

16-11-2023

Anna University - COE

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Anna University Circular for Photocopy

OFFICE OF THE CONTROLLER OF EXAMINATIONS, ANNA UNIVERSITY :: CHENNAI - 25

PROCEDURE FOR OBTAINING PHOTOCOPY OF ANSWER SCRIPTS

NOV. / DEC. 2022 EXAMINATIONS – EXCEPT (FIRST YEAR AND R-2021)

1. Colleges can download the softcopy of the results of Nov./ Dec 2022 Examinations - Except (First Year and R-2021) Examinations in .pdf format from the official web portal of this office https://coe1.annauniv.edu. Based on that the students who are not satisfied with the results may apply for the photocopy of their answer scripts to apply for revaluation.

2. Candidates who wish to apply for revaluation should first apply for photocopy of his/her answer script by paying Rs.300 /- per script on or before 17-03-2023. The Principals are requested to register for the same in the web portal on or before 17-03-2023. The web portal will be closed on 17-03-2023 at 1.00PM.

3. After receiving the photocopy, the student can verify the answer script for any discrepancy like total mistake and omissions in the valuation and the same may be brought to the notice of the Controller of Examinations for remedial action.

4. Discrepancies such as missing of pages, answer scripts not belonging to the student etc., may be reported through the web-portal. After the problem is solved i.e. receipt of the copy of the correct answer script, the college must update in the web-portal as "PROBLEM SOLVED". Only after solving the issue, the revaluation of the answer scripts will be permitted.

5. The students of closed colleges may apply for photocopy manually through the Zonal Offices concerned. However, the students of closed colleges within the Zones 1 to 4 may apply for photocopy through the office of the Controller of Examinations, Anna University, Chennai.

6. The valuation in the photocopy of the answer script can be verified by the subject expert and if the expert is convinced that the script deserves higher marks than awarded, he/she can recommend for applying revaluation.

7. The application for revaluation of answer scripts for the persons obtained photocopy will be intimated after the supply of photocopy.

8. Candidates who have applied for Photocopy and Revaluation alone are eligible for the Review for their answer script (by remitting the prescribed fee) after the Publication of the Revaluation Results. The details of the Review Procedure will be announced along with the revaluation results.

13.03.2023

CONTROLLER OF EXAMINATIONS

13/03/2023

13-03-23

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

Criteria 2	Teaching-Learning and Evaluation	350

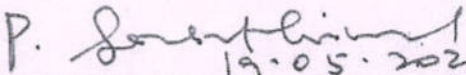## Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)
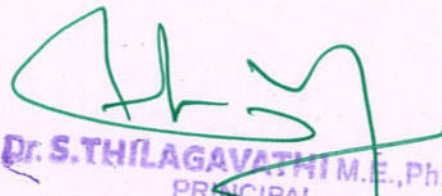
Anna University Circular for Revaluation

OFFICE OF THE CONTROLLER OF EXAMINATIONS
ANNA UNIVERSITY :: CHENNAI - 25

REVALUATION PROCEDURE

NOV. / DEC. 2022 EXAMINATIONS (EXCEPT FIRST YEAR)

1. The candidates who have obtained the photocopy of the answer scripts and have no issues with the photocopy alone are eligible for applying for revaluation.
2. Candidates who had issues on photocopy and solved now are requested to update the status as "SOLVED" in the solver page provided in the examination menu of the web portal.
3. The answer script is to be valued and justified by a faculty member of the college, who handled the subject, and he/she should recommend for revaluation with the breakup of marks for each question in the format provided in the "Instructions the Candidates" enclosed along with the photocopy of the Answer Script.
4. The candidates can register for revaluation of answer scripts only in the COE web portal through the college. While applying for revaluation for the students on roll , it is required to provide the Staff Code of the faculty member provided by office of COE recommending revaluation. If the code of the staff member recommending revaluation is not available, the profile of the staff member may be uploaded first in the web portal of the office of COE and registration may be done for revaluation. The Principals of the Colleges may arrange for the registration of the courses through the COE Web portal.
5. The manual applications will not be accepted by the Office of the Controller of Examinations.
6. After registration the applications have to be generated for each student and the same may be sent to the office of the Controller of Examinations along with the abstract generated for the college and the amount of money in the form of demand draft drawn in favour of the Controller of Examinations, Anna University, Chennai - 25.
7. The fee for revaluation is Rs.400/- per script. A student can register for a maximum of 5 answer scripts for revaluation.
8. The web portal will be opened for applying for revaluation from 20-04-2023 and will be closed strictly on 25-04-2023 at 1.00PM.

P. Sasikumar
20.04.2023
CONTROLLER OF EXAMINATIONS

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Anna University Circular for Review

PROCEDURE FOR APPLYING FOR REVIEW

1. The candidates can register for review of answer scripts (revaluation applied candidates) only in the COE web portal through the college. The Principals of the Colleges may arrange for the registration of the courses through the COE Web portal. The manual applications will not be accepted by the Office of the Controller of Examinations. After registration, the applications have to be generated for each student and the same may be sent to the office of the Controller of Examinations along with the abstract generated for the college and the amount of money for the review of answer scripts in the form of demand draft.

2. The generated application for review should be forwarded by the Principal.

3. The fee for review is Rs.3,000/- and it should be paid in the form of demand draft drawn in favour **of the Controller of Examinations, Anna University, Chennai - 25.**

4. If a candidate gets higher grade in review, the higher grade will be declared as the final grade. Only such candidates are eligible for refund of sum of Rs.3,000/-.

5. The refund will be made through RTGS / NEFT to the candidate's bank account directly.

6. The Last date of Registration for Review of Answer Scripts is on 24-05-2023 at 1 PM.

P. 19·05·2023.

CONTROLLER OF EXAMINATIONS i/c

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)
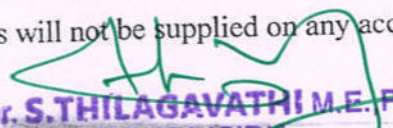
Format for Recommendation of Revaluation by Subject

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	2	11	a	4			4
2	2		b				
3	0	12	a				
4	0		b	5			5
5	0	13	a	10			10
6	2		b				
7	1	14	a	4			4
8	0		b				
9	0	15	a	9			9
10	0		b				
		16	a	12			12
			b				
Total	7						44

RECOMMENDED/NOT RECOMMENDED

GRAND TOTAL

Signature		51
Examiner / Code	RACI, MAHIZHINI / 9126143	
College code /Name	9126 / SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN.	

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.

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI 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

V-2

Question No.	✔	Marks	Question No.		i ✔	i Marks	ii ✔	ii Marks	iii ✔	iii Marks	Total Marks
1	✔		11	a							
2	✔			b	✔						
3	✔		12	a	68						
4	✔			b	✔						
5	✔		13	a	✔						
6				b							
7	✔		14	a	✔						
8	✔			b							
9	✔		15	a	✔						
10	✔			b							
Total			16	a	✔						
				b							

Grand Total (in words)

GRAND TOTAL

Office Use Only

Declaration by the Examiner: Verified that all the questions attended by the student are valued and the total is found to be correct

Date   Name of the Examiner   Signature of the Examiner

✂ - - - - - - - - ✂ - - - - - - - - ✂

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

V-3

Question No.	✔	Marks	Question No.		i ✔	i Marks	ii ✔	ii Marks	iii ✔	iii Marks	Total Marks
1	✔		11	a							
2	✔			b	✔						
3	✔		12	a							
4	✔			b							
5	✔		13	a	✔						
6	✔			b							
7	✔		14	a	✔						
8	✔			b							
9	✔		15	a							
10	✔			b							
Total			16	a	✔						
				b							

Grand Total (in words)

GRAND TOTAL

Office Use Only

Declaration by the Examiner: Verified that all the questions attended by the student are valued and the total is found to be correct

Date   Name of the Examiner   Signature of the Examiner

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

Question No.	✔	Marks	Question No.		i ✔	i Marks	ii ✔	ii Marks	iii ✔	iii Marks	Total Marks
1	✔	0	11	a							
2	✔	2		b	✔	2					2
3	✔	0	12	a							
4	✔	5		b	✔	0					0
5	✔	0	13	a	✔	2					3
6	✔	0	14	a	✔	0					0
7	✔	1		b							
8	✔	0	15	a	✔	2					2
9	✔	0		b							
10	✔	0	16	a	✔	4					4
				b							16

Grand Total (in words)

one six

GRAND TOTAL

21-22

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		i	ii	iii	Total
Q.No.	Marks	Q.No.					
1	00	11	a	07	03		10
2	01		b				
3	01	12	a				
4	00		b	10			10
5	02	13	a				
6	02		b	06	02		08
7	00	14	a	03	05		08
8	02		b				
9	02	15	a	08	02		10
10	00		b				
		16	a	04			04
			b				
Total	10						50

RECOMMENDED/NOT RECOMMENDED

GRAND TOTAL

Signature	N.P...	60
Examiner / Code	9126136	
College code /Name	9126 / SBECW	

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.
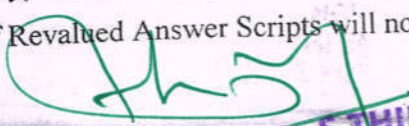
Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING

Instructions to candidates who are receiving
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Part A		Part B					
Q.No.	Marks	Q.No.		i	ii	iii	Total
1	2	11	a	5	6		11
2	—		b				
3	2	12	a				10
4	1		b	10			
5	—	13	a				
6	1		b				
7	1	14	a	04	02		06
8	1		b				
9	—	15	a	06	05		11
10	1		b				
		16	a	04	04		08
			b				
Total	09						46

		GRAND TOTAL
RECOMMENDED/NOT RECOMMENDED		55
Signature	Rugh	
Examiner / Code	9126130	
College code /Name	9126-SBECW	

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.

Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
BHARATH ENGINEERING

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

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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.

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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	2	11	a	12			12
2	2		b				
3	0	12	a	11			11
4	—		b				
5	2	13	a				10
6	1		b	10	0		
7	1	14	a	4	04		4
8	—		b				
9	—	15	a	11	0		11
10	2		b				
		16	a	04			
			b				18
Total	10						GRAND TOTAL

RECOMMENDED/NOT RECOMMENDED

Signature	R. Scott	58
Examiner / Code	9126074	
College code /Name	9126, Sri Bharathi Engg College for women	

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.

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
ENGINEERING

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Anna University Revaluation Results

ANNA UNIVERSITY :: CHENNAI - 600025.
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of Nov. / Dec. Examination,2022(Reval./Photo.).

Page 1/1

Inst.Code/Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN   Semester No. : 03   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 103-B.E. Civil Engineering

Reg. Number	Subject Code -> Stud. Name	CE3303 Grade
912621103006	RABIA BANU M	B+

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

W - Withdrawal   I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification,approval,etc.

20-05-2023

Anna University - COE

ANNA UNIVERSITY :: CHENNAI - 600025.
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of April / May Examination,2022(Reval./Photo.).

Inst.Code/Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN   Semester No. : 04   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 103-B.E. Civil Engineering

Reg. Number	Subject Code -> Stud. Name	CE8403 Grade
912620103001	ASWINI T	B
912620103004	SUBATHRA S	NC

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

W - Withdrawal   I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification,approval,etc.

19-07-2023

Anna University - COE

ANNA UNIVERSITY :: CHENNAI - 600025.
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of Nov. / Dec. Examination, 2019 [R-2017](Reval./Photo.).

Page 2/2

Inst.Code/Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN   Semester No. : 05   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 106-B.E. Electronics and Communication Engineering

	Subject Code ->	EC8501	EC8551	EC8553
Reg. Number	Stud. Name	Grade	Grade	Grade
912617106005	BHUVANESHWARI B			NC
912617106006	DHIVYA L		NC	NC
912617106010	KANIMOZHI D		B	
912617106013	MAHESHWARI G			NC
912617106015	MARAGATHALAKSHMI S		NC	-
912617106017	SAFRIN NISHA S		B	
912617106019	SUBASHINI T	B		
912617106020	VINTHIYA R		B	

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

W - Withdrawal   I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification,approval,etc.

ANNA UNIVERSITY :: CHENNAI - 600025.
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of Nov. / Dec. Examination, 2018 [R-2017](Reval./Photo.).

Page 1/2

Inst.Code/Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN   Semester No. : 01   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 103-B.E. Civil Engineering

	Subject Code ->	PH8151
Reg. Number	Stud. Name	Grade
912618103008	SATHYA M	B

Dr. **S.THILAGAVATHI** M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

W - Withdrawal   I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification,approval,etc.

ANNA UNIVERSITY :: CHENNAI - 600025.
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of April / May Examination,2023(Reval./Photo.).

Inst.Code/Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN   Semester No. : 05   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

	Subject Code ->	EC8691
Reg. Number	Stud. Name	Grade
912620104015	SATHIYASRI P	NC

Dr. S.THILAGAVATHI M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

W - Withdrawal   I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification,approval,etc.

16-11-2023

Anna University - COE

ANNA UNIVERSITY :: CHENNAI - 600025.
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of April / May Examination,2023(Reval./Photo.).

Inst.Code/Name : 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN   Semester No. : 06   DATE OF PUBLICATION :DD-MM-YYYY

Branch : 104-B.E. Computer Science and Engineering

	Subject Code ->	CS8691
Reg. Number	Stud. Name	Grade
912620104012	ROSAMMAL M	NC

Dr. **S.THILAGAVATHI** M.E.,Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

W - Withdrawal   I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice   WH(others) - Withheld for want of Clarification,approval,etc.

16-11-2023

Anna University - COE

Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

Fees Procedure for correction in certificates

ANNA UNIVERSITY
CHENNAI – 600 025
OFFICE OF THE CONTROLLER OF
EXAMINATIONS

Off 22203010,22203006

Dir 22301632, 2350290

Fax   91-44-22301134

19.11.2022

NOTIFICATION
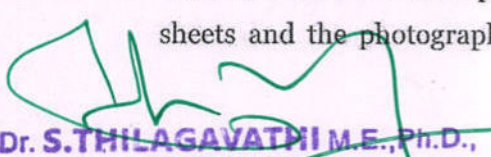
The office of the Controller of Examinations issues the Statement of Grades, Consolidated Statement of Grades and Degree Certificates by affixing the photograph of the students concerned from Regulations 2008 onwards. The photographs of the students are uploaded by the college while uploading the profile of the students admitted in their first year or the second year (Lateral Entry Admission).

The students would have grown up and their physical appearance also would have changed significantly by the end of the course of study. Hence, the colleges shall **upload the photos taken at the end of the programme in the web portal exclusively to print on the Degree Certificate.**

After the issue of the certificates, some of the students request for the change of photograph in their certificates after one or more years with different photograph and the Principals of the colleges also recommended for the same, which lead to a lot of suspicions, and the office of the Controller of Examinations finds it difficult to replace the photographs as requested by the students as the photograph in the certificate has no matching with the new photograph to be affixed.

To overcome this issue, as per the approval of competent authority a procedure is formulated for change of photograph in certificates for the students who had been awarded degree is given below:

a) At the time of admission, the colleges must upload the correct photograph of the students on the web portal.

b) In case, if the photograph of the student is not correct in the hall ticket, the Student / Principal of the college must initiate for the change of the correct photograph of the student with supporting documents.

c) As University is affixing the current photograph of the student uploaded by the college in the final semester of the student, in the degree certificate, if there is a mismatch of the photograph in the degree certificate and the grade sheets and the photograph in the consolidated statement of grades, the

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photograph shall be changed to the photograph already printed either in the grade sheets or in the degree certificates with supporting documents.

d) For the change of photograph after the award of degree in all grade sheets, consolidated statements of grades and degree certificate, the students must produce the following documents.

    i) Any document submitted by the student with the photograph to the college at the time of admission such as data sheet, application etc., duly attested by the Principal.

    ii) The new photograph submitted by the student to affix in the certificates shall be the one that had been taken during the programme of study in the colleges.

    iii) Reasons for not noticing the change of photograph in the documents (Grade sheets, Consolidated Statement of Grades and Degree Certificate) and not informing the same to the Principal/Head of the Department/ Office of the Controller of Examinations.

    iv) Sworn affidavit before an Oath Commissioner/ Judicial First Class Magistrate.

    v) Duly filled application form along with supporting documents and the requisite fees.

e) The fees for the change of photograph are as given below:

Sl.No.	Certificate	Fee in Rs.
1.	Statement of Grades/Marks (per Semester)	1000/-
2.	Consolidated Statement of Grades/Marks	2000/-
3	Degree Certificate	3000/-

The application may be downloaded from **https://onlineservices.annauniv.edu**
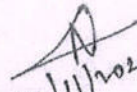
The fees to be paid by Demand Draft in favor of "The Controller of Examinations, Anna University, Chennai" payable at Chennai.

f) In case, if the colleges have not submitted the photograph of any of the students in the web portal at the time of admission or at the end of the programme for the award of degree, for affixing the photograph in the certificates, the procedure given in (d) and fee structure in (e) shall be followed.
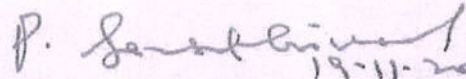
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Kaikkurchi - 622 303, Pudukkottai Dt.

g) After submitting all the information, uploading of necessary documents, and payment of necessary fees, the candidate should submit the signed printout of the generated application form along with all the original documents which require change of photo and original affidavit to the office of the Controller of Examinations by Registered / Speed post.

This procedure may scrupulously be followed with immediate effect.

P. Sarathivel 19-11-2022.

CONTROLLER OF EXAMINATIONS

Dr. S.THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

OFFICE OF THE CONTROLLER OF EXAMINATIONS

ANNA UNIVERSITY :: CHENNAI 600 025

Type of Certificate	Rate
Correction in Grade Sheet / Mark Sheet	₹300
Damage in Grade Sheet / Mark Sheet	₹300
Duplicate in Grade Sheet / Mark Sheet	₹300
Duplicate in Grade Sheet / Mark Sheet [Second Time]	₹1000
Correction in Consolidated Grade / Mark Sheet	₹300
Damage in Consolidated Grade / Mark Sheet	₹300
Duplicate Consolidated Grade / Mark Sheet	₹1000
Duplicate Consolidated Grade / Mark Sheet [Second Time]	₹2000
Correction in Degree Certificate	₹750
Damage in Degree Certificate	₹750
Duplicate Degree Certificate	₹3000
Duplicate Degree Certificate [Second Time]	₹10000
Correction in Provisional Certificate	₹300
Damage in Provisional Certificate	₹300
Migration Certificate	₹200
Transcript	₹850
Medium of Instruction Certificate	₹300
CGPA to Percentage Certificate	₹300
Certificate mentioning month and year of Degree to be awarded	₹300
WES/Other Form [ICAS/NCEES/IAQS/NESS/Foreign institute form] attestation for academic credentials	₹300
WES [Secondary Verification]	25 (USD)
Genuineness Verification [within India]	₹1500
Genuineness Verification [outside India]	25 (USD)

Link:

Transcripts , Duplicate & other Certificates:

https://onlineservices.annauniv.edu/

Genuineness Verification

https://onlinetranscript.annauniv.edu/verify

Controller of Examinations

ANNA UNIVERSITY :: CHENNAI – 25
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Phone: +91-044-22357244, 22357295, 22357296

APPLICATION FOR CHANGE OF PHOTOGRAPH IN CERTIFICATES

(Please fill complete form in capital letters)

Name of the Student...

Register No...   Gender: **MALE / FEMALE**

Father's Name...

College Code/Name...

Programme and Branch Name...

Month and Year of Passing ....

Passing Division (as mentioned in Degree) ....

Contact No. (Landline) .... (Mobile No.)...

E- Mail ID ....

Aadhaar Number.. Ration Card No..

Voter ID No.. PAN No...

Photograph to be Changed in	Semester									
Statement of Grades/Marks	I	II	III	IV	V	VI	VII	VIII	IX	X
Make a tick mark in which photo to be changed										

Give the details, if the photograph is to be changed in Consolidated Statement of Grades/Marks or/and Degree Certificate:

Month and Year of issue of Consolidated Statement of Grades/Marks with Serial No...........................

Month and Year of award of Degree (as mentioned in Degree) ....

Degree Serial No........................

Date ....   **Signature of the Candidate**

Date ....   **Signature of the Principal
                                                                     with Name and Seal**

Page 1 of 2

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K-...hirchi - 622 303, Pudukkottai Dt.

(Sample copy of Affidavit to be sworn before an Oath Commissioner/ Judicial First Class Magistrate)

AFFIDAVIT

Photograph of the candidate executing the affidavit

I, _____ Son / Daughter of _____ major in age (state here profession / occupation) resident of (Full Address in which you are residing) do hereby solemnly affirm and state on oath as under:

1. That I was a (State the Programme and Branch) student of (State the Name of the College), an affiliated college under Anna University, Chennai with Register No. _____ . I appeared for all the examinations and successfully completed my degree in (Month and Year of award of Degree as mentioned in Degree Certificate).

2. I state that the photograph printed in my Statement of Marks / Grades , Consolidated Statement of Marks/Grades / Degree Certificate is/are not mine, and the wrong photograph printed in the said certificate(s) was/were noticed by me now and the reason for not reporting the same in time are mentioned below:
   (a) _____
   (b) _____

3. I now declare that the photograph I produced herewith for the process is mine and I am fully responsible for the change of photo in the Statement of Marks/ Grades, Consolidated Statement of Marks/Grades / Degree Certificate and also liable for any legal action to be initiated, if any wrong claim is made by me.

4. That I am swearing this affidavit in order to produce the same before the Controller of Examinations, Anna University for obtaining the Statement of Marks/ Grades, Consolidated Statement of Marks/Grades / Degree Certificate with my photograph.

VERIFICATION

I, (full name _____ S/o _____) on solemn affirmation and oath state that all the facts stated in paragraphs 1 to 4 are correct to the best of my knowledge and belief and nothing is false or concealed. The contents being true I swear this affidavit.

Solemnly affirmed at _____ on ____ day of _____ 20

Name of the Deponent

Before Me

Fees	Statement of Grades/Marks	Consolidated Statement of Grades/Marks	Degree Certificate
	Rs.1000/- (per semester)	Rs.2000/-	Rs.3000/-

Enclosures:-

1. Original Statement of Marks/ Grades, Consolidated Statement of Marks/Grades / Degree Certificate.
2. Forwarding letter from college concerned stating the reason for the delay in reporting for the change of photograph.
3. Photocopy of all Statement of Grade/Mark sheet(s), Consolidate Grade/Mark Sheet, Provisional degree certificate and Degree Certificate duly self-attested and attested by the Principal of the College.
4. Demand Draft/Challan should be in favour of "The Controller of Examinations, Anna University, Chennai" payable at Chennai.
5. One Passport Size color photograph, preferably with blue background.
6. Photocopy of mark sheets of class X and class XII.
7. Photocopy of personal ID (Aadhaar Card, PAN Card, Ration Card and Voter ID Card).
8. Sworn affidavit executed in Rs.100/- stamp paper.

Note:-

1. All documents should be properly legible, otherwise change of photograph cannot be made.
2. In case of any wrong information provided in the form, candidate will be fully responsible for the same and University may take appropriate action against him.

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Criteria 2	Teaching-Learning and Evaluation	350

Key Indicator- 2.5. Evaluation Process and Reforms (40)

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient (40)

University Exam Related Grievances Redressal

Examination : April / May Examination,2019 Academic year : 2019-2020

QUESTION PAPER COMMENT

Question Paper Code : 52967(SUBJECT CODE: EE6801)   ⌄   Submit

Question Paper Code : 52967
Exam date/Session :29-04-2019/FN
Board : Electrical and Electronics Engineering

If no subdivision,Please Select "Not applicable"

Question Number	Select ⌄	Select ⌄	Select ⌄	Select ⌄

Question Number
(type question number manually)
Example 1: 12/a/ii
Example 2: 5
Example 3: 5/a

TYPE QUESTION NUMBER HERE..

Comment (Maximum 1000 chars)
Please give your comment clearly

Type your comment here..

Your Faculty Code   SELECT   ⌄

Save

1	QP Code	Question Number	Entered Question Number	Added By
	52967	15/a	15/a	9126055

Comment :Spelling Mistake,instead of reduce it is printed as deduce.

Edit | Delete

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Examination : April / May Examination,2019 **Academic year** : 2019-2020

QUESTION PAPER COMMENT

Question Paper Code : 52770(SUBJECT CODE: CE6502) ⌄ Submit

Question Paper Code : 52770
Exam date/Session :09-05-2019/FN
Board : Civil Engineering

If no subdivision,Please Select "Not applicable"

| Question Number | Select ⌄ | Select ⌄ | Select ⌄ | Select ⌄ |

Question Number
(type question number manually)
Example 1: 12/a/ii
Example 2: 5
Example 3: 5/a

TYPE QUESTION NUMBER HERE..

Comment (Maximum 1000 chars)
Please give your comment clearly

Type your comment here..

Your Faculty Code   SELECT ⌄

Save

1	QP Code	Question Number	Entered Question Number	Added By
	52770	12/a	12/a	9126077

Comment : Bearing Capacity factors are not given

Edit | Delete

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Examination : Nov / Dec Examination,2022 Academic year : 2022-2023

QUESTION PAPER COMMENT

Question Paper Code : 90336(SUBJECT CODE: CE8701)　⌄　Submit

Question Paper Code : 90336
Exam date/Session :09-12-2022/FN
Board : Civil Engineering

If no subdivision,Please Select "Not applicable"

| Question Number | Select ⌄ | Select ⌄ | Select ⌄ | Select ⌄ |

Question Number
(type question number manually)
Example 1: 12/a/ii
Example 2: 5
Example 3: 5/a

TYPE QUESTION NUMBER HERE..

Comment (Maximum 1000 chars)
Please give your comment clearly

Type your comment here..

Your Faculty Code　　　　　SELECT　⌄

Save

1	QP Code	Question Number	Entered Question Number	Added By
	90336	12/b	12/b	9126077

Comment :Question Paper is very difficult to answer

Edit | Delete

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Examination : Nov / Dec Examination,2022 **Academic year** : 2022-2023

QUESTION PAPER COMMENT

Question Paper Code : 70059(SUBJECT CODE: CE3351)   [v] Submit

Question Paper Code : 70059
Exam date/Session :29-12-2022/FN
Board : Civil Engineering

If no subdivision,Please Select "Not applicable"				
Question Number	Select v	Select v	Select v	Select v
Question Number (type question number manually) Example 1: 12/a/ii Example 2: 5 Example 3: 5/a	TYPE QUESTION NUMBER HERE..			
Comment (Maximum 1000 chars) Please give your comment clearly	Type your comment here..			
Your Faculty Code	SELECT v			

Save

1	QP Code	Question Number	Entered Question Number	Added By
	70059	12/b	12/b	9126091

Comment :Leveling Values are not in Decimal Format

Edit | Delete

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Welcome 9126 - SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN !!

Last Login Time : 08-11-2019 4:37:15 PM

Examination : Nov / Dec Examination,2019 **Academic year** : 2019-2020

QUESTION PAPER COMMENT

Question Paper Code : 91443 (SUBJECT CODE: EC6303) ✔ Submit

Question Paper Code : 91443
Exam date/Session :08-11-2019/AN
Board : Electronics and Communication Engineering

If no subdivision,Please Select "Not applicable"

Question Number	Select ✔	Select ✔	Select ✔	Select ✔

Question Number
(type question number manually)
Example 1: 12/a/ii
Example 2: 5
Example 3: 5/a

TYPE QUESTION NUMBER HERE..

Comment (Maximum 1000 chars)
Please give your comment clearly

Type your comment here..

Your Faculty Code   SELECT ✔

Save
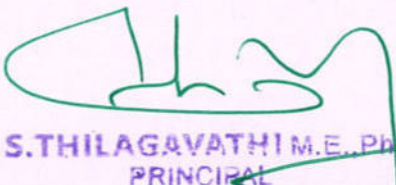
1	QP Code	Question Number	Entered Question Number	Added By
	91443	16/b	16/b	9126018

Comment : Amplitude of the signal was not mentioned

Edit | Delete

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Examination : April / May Examination,2023 **Academic year : 2023-2024**

QUESTION PAPER COMMENT

Question Paper Code : 50437 (SUBJECT CODE : CS8691) ⌄   Submit

Question Paper Code : 50437
Exam date/Session :08-06-2023/FN
Board : Computer Science and Engineering

If no subdivision,Please Select "Not applicable"				
Question Number	Select ⌄	Select ⌄	Select ⌄	Select ⌄
Question Number (type question number manually) Example 1: 12/a/ii Example 2: 5 Example 3: 5/a	TYPE QUESTION NUMBER HERE..			
Comment (Maximum 1000 chars) Please give your comment clearly	Type your comment here..			
Your Faculty Code	SELECT ⌄			
				Save

1	QP Code	Question Number	Entered Question Number	Added By
	50437	12/a	12/a	9126112

Comment :Type of Searching algorithm was not clearly mentioned

Edit | Delete

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Examination : April / May Examination,2023 **Academic year** : 2023-2024

QUESTION PAPER COMMENT

Question Paper Code :   **30135 (SUBJECT CODE : EC3251)**   ▼   Submit

Question Paper Code : 30135
Exam date/Session :23-08-2023/FN
Board : Electronics and Communication Engineering

If no subdivision,Please Select "Not applicable"

Question Number	Select ▼	Select ▼	Select ▼	Select ▼

Question Number
(type question number manually)
Example 1: 12/a/ii
Example 2: 5
Example 3: 5/a

TYPE QUESTION NUMBER HERE..

Comment (Maximum 1000 chars)
Please give your comment clearly

Type your comment here..

Your Faculty Code   SELECT ▼

Save

1	QP Code	Question Number	Entered Question Number	Added By
	30135	16/a/i	16/a/i	9126149

Comment : In the given circuit diagram instead of Voltage Source ,Ampere value is given which denotes current.

Edit | Delete

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Examination : April / May Examination,2023 **Academic year : 2023-2024**

QUESTION PAPER COMMENT

Question Paper Code : 30309 (SUBJECT CODE : PH3151) ⌄ Submit

Question Paper Code : 30309
Exam date/Session :13-09-2023/FN
Board : Physics

If no subdivision,Please Select "Not applicable"

| Question Number | Select ⌄ | Select ⌄ | Select ⌄ | Select ⌄ |

Question Number
(type question number manually)
Example 1: 12/a/ii
Example 2: 5
Example 3: 5/a

TYPE QUESTION NUMBER HERE..

Comment (Maximum 1000 chars)
Please give your comment clearly

Type your comment here..

Your Faculty Code   SELECT ⌄

Save

1	QP Code	Question Number	Entered Question Number	Added By
	30309	1	All part-B questions	9126074

Comment : Time is not enough to solve all the questions

Edit | Delete

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Examination : Nov / Dec Examination,2019 **Academic year :** 2019-2020

QUESTION PAPER COMMENT

Question Paper Code :   91407(SUBJECT CODE:CS6659)   ⌄   Submit

Question Paper Code : 91407
Exam date/Session :19-11-2019/AN
Board : Computer Science and Engineering

If no subdivision,Please Select "Not applicable"

| Question Number | Select ⌄ | Select ⌄ | Select ⌄ | Select ⌄ |

Question Number
(type question number manually)
Example 1: 12/a/ii
Example 2: 5
Example 3: 5/a

TYPE QUESTION NUMBER HERE..

Comment (Maximum 1000 chars)
Please give your comment clearly

Type your comment here..

Your Faculty Code   SELECT   ⌄

Save

1	QP Code	Question Number	Entered Question Number	Added By
	91407	13/b(i)	13/b(i)	9126035

Comment :Out of Syllabus

Edit | Delete

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Examination : Nov / Dec Examination,2022 Academic year : 2022-2023

QUESTION PAPER COMMENT

Question Paper Code : 90417(SUBJECT CODE:CS8501)　　▼ Submit

Question Paper Code : 90417
Exam date/Session :15-12-2022/AN
Board : Computer Science and Engineering

If no subdivision,Please Select "Not applicable"

| Question Number | Select ✔ | Select ✔ | Select ✔ | Select ✔ |

Question Number
(type question number manually)
Example 1: 12/a/ii
Example 2: 5
Example 3: 5/a

TYPE QUESTION NUMBER HERE..

Comment (Maximum 1000 chars)
Please give your comment clearly

Type your comment here..

Your Faculty Code　　SELECT ✔

Save

1	QP Code	Question Number	Entered Question Number	Added By
	90417	12/b	12/b	9126112

Comment :Some Transition Input Symbols are missing

Edit | Delete

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Examination : Nov / Dec Examination,2022 Academic year : 2022-2023

QUESTION PAPER COMMENT

Question Paper Code : 70072(SUBJECT CODE:CS3352)   ⌄ Submit

Question Paper Code : 70072
Exam date/Session :06-01-2023/FN
Board : Computer Science and Engineering

If no subdivision,Please Select "Not applicable"

| Question Number | Select ⌄ | Select ⌄ | Select ⌄ | Select ⌄ |

Question Number
(type question number manually)
Example 1: 12/a/ii   TYPE QUESTION NUMBER HERE..
Example 2: 5
Example 3: 5/a

Comment (Maximum 1000 chars)   Type your comment here..
Please give your comment clearly

Your Faculty Code   SELECT ⌄

Save

1	QP Code	Question Number	Entered Question Number	Added By
	70072	13/b	13/b	9126112

Comment :Given ratio values are not enough to solve the problem

Edit | Delete

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Examination : April / May Examination,2023 Academic year : 2023-2024

QUESTION PAPER COMMENT

Question Paper Code : 30125(SUBJECT CODE:CS3492)   ⌄   Submit

Question Paper Code : 30125
Exam date/Session :07-06-2023/FN
Board : Computer Science and Engineering

If no subdivision,Please Select "Not applicable"

Question Number	Select ⌄	Select ⌄	Select ⌄	Select ⌄

Question Number
(type question number manually)
Example 1: 12/a/ii
Example 2: 5
Example 3: 5/a

TYPE QUESTION NUMBER HERE..

Comment (Maximum 1000 chars)
Please give your comment clearly

Type your comment here..

Your Faculty Code   SELECT   ⌄

Save

1	QP Code	Question Number	Entered Question Number	Added By
	30125	16/a	16/a	9126142

Comment :Secondary keys are not specified properly

Edit | Delete

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Examination : April / May Examination,2023 Academic year : 2023-2024

QUESTION PAPER COMMENT

Question Paper Code : 30118(SUBJECT CODE:CS3352)   ⌄   Submit

Question Paper Code : 30118
Exam date/Session :08-06-2023/FN
Board : Computer Science and Engineering

If no subdivision,Please Select "Not applicable"

| Question Number | Select ⌄ | Select ⌄ | Select ⌄ | Select ⌄ |

Question Number
(type question number manually)
Example 1: 12/a/ii
Example 2: 5
Example 3: 5/a

TYPE QUESTION NUMBER HERE..

Comment (Maximum 1000 chars)
Please give your comment clearly

Type your comment here..

Your Faculty Code   SELECT   ⌄

Save

1	QP Code	Question Number	Entered Question Number	Added By
	30118	14/b(i)	14/b(i)	9126112

Comment :Out of syllabus

Edit | Delete

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Last Login Time : 12-04-2019 1:15:17 PM

Examination : April / May Examination,2019 Academic year : 2019-2020

QUESTION PAPER COMMENT

Question Paper Code : 52877 (SUBJECT CODE: CS6704) ⌄ Submit

Question Paper Code : 52877
Exam date/Session :12-04-2019/FN
Board : Computer Science and Engineering

If no subdivision,Please Select "Not applicable"

| Question Number | Select ⌄ | Select ⌄ | Select ⌄ | Select ⌄ |

Question Number
(type question number manually)
Example 1: 12/a/ii
Example 2: 5
Example 3: 5/a

TYPE QUESTION NUMBER HERE..

Comment (Maximum 1000 chars)
Please give your comment clearly

Type your comment here..

Your Faculty Code   SELECT ⌄

Save

1	QP Code	Question Number	Entered Question Number	Added By
	52877	15/b	15/b	9126040

Comment :Out of syllabus

Edit | Delete

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Examination : April / May Examination,2019 **Academic year :** 2019-2020

QUESTION PAPER COMMENT

Question Paper Code : 52862(SUBJECT CODE:CS6401) ⌄ Submit

Question Paper Code : 52862
Exam date/Session :26-04-2019/FN
Board : Computer Science and Engineering

If no subdivision,Please Select "Not applicable"

| Question Number | Select ⌄ | Select ⌄ | Select ⌄ | Select ⌄ |

Question Number
(type question number manually)
Example 1: 12/a/ii
Example 2: 5
Example 3: 5/a

TYPE QUESTION NUMBER HERE..

Comment (Maximum 1000 chars)
Please give your comment clearly

Type your comment here..

Your Faculty Code   ·   SELECT   ⌄

Save

1	QP Code	Question Number		Entered Question Number	Added By
	52862	14/a(ii)		14/a(ii)	9126110

Comment :Page fault values are missing

Edit | Delete