

Shri Someshwar Shikshan Prasarak Mandal's

**Sharadchandra Pawar College of Engineering & Technology,
Someshwarnagar Tal – Baramati, Dist – Pune 412 306**

(Approved by AICTE New Delhi, Recognized by Govt. of Maharashtra & Affiliated
to Savitribai Phule Pune University, Id.no.PU/PN.Engg./445/2012)

+91-2112-283185

* Fax : (02112) 283185

Web :www.secsomeshwar.ac.in

*Email:sspm1972@gmail.com




CRITERION I - CURRICULAR ASPECTS

INDEX

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)(AY 2023-24)

<u>Sr.No</u>	<u>Contents</u>
1	Academic Calendar
2	Unit Test
3	Project Review
4	Seminar
5	Internship
6	Continous Assement




PRINCIPAL
Sharadchandra Pawar College of Engineering & Technology
Someshwarnagar, Tal. Baramati, Dist. Pune (Pin : 412 306)



Shri Someshwar Shikshan Prasarak Mandal's

**Sharadchandra Pawar College of Engineering & Technology,
Someshwarnagar Tal – Baramati, Dist – Pune 412 306**

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ACADEMIC CALENDAR



**SHRI SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING & TECHNOLOGY,
SOMESHWARNAGAR**



A.Y.: 2023-2024

ACADEMIC CALENDAR

Semester:-I

Week No.	Month	Week Days							No. of Working Days	Events
		MON	TUE	WED	THU	FRI	SAT	SUN		
1	JUL	10	11	12	13	14	15	16	6	TE, BE Commencement of Teaching - 10 July, Course File Checking
2		17	18	19	20	21	22	23	6	Someshwar Technothon 2K23 on 21st and 22nd July
3		24	25	26	27	28	29	30	5	Attendance monitoring & Phone Calls
4		31							1	
5	AUG		1	2	3	4	5	6	5	Monthly Dept Academic Monitoring on 1st Aug
6		7	8	9	10	11	12	13	6	Commencement of SE - 10 Aug, Librarian's Day 12 Aug, First Defaulter list after a month
7		14	15	16	17	18	19	20	4	Independence Day 15 August
8		21	22	23	24	25	26	27	6	Tentative date of Unit Test 1 For T.E & B.E on 21st to 26th Aug
9	SEPT	28	29	30	31				4	Parents Teacher meet on 29th Aug
10						1	2	3	2	Monthly Dept Academic Monitoring on 1st Sept.
11		4	5	6	7	8	9	10	6	Teachers Day 5th Sept., Tentative dates of SPPU In-Sem for T.E ,B.E 4th to 10th Sept
12		11	12	13	14	15	16	17	5	Engineers Day 15 Sept
13	OCT	18	19	20	21	22	23	24	5	
14		25	26	27	28	29	30		5	Tentative dates of Unit Test 1 For S.E on 25th to 28th Sept
15								1	0	
16		2	3	4	5	6	7	8	5	Campus Cleaning on occasion of Gandhi Jayanti 2 Oct., Monthly Dept Academic Monitoring on 3rd Oct.
17	NOV	9	10	11	12	13	14	15	6	Defaulter list after second month
18		16	17	18	19	20	21	22	6	Tentative dates of SPPU In-Sem for S.E. 16th to 21st Oct.
19		23	24	25	26	27	28	29	5	Tentative date of Unit Test 2 For T.E and B.E on 23rd to 28th Oct
20		30	31						2	
21	DEC			1	2	3	4	5	4	Final Defaulter list, Term Submission of T.E and B.E 2nd and 3rd Nov, Conclusion of Teaching for TE, BE - 4th Nov.
22		6	7	8	9	10	11	12	5	Monthly Dept Academic Monitoring End Semester Exam Academic Monitoring on 6st Nov.
23		13	14	15	16	17	18	19	4	SPPU Oral and Practical Examination of T.E and B.E
24		20	21	22	23	24	25	26	6	SPPU Theory Examination of T.E and B.E, Tentative date of Unit Test 2 For S.E. on 20th to 25th Nov.
25	DEC	27	28	29	30				3	Internal FeedBack
26						1	2	3	2	Final Defaulter list, Term Submission of S.E 1st and 2nd Dec
27		4	5	6	7	8	9	10	6	Conclusion of Teaching for SE - 4 Dec.
28		11	12	13	14	15	16	17	6	SPPU Oral and Practical Examination of S.E.
29	DEC	18	19	20	21	22	23	24	6	SPPU Theory Examination for S.E.
30		25	26	27	28	29	30	31	5	
No. of Week Days		21	21	23	24	24	24		137	

HOLIDAYS
29/07 Moharam
15/08 Independence Day
16/08 Parasi New Year
11/09 Last Shrawani Somwar
19/09 Ganesh Chaturthi
28/09 Anant Chaturdashi
02/10 Mahatma Gandhi Jayanti
24/10 Dasara
10/11 Dhantrayodashi
14/11 Diwali
15/11 Bhaubij
27/11 Guru nanak Jayanti
25/12 Chirstmas

NOTE:-
Principal Meet will be conduct as and when required
HOD Meet will be conduct as and when required
GFM Meet will be conduct as and when required
Continuous assessment of assignment/ experiments /project/seminar by respective Guide/Subject teacher once in month.

Howal
Academic Coordinator

[Signature]
Principal



**SHRI SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING & TECHNOLOGY,
SOMESHWARNAGAR**



A.Y.: 2023-2024

ACADEMIC CALENDAR

Semester:-I

Week No.	Month	Week Days							No. of Working Days	Events
		MON	TUE	WED	THU	FRI	SAT	SUN		
1	JUL	10	11	12	13	14	15	16	6	TE, BE Commencement of Teaching - 10 July, Course File Checking
2		17	18	19	20	21	22	23	6	Someshwar Technothon 2K23 on 21st and 22nd July
3		24	25	26	27	28	29	30	5	Attendance monitoring & Phone Calls
4		31							1	
5	AUG		1	2	3	4	5	6	5	Monthly Dept Academic Monitoring on 1st Aug
6		7	8	9	10	11	12	13	6	Commencement of SE - 10 Aug, Librarian's Day 12 Aug, First Defaulter list after a month
7		14	15	16	17	18	19	20	4	Independence Day 15 August
8		21	22	23	24	25	26	27	6	Tentative date of Unit Test 1 For T.E & B.E on 21st to 26th Aug
9	SEPT	28	29	30	31				4	Parents Teacher meet on 29th Aug
10						1	2	3	2	Monthly Dept Academic Monitoring on 1st Sept.
11		4	5	6	7	8	9	10	6	Teachers Day 5th Sept., Tentative dates of SPPU In-Sem for T.E ,B.E 4th to 10th Sept
12		11	12	13	14	15	16	17	5	Engineers Day 15 Sept
13	OCT	18	19	20	21	22	23	24	5	
14		25	26	27	28	29	30		5	Tentative dates of Unit Test 1 For S.E on 25th to 28th Sept
15								1	0	
16		2	3	4	5	6	7	8	5	Campus Cleaning on occasion of Gandhi Jayanti 2 Oct., Monthly Dept Academic Monitoring on 3rd Oct.
17	NOV	9	10	11	12	13	14	15	6	Defaulter list after second month
18		16	17	18	19	20	21	22	6	Tentative dates of SPPU In-Sem for S.E. 16th to 21st Oct.
19		23	24	25	26	27	28	29	5	Tentative date of Unit Test 2 For T.E and B.E on 23rd to 28th Oct
20		30	31						2	
21	DEC			1	2	3	4	5	4	Final Defaulter list, Term Submission of T.E and B.E 2nd and 3rd Nov, Conclusion of Teaching for TE, BE - 4th Nov.
22		6	7	8	9	10	11	12	5	Monthly Dept Academic Monitoring End Semester Exam Academic Monitoring on 6st Nov.
23		13	14	15	16	17	18	19	4	SPPU Oral and Practical Examination of T.E and B.E
24		20	21	22	23	24	25	26	6	SPPU Theory Examination of T.E and B.E, Tentative date of Unit Test 2 For S.E. on 20th to 25th Nov.
25	27	28	29	30				3	Internal FeedBack	
					1	2	3	2	2	Final Defaulter list, Term Submission of S.E 1st and 2nd Dec
		4	5	6	7	8	9	10	6	Conclusion of Teaching for SE - 4 Dec.
		11	12	13	14	15	16	17	6	SPPU Oral and Practical Examination of S.E.
		18	19	20	21	22	23	24	6	SPPU Theory Examination for S.E.
		25	26	27	28	29	30	31	5	
No. of Week Days		21	21	23	24	24	24		137	

HOLIDAYS
29/07 Moharam
15/08 Independence Day
16/08 Parasi New Year
11/09 Last Shrawani Somwar
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24/10 Dasara
10/11 Dhantrayodashi
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15/11 Bhaubij
27/11 Guru nanak Jayanti
25/12 Chirstmas

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Continuous assessment of assignment/ experiments /project/seminar by respective Guide/Subject teacher once in month.

Howal
Academic Coordinator

[Signature]
Principal



**SHRI SOMESHWAR SHIKSHA PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING &
TECHNOLOGY, SOMESHWARNAGAR**

Record No.:- ACD/R/01

Revision:- 00

Date:- 16-06-2014

A.Y.:-2023-2024

**DEPARTMENT OF ELECTRICAL ENGINEERING
DEPARTMENTAL ACADEMIC CALENDAR**

Semester:-I

Week No.	Month	Week Days							No. of Working Days	Events
		MON	TUE	WED	THU	FRI	SAT	SUN		
										II, BE Commencement of Teaching - 10 July
										Attendance monitoring & Phone Calls - 14 July
1	JUL	10	11	12	13	14	15	16	6	Course File Checking
2		17	18	19	20	21	22	23	6	Internal FeedBack
3		24	25	26	27	28	29	30	5	First Defaulter list after a month
4		31							1	Independence Day 15 August
5	AUG		1	2	3	4	5	6	5	Commencement of SE - 17 Aug
6		7	8	9	10	11	12	13	6	Unit Test 1 For T.E & B.E on 29st to 31th Sept
7		14	15	16	17	18	19	20	4	Parents Teacher meet
8		21	22	23	24	25	26	27	6	Teacher's Day 5 Sept.
9	SEPT	28	29	30	31				4	Engineers Day 15 Sept
10						1	2	3	2	Librarian's Day 27 Sept.
11		4	5	6	7	8	9	10	6	Tentative dates of SPPU In-Sem for T.E .B.E 4th to 08th Oct.
12		11	12	13	14	15	16	17	5	Campus Cleaning on occasion of Gandhi Jayanti 2 Oct.
13	OCT	18	19	20	21	22	23	24	5	Defaulter list after second month
14		25	26	27	28	29	30		5	Guest Lecture or Industrial Visits 25 to 27 Sept & 09 to 20 Sept
15								1	0	Internal FeedBack
16		2	3	4	5	6	7	8	5	Conclusion of Teaching for TE & BE - 5 Nov.
17	NOV	9	10	11	12	13	14	15	6	Final Defaulter list
18		16	17	18	19	20	21	22	6	Term Submission of T.E and B.E
19		23	24	25	26	27	28	29	5	Internal Mock oral. Practical exam
20		30	31						2	SPPU Oral and Practical Examination of T.E and B.E
21	DEC			1	2	3	4	5	4	Commencement of FE 21th Nov.
22		6	7	8	9	10	11	12	5	Tentative dates of SPPU In-Sem for S.E. 15th to 20th Dec.
23		13	14	15	16	17	18	19	4	Final Defaulter list
24		20	21	22	23	24	25	26	6	Term Submission of S.E
25									3	Internal FeedBack
		4	5	6	7	8	9	10	6	SPPU Oral and Practical Examination of S.E.
		11	12	13	14	15	16	17	6	
		18	19	20	21	22	23	24	6	
		25	26	27	28	29	30	31	5	SPPU Theory Examination for T.E and B.E
No. of Week Days		21	21	23	24	24	24		137	

HOLIDAYS
09/08 Moharam
15/08 Independence Day
16/08 Parasi New Year
22/08 Last Shrivani Somwar
31/08 Ganesh Chaturthi
09/09 Anant Chaturdashi
02/10 Mahatma Gandhi Jayanti
05/10 Dasara
22/10 Dhantrayodashi
24/10 Diwali
26/10 Bhaubij
08/11 Guru nanak Jayanti
25/12 Chirstmas
15/01/2023 Makar Sankranti

NOTE:-
Principal Meet will be conduct as and when required
HOD Meet will be conduct as and when required
GFM Meet will be conduct as and when required
Continuous assessment of assignment/ experiments /project/seminar by respective Guide/Subject teacher once in month.

Arate
Academic Coordinator

Padlone
HOD



SHRI SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR CLLEGE OF ENGINEERING AND
TECHNOLOGY, SOMESHWARNAGAR

Record No.:- AC/D/R/01

Revision:- 00

Date:-05/12/2023

Semester:-II

A.Y.:-2023-2024

ACADEMIC CALENDER

Week No.	Month	Week Days							No. of Working Days	Events
		MON	TUE	WED	THU	FRI	SAT	SUN		
1	DEC	11	12	13	14	15			5	Commencement of Teaching Sem II on 11 Dec 23 TE and BE
2		18	19	20	21	22	23		6	Course File Checking on 23th Dec
3	JAN		26	27	28	29	30		5	Display 1st week attendance on 30 Dec.
4		1	2	3	4	5			5	3 January Savitribai Phule Jayanti celebration
5		8	9	10	11	12	13		6	Commencement of teaching for FE and SE 8 January 2024
6		15	16	17	18	19			5	Routine academic work
7		22	23	24	25		27		5	26 January Republic day celebration
8		29	30	31					3	Internal feedback, Departmental parent meets
9	FEB				1	2			2	29 Jan to 4 Feb NSS Camp
10		5	6	7	8	9	10		6	Sharad Somotsva 5-10 february
11		12	13	14	15	16			5	Unit test FE/SE/TE/BE 12-16 Feb
12			20	21	22	23	24		5	Ins sem exam SE/ TE /BE 20-24 Feb.2024 (Tentative)
13	MARCH	26	27	28	29				4	27 Feb Marathi day .Science Day Celebration on 28th Feb. Result analysis of Unit Test FE/SE/TE/BE
14						1			1	1 March world book day
15		4	5	6	7		9		5	In Sem exam FE 4-9 March (Tentative)international womens day celebration 9 March
16		11	12	13	14	15			5	Faculty development programme
17		18	19	20	21	22	23		6	Routine academic work
18	APRIL		26	27	28		30		4	Institute Parent meet
19		1	2	3	4	5	6		6	Routine academic work
20		8		10		12	13		3	Technothon 2024
21		15	16		18	19	20		5	Defaulter list of SE, TE and BE 20 April
22		22	23	24	25	26	27		6	Counseling of Detained student's parents on 22th April Conclusion of the term SE/TE/BE and Submission and term work completion 30 April
23	29	30								
24	MAY			1	2	3	4		2	Conclusion of the term for FE 5 May 2024 Tentative commencement of the OR/PR exam 6/5/2024
No. of Week Days		21	21	20	20	20	20		105	

HOLIDAYS
25 Dec Christmas
26/01 Republic Day
19/02 Chhatrapati Shivaji Maharaj Jayanti
8 March Mahashivratri
25 March Holi
29 March Good Friday
9 April Gudhi Padva
11 April Ranzan Eid
14 April Dr. Babasaheb Jayanti
17 April Ramnavami
21 April Mahaveer Jayanti

NOTE:-
Principal Meet will be conduct as and when required
HoDs will address the students of department once in a month
Industrial visit, guest lectures, expert lectures will be conducted on department level.
HOD Meet will be conduct as and when required
GFM Meet will be conducted once in a week.
Continuous assessment of assignment/ experiments /project/seminar by respective Guide/Subject teacher once in month.

Academic Coordinator

HOD



Shri Someshwar Shikshan Prasarak Mandal's

**Sharadchandra Pawar College of Engineering & Technology,
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UNIT

TEST



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING & TECHNOLOGY, SOMESHWARNAGAR

Record No:-

Revision:-

Date:-

Date:28/02/2024

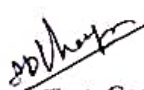
Department: Electrical

AY-2023-24

Notice and Schedule

This is hereby informed to all SE/TE/BE Electrical Engineering Respected Teaching faculty members and Dear , students college level Unit Test of SEM-II is scheduled from 04/03/2024 to 06/03/2024. The time-table for Unit Test is as follows :-

Class	Date	Subject	Time
BE (30Marks)	04/03/2024	SGP	9.30 AM to 10.30 AM
	04/03/2024	RE-DIC	01.30 PM to 02.30 PM
	05/03/2024	SG (ELECTIVE-III)	9.30 AM to 10.30 AM
	05/03/2024	IE (ELECTIVE-IV)	01.30 PM to 02.30 PM
TE (30Marks)	04/03/2024	PS-II	9.30 AM to 10.30 AM
	04/03/2024	CADEM	01.30 PM to 02.30 PM
	05/03/2024	CSE	9.30 AM to 10.30 AM
	05/03/2024	EL-II(EM)	01.30 PM to 02.30 PM
SE (30Marks)	04/03/2024	PS-I	9.30 AM to 10.30 AM
	04/03/2024	EM-I	01.30 PM to 02.30 PM
	05/03/2024	NA	9.30 AM to 10.30 AM
	05/03/2024	NMCP	01.30 PM to 02.30 PM
	06/03/2024	FMA	9.30 AM to 10.30 AM


Departmental Test Coordinator

Prof. D.D.Changan


HOD

Prof. G.G.Gadhawe
HEAD OF DEPARTMENT
ELECTRICAL ENGINEERING



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING & TECHNOLOGY, SOMESHWARNAGAR

Record No:-

Revision:-

Date:-

Date:01/03/2024

Department: Electrical

AY-2023-24

Supervision Chart

This is hereby informed to all faculties of Electrical Engineering department that collect answer sheets and question paper from EMI lab at 9.10 AM/01.10 PM. You should be present in exam hall at 9.20 AM/01.20 PM. Supervision chart is as follows:-

Exam hall: B-308

Class	Date	Time	Faculty Name	Sign
(SE,TE,BE)	04/03/2024	9.30 AM to 10.30 AM	Prof. P.D.Gawade	
		01.30 PM to 02.30 PM	Prof. S.S.Bhise	
(SE,TE,BE)	05/03/2024	9.30 AM to 10.30 AM	Prof. P.S.Shinde	
		01.30 PM to 02.30 PM	Prof. A.C.Sakat	
(SE,TE,BE)	06/03/2024	9.30 AM to 10.30 AM	Prof. S.B.Sorate	

Departmental Test Coordinator

Prof. D.D.Changan

HOD

Prof. G.G.Gadhave

HEAD OF DEPARTMENT
ELECTRICAL ENGINEERING



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SharadchandraPawar College of Engineering and Technology

Someshwarnagar, Baramati-412306
DEPARTMENT OF ELECTRICAL ENGINEERING
 A Y 2023-24 SEM-II

Total No. of Questions [4]

III. Unit Test

Seat/Roll No.

Illumination Engineering(2019 Pattern)

[Time: 1 Hour]

[Max. Marks: 30]

Instructions to the candidates:

1. Answer Q 1 or Q.2, Q.3 or Q.4.
2. Neat diagrams must be drawn wherever necessary.
3. SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
4. SharadchandraPawar College of Engineering and Technology
5. Someshwarnagar, Baramati-412306 DEPARTMENT OF ELECTRICAL ENGINEERING
6. A Y 2023-24 SEM-I
7. Assume suitable data if necessary.

1.	a. Explain the terms. 1. Visual perception 2. Contrast	[5]	CO1
	b. Enlist the good and bad effects of Lighting.	[5]	CO1
	c. State the various methods of controlling natural light.	[5]	
OR			
2	a. Explain optical system of human eye with suitable diagram.	[5]	CO1
	b. Explain in brief quantification and measurement of light.	[5]	CO1
	c. State the properties of light.	[5]	CO1
3	a. What are different materials used in manufacturing lamps? Explain any two of them in brief	[5]	CO1
	b. With suitable diagram explain construction and working of sodium vapour lamp.	[5]	CO1
	c. What is a reflector? State its necessity and advantages.	[5]	CO1
OR			
4	a. Explain induction lamp operation and its application?	[5]	CO1
	b. Explain with the help of a suitable diagram the gas discharge phenomena.	[5]	CO1
	c. What are types of lighting fixtures according to installation types? Explain any two.	[5]	CO1



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SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING & TECHNOLOGY, SOMESHWARNAGAR

Record No:-

Revision:-

Date:-

Department: Electrical

AY-2023-24

Class:SE/TE/BE - BE

Date: 05/03/2024

Subject Name: Illumination Engineering.

Unit Test Attendance

Roll No	Name of Student	Sign	Marks
1	Nadki Abhishek		12
2	Bhandwalkar Sanket		15
3			
4	Kenhale Diksha R.		30
5			
6			
7	Jugtap Nishikant Madhukar		04
8			
9	Kalbhos Sakshi T.		25
10			
11	Pilane Saniya R.		23
12			
13			
14	Wable Vidya S.		25
15			

No. of Present Student	No. of Absent Student	No. of Pass Student	No. of Fail Student	Percentage Result

Prof. Sorates B
Name of Supervisor

Sign of Supervisor

Subject Teacher

Test Coordinator
Prof. D.D.Changan

HOD
Prof. G.G.Gadhav



SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING AND TECHNOLOGY

Shri Someshwar Shikshan Prasarak Mandal's
Someshwarnagar, Tal : Baramali, Dist : Pune 412 306

CLASS TEST NO.: 01

Roll No 404 PRN: _____ Date of Exam: 05/09/2024

Name of the Student: kinhale diksha R.

Name of the Subject: Illumination Engg Class BE

Main Ans. Book	No. of Supplement	Total	<u>Rate</u> <u>05/09/24</u> Signature Of Supervisor									
1	0	1										
Q No.	1	2	3	4	5	6	7	8	9	10	Total Marks	Signature of Assessor
Marks	15		15								30/30	

(Write on both sides and start writing of this page.)

Q. ① a)

→ ① Visual Perception -

- It is interpretation of impressions transmitted from the retina to the brain in terms of information about physical world displayed before eyes.
- visual perception involves any one or more of following,

Recognition of the presence of some-things (object, aperture or medium), identifying it; Locating the position, nothing its relation to otherthing, identifying movement, colour, brightness or form.

② contrast -

- The relationship between luminance object and its immediate background.
- It is equal to $\frac{L_1 - L_2}{L_1}$ or $\frac{L_2 - L_1}{L_1}$ or $\frac{\Delta L}{L_1}$

where, L_1 and L_2 are luminance object and background.

- The above ratio $\frac{\Delta L}{L_1}$ is known as

Weber's Fraction.

(b) → • Good Effects of Lighting -

- (i) Reduction of accidents / Injuries
- (ii) Increase clarity, feel comfortable to do different activities and to perform different task.
- (iii) Saves electrical & human energy
- (iv) Efficiency of workers increases to comfort provided in good lighting.
- (v) It saves times to performing different activities for provisions of good lighting.

• Bad Effects of Lighting -

- (i) Productivity affected
- (ii) Lack of clarity due to insufficient lighting or overlighting.
- (iii) Errors in a job due to insufficient lightning.
- (iv) Lack of Accuracy for improper lightning or fitting
- (v) Lack of accident / injuries if lighting is not sufficient.
- (vi) Efficiency of workers decreases if lighting is not adequate for task to be performed.

(c) → • Methods of controlling natural light-

- (1) Sun-breaks can be used
- (2) Flaps can be used in vehicles
- (3) Frosters glasses used of windoors

in offices and home place.

④ sun-goggles can be used

⑤ Roofs are made-up of zig-zag design, also used flosters-glasses to avoid glare of eyes.

Q. ③

→ ①

Lamp materials

① Tungsten

② Glass

③ ceramics

① optical ceramic

② convential ceramic

④ Gases

⑤ phosphors

① Tungsten -

① Then there after in 1909 Pacz. develop ed a process of manufacturing the "Tungsten".

② Universally now a days tungsten filaments used in incandscent lamp.

③ Specialities of tungsten -

- Higher operating temperature due to higher melting point

3410°C .

- High temperture better is luminan ace efficiency.

(iv) Filaments lamps the filaments supports are made up of Tungsten halogen.

(2) Glass -

(i) It is non-crystalline inorganic material.

(ii) Glass can be classified into four groups :

(1) Lime soda silicate

(2) Lead alkali silicate

(3) Borosilicate glasses

(4) Alumina silicate glasses.

(iii) Most commonly used in Lamp Industries soda-lime silicate.

(iv) It is used to evaluate the general incandescent, general, fluorescent and low-wattage discharge lamp.

(v) The internal component of incandescent and fluorescent lamp is made up of lead alkali silicate.

(vi) It has higher resistivity.

(b) → Working & construction of sodium vapour lamp -

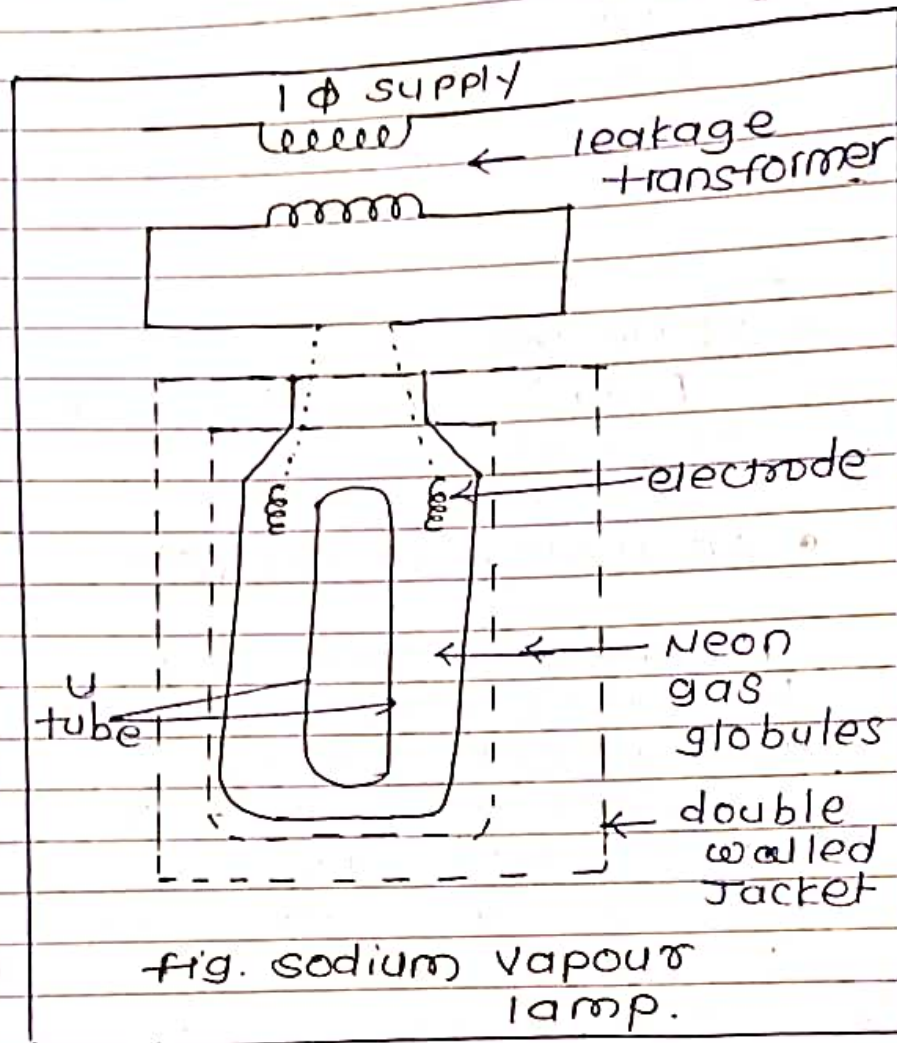
• Working & construction -

(i) It consists of U-tube shape of tube fitted with neon-glass gas and globules sodium.

(ii) For performance of 300°C temperature to be maintained.

(iii) ~~Provi~~ Protect the discharging tube it containing of evacuated by double walled glass jacket.

(iv) This prevent the heat loss.



(v) At the starting time its take 10-15 time or minutes the colour of lamp is pink, then discharging the lamp colour is pink. yellow.

• Advantages

- (i) yellow light
- (ii) Low operating temperature
- (iii) suitable for street lighting

• Disadvantages -

- (i) High cost
- (ii) low/poor power factor
- (iii) It has starting time

• Application -

- street lighting
- Flood lighting
- railway yards

(c) →

- Reflector → Bright light sources in direction of view.

• Necessity of Reflector -

1. Practically all lamps have very high degree of brightness and if it is one eyes of glare and may not sustained the human.
- ii. To avoid glare of eyes, feel comfort and safe save to the lights provisions of Reflector Reflector is necessary.

• Advantages of Reflector -

- (i) It directs lights of perfect / requires direction.
- (ii) Reflectors provides mechanical protection to the light source / lamp / tubes / bulb.
- (iii) Reflector provide protection from dust, dirt and water, etc.
- (iv) Life of lamp is more if suitable reflector provide.



SOMESHWAR SHIKSHAN PRASARAK MANDAL's
Sharadchandra Pawar College of Engineering and Technology
Someshwarnagar, Baramati 412306
DEPARTMENT OF ELECTRICAL ENGINEERING
A.Y 2023-24 SEM-II

Total No. of Questions: [6]

SE Unit Test

Seat/RollNo

fundamental of Microcontroller & Application
(2019Pattern)

[Time:1Hour]

[Max.Marks:30]

Instructions to the candidates:

1. Answer Q.1 or Q.2, Q.3 or Q.4
2. Neat diagrams must be drawn wherever necessary.
3. Assume suitable data if necessary.

1. a. Explain in detail Program Counter register (PC) & Stack pointer register. [5] CO1
b. Explain RAM memory Organization of 8051. [5] CO1
c. Explain Program Status word (PSW) with control word format. [5] CO1

OR

2. a. Explain the function of PSEN, EA, ALE pin. [5] CO1
b. Explain the functions of B register & Data Pointer register (DPTR). [5] CO1
c. Explain the special function register of 8051 Microcontroller. [5] CO1
3. a. Write a program to copy the content of external data memory location 3000H to internal memory location 20H. [5] CO2
b. Explain any 5 bit-oriented instructions of 8051 Microcontroller. [5] CO2
c. Write short note on Jump Instruction. [5] CO2

OR

4. a. Explain following Instructions. [5] CO2
i) ANI A,R1 ii) SUBB A,B. [5] CO2
b. Write program for addition of two 8 bit numbers. The numbers are 10H and 0A1H respectively & store result at External memory location 2000H.
c. Explain addressing modes of 8051 microcontroller with example. [5] CO2



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING & TECHNOLOGY, SOMESHWARNAGAR

Record No:-

Revision:-

Date:-

Department: Electrical

AY-2023-24

Class:SE/TE/BE

Date:06/03/24

Subject Name: FMA

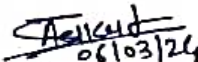
Unit Test Attendance


Roll No	Name of Student	Sign	Marks
1			
2			
3	Phise Prathmesh Vinodkumar		<u>01</u>
4			
5	Bhadalle Vishant Prashant		19
6	Holkar Prashant Namdev		15
7			
8	Jadhav Prajakta Pradip		<u>09</u>
9			
10			
11			
12	Jagtap Viraj Rajendra		<u>04</u>
13			
14			
15			
16			
17			
18			
19	Kutwal daival		<u>05</u>
20			
21			
22	Mose omkar Bhimrao		<u>11</u>
23			
24			
25			
26			
27			
28	Suryawanshi Shreya		20


Roll No	Name of Student	Sign	Marks
29			
30	Thombare Akash Hanvrent	AHS	05
31	Thombare Divya Kundlik	DThombare	20


No. of Present Student	No of Absent Student	No. of Pass Student	No. of Fail Student	Percentage Result

Prof. Sakant A.C
Name of Supervisor


06/03/24
Sign of Supervisor


Prof. Sorates B
Subject Teacher


Test Coordinator
Prof. D.D.Changan


HOD
Prof. G.G.Gadhawe



Roll No. 231 PRN: _____
Name of the Student: Thombare Divya kundlik Date of Exam: 06/3/2024
Name of the Subject: E17A Class SE Electrical

Main Ans. Book	No. of Suppliment	Total	Signature of Supervisor	
1	+	= 1	<u>Ashtad</u> 06/03/24	

Q. No.	1	2	3	4	5	6	7	8	9	10	Total Marks	Signature of Assessor
Marks	<u>14</u>	<u>-</u>	<u>-</u>	<u>06</u>							<u>20</u> <u>30</u>	<u>Ashtad</u>

(Write on both sides and start writing of this page.)

- Q1) a) Program Counter (PC)
- program counter it is 16-bit memory address. program counter fetching the memory for program memory.
 - program counter bank of a 8051 memory.
 - program counter used instructions of JMP, CALL and RET etc. execution of the memory program.

Stack pointer - (SP)

- stack pointer it is 8 bit memory address
- stack pointer used instructions of PUSH and POP.
- if the returns the operation the push operation is performed. and the read the memory POP operation is performed.
- stack pointer used instructions PUSH and POP the memory in program.

b)

- RAM memory organization of 8051.
- up to 256 byte of internal memory in program and 64k external memory in program memory.
- memory is divided into two parts external memory and internal memory.
- \overline{EA} pin is used for RAM memory organization.

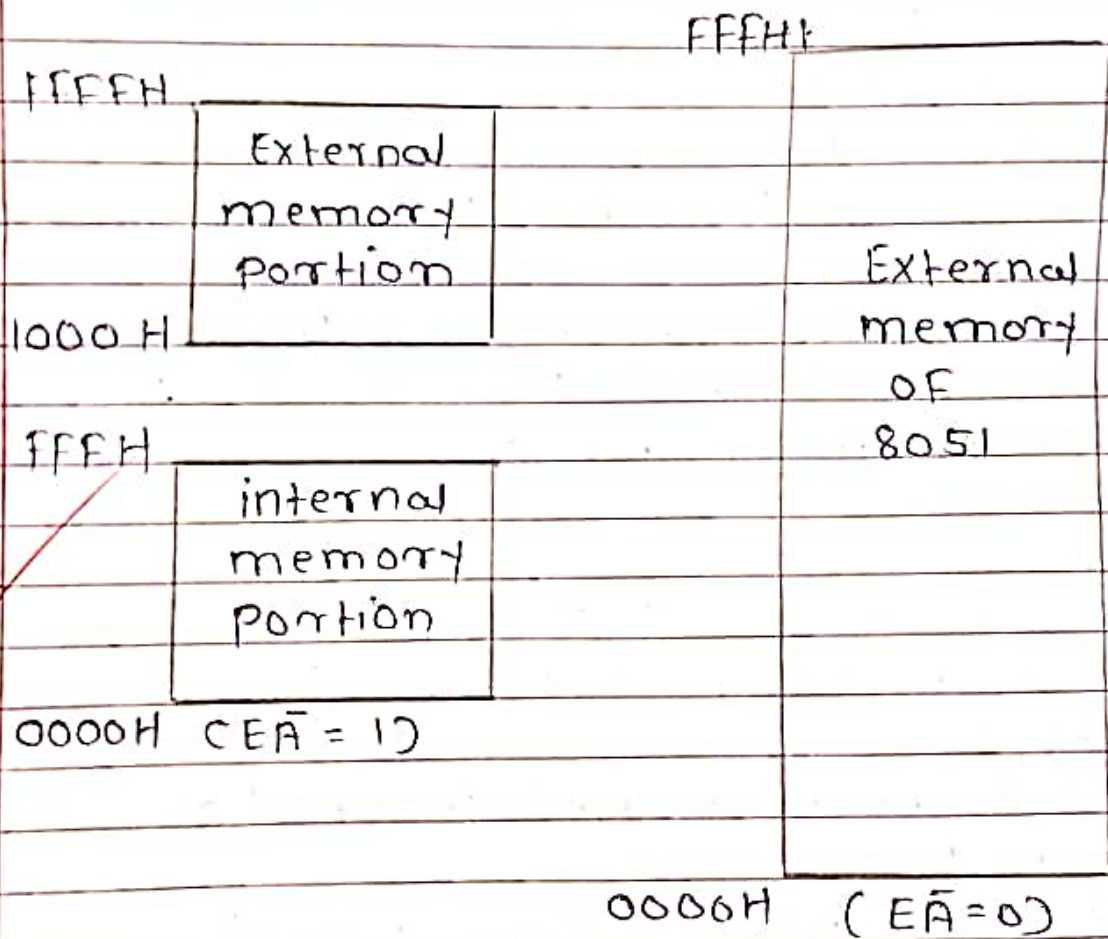


fig. memory map

- above fig. Shows the memory map of external memory and internal memory.
- memory initialize to 0000H up to FFFFH

MSB

LSB

Memory Address bit Space (0111 to 011)
Bank 3
Bank 2
Bank 1
Bank 0

fig. RAM memory.

- RAM memory divide the memory of MSB (most significant bit) to LSB (last significant bit)
- memory divided in external and internal program memory. It used special register bit. \overline{EA} pin is high internal memory is stored and \overline{EA} pin is low external memory is stored.
- RAM memory organization stored the memory in small chip perF format.
- stored the memory in bank of 8051.

05

c) Program status word (PSW)

- PSW contains the information of Status Flag is shown in following Fig.

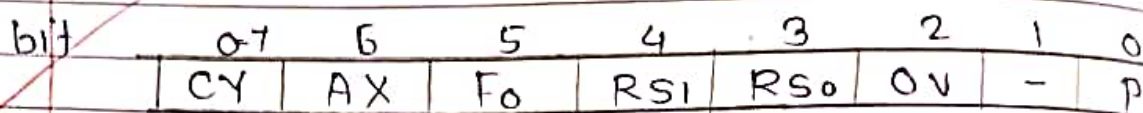


fig. Flag status.

Flag - Flag is a Flip-Flop or single bit operation used to presence of absence of certain thing.

1) CY - carry Flag

- Carry flag generate the arithmetic operation for carry generated for this instructions. For subtraction operation is performed it is borrow.

- It used unsigned operation.

2) Axillary carry Flag.

- It indicates the carry generated in the MSB or LSB position.

3) F₀ -

It indicates the special purpose Flag.

4) RS₁ and RS₀

- It indicates the register bank of bit-0 or bit-1. bit-0 stored the even number and bit-1 stored odd number.

5) OV - It indicates the overflow flag.
It is used for sign operation.

6) P - P indicates the parity flag.

05

Q 4. a)

i) ANI A, R1
- This instruction increment the register bit 1. Stored to accumulator.

ii) SUBB A, B
- This instruction subtract the value of B and the stored the result of accumulator.
- Its register bit 1
- Its oscillator time is 12

a)

b) ORG 0000 H,
MOV A, #10 H ;
MOV B, #0A1 H ;
Add A, B.

END

a)

Q) Addressing Modes of 8081 are -

- 1) Immediate addressing mode
- 2) Direct addressing mode
- 3) Indirect addressing mode
- 4) Register addressing mode.

1) Immediate addressing mode

- Immediate addressing mode is name because the data stored in immediately in operand.

Example -

1) MOV A, # 04H

2) ADD A, # 20H

2) Direct addressing mode

- This instruction is name because the data is directly stored in the operand.

Example -

1) MOV A, 20H

2) SUB B, 10H

- 3) Indirect addressing mode.
- indirect addressing mode is name because the data do not stored directly in operand.

Example -

1) MOV A, @ 20H

2) DIV A, @ 10H

- 4) Register addressing mode.
- In this type of addressing mode stored the register bit.

Example.

1) MOV A, R₀

2) ADD B, R_n

09



Shri Someshwar Shikshan Prasarak Mandal's

**Sharadchandra Pawar College of Engineering & Technology,
Someshwarnagar Tal – Baramati, Dist – Pune 412 306**

(Approved by AICTE New Delhi, Recognized by Govt. of Maharashtra & Affiliated
to Savitribai Phule Pune University, Id.no.PU/PN.Engg./445/2012)

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PROJECT REVIEW



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING AND TECHNOLOGY,
SOMESHWARNAGAR

Record No: -

Revision: -

Date: -

BE Electrical Project Group List

Department: Electrical Engineering

Academic Year: 2023-24

Group No.	STUDENT NAME	Guide Name	Sign
1	SANIYA RAVINDRA PILANE	Prof. Sorate S.B	<u>Sorate</u>
	DIKSHA RAJENDRA KINHALE		
	DHASADE PRITEE MOHAN		
2	WABLE VIDYA SHIVAJI	Prof.Gadhav G.G	
	KALBHOR SAKSHI TUKARAM		
	AADKI ABHISHEK YASHWANT		
3	JARAD RUSHIKESH VISHWAS	Prof..Sorate S.B	<u>Sorate</u>
	SHINDE ADITYA UTTAM		
	DHUMAL SHUBHAM JAYANT		
4	BHANDWALKAR SANKET DHANANJAY	Prof.Gadhav G.G	
	WABALE SANDIP DIPAK		
	GAIKWAD RUSHIKESH DASHARATH		
5	WAYAL PRATIK RAJENDRA	Prof. Sorate S.B	<u>Sorate</u>
	JAGTAP NISHIKANT MADHUKAR		
	OM SANJAY KUDALE		
	DHONE AKASH SURESH	Prof.Gadhav G.G	
	PHADKE DNYANESHWAR DASHRATH		
	SASTE SWAPNIL BAPURAO		

Sorate

PROJECT COORDINATOR

Gadhav

HEAD OF DEPARTMENT



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING AND TECHNOLOGY,
SOMESHWARNAGAR

Record No: -

Revision: -

Date: -

BE Electrical Project Group List


Department: Electrical Engineering

Academic Year: 2023-24

Group No.	STUDENT NAME	Contact No.	SIGN
1	SANIYA RAVINDRA PILANE	9322626734	
	DIKSHA RAJENDRA KINHALE	8530772298	
	DHASADE PRITEE MOHAN	9604067202	
2	JARAD RUSHIKESH VISHWAS	8182029696	
	SHINDE ADITYA UTTAM	9766957085	
	DHUMAL SHUBHAM JAYANT	9657975909	
3	WABLE VIDYA SHIVAJI	8308640247	
	KALBHOR SAKSHI TUKARAM	8308291395	
	AADKI ABHISHEK YASHWANT	9527167048	
4	BHANDWALKAR SANKET DHANANJAY	9359024455	
	WABALE SANDIP DIPAK	9890175832	
	GAIKWAD RUSHIKESH DASHARATH	9130923772	
5	WAYAL PRATIK RAJENDRA	9595426300	
	JAGTAP NISHIKANT MADHUKAR	7219824555	
	OM SANJAY KUDALE	8805133823	

CLASS COORDINATOR

HEAD OF DEPARTMENT



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
Sharadchandra Pawar College of Engineering and Technology
Someshwarnagar, Baramati-412306
DEPARTMENT OF ELECTRICAL ENGINEERING
A.Y.-2023-24 (SEM-I)


Date-18/08/2023

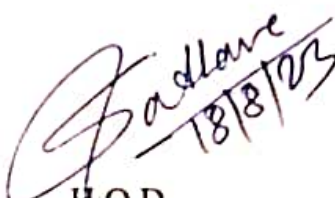
NOTICE

All B.E Electrical students are hereby informed that, your **Project Idea Presentation** will be scheduled on Fri, 25/08/2023 at 9.00AM Onwards. Be present on time for presentation.

Along With: -

1. Base Paper (IEEE)
2. PPT's


Project Coordinator


H.O.D.
(Electrical Engineering)

PROJECT EVALUATION SHEET

Name of Students	Marks out of 50	Group No- 01	
		Saniya R.P.	oiksha R.K. ohayade P.T
Problem Definition	05	4	4
Scope and Objectives	10	8	8
Literature Review	10	8	9
Methodology	10	8	9
Block Diagram/Architecture	10	8	8
Project Planning	05	4	4
Total	50	40	42

Name of Students	Marks out of 50	Group No- 02		
		Jaiadd R.V	Shinde A.Y	ohmad S.J
Problem Definition	05	4	3	3
Scope and Objectives	10	8	7	6
Literature Review	10	8	8	7
Methodology	10	8	8	8
Block Diagram/Architecture	10	8	8	8
Project Planning	05	4	4	4
Total	50	40	38	36

SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING & TECHNOLOGY
DEPARTMENT OF ELECTRICAL ENGINEERING

PROJECT EVALUATION SHEET

Name of Students	Marks out of 50	Group No- 03	
		Topic Name-	Adaki A.A
Problem Definition	05	4	3
Scope and Objectives	10	8	6
Literature Review	10	8	8
Methodology	10	8	8
Block Diagram/Architecture	10	8	8
Project Planning	05	4	4
Total	50	40	37

Name of Students	Marks out of 50	Group No- 03	
		Topic Name-	Adaki A.A
Problem Definition	05	4	3
Scope and Objectives	10	7	6
Literature Review	10	7	6
Methodology	10	7	6
Block Diagram/Architecture	10	7	6
Project Planning	05	3	3
Total	50	35	30

PROJECT EVALUATION SHEET

Name of Students	Marks out of 50	Group No- 01	
		Topic Name-	
Timely submission	05		
Formatting and Report Writing Style	05		
Abstract, Literature Survey, Conclusion	05		
Refereed References	05		
Grammatical correctness in the report	05		
Total	25	19	21

IoT based Industrial plant safety Gas leakage.

Sadida Plange Diksha Kinhat Phasade Pooje.

3 4 4 4 4 4
4 4 5 4 4
5 4 4 4 4
22

Name of Students	Marks out of 50	Group No- 02	
		Topic Name-	
Timely submission	05		
Formatting and Report Writing Style	05		
Abstract, Literature Survey, Conclusion	05		
Refereed References	05		
Grammatical correctness in the report	05		
Total	25	19	17

Automatic switching Control for Hybrid Vehicle.

Hable Vidya Kalbhaj Sathi Aditi Abhishek.

4 3 4 4 4 4
4 3 3 4 4 4
4 3 3 3 4 4
17

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18



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
Sharadchandra Pawar College of Engineering &
Technology, someshwarnagar

Record No:-
ACD/R/07

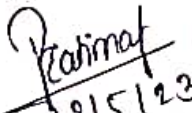
Revision:-

Date:-

Notice

All Students are hereby informed that, it is compulsory to submit following documents/Project of Project Based Learning before 13/05/2023.

- a) Individual project report copy with spiral binding.
- b) Project (Hardware/Software)
- c) Individual Project Diary


21/5/23
PBL Co-Ordinator

Mrs.Shinde P.S


12/5/23
HOD

Mrs.Sorate S.B




Shri. Someshwar Shikshan Prasarak Mandal's
SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING AND
TECHNOLOGY, SOMESHWARNAGAR

DEPARTMENT OF ELECTRICAL ENGINEERING

PBL ASSESSMENT SHEET(TW MARKS)

Sr No	Roll No	Student Name	Marks Out of 100	Final Marks Out of 50(TW)	Student Sign
1	EE-201	Bhosale Rohit Bhanudas	56	28	
2	EE202	Bondare Prerana Dnyaneshwar	93	47 = 45	B Bondare
3	EE203	Borawake Pratiksha Valmik	90	45 = 44	
4	EE204	Chandgude Akash Hanumant	50	25 = 29	
5	EE205	Chaudhari Sahil Subhash	76	38	
6	EE206	Dhaigude Bhushan Baba	50	25	
7	EE207	Dhumal Sunny Narayan	50	25 = 24	
8	EE208	Gavali Ajinkya Ramdas	85	43	
9	EE209	Gawade Rohan Baban	81	41	C Gawade
10	EE210	Gawade Suyog Sanjay	80	40	
11	EE211	Hake Anuja Ganpat	89	45	Hake
12	EE212	Holkar Shivaji Dadasaheb	94	47 = 49	Holkar
13	EE213	Jadhav Jayesh Pramod	56	28	
14	EE214	Jadhav Sakshi Chandrashekhar	91	46 = 45	
15	EE215	Jagtap Prachi Santosh	90	45	P Jagtap
16	EE216	Jagtap Karan Bapurao	80	40	
17	EE217	Jagtap Sayali Kishor	93	47 = 45	S K Jagtap
18	EE218	Jagtap Shreeraj Umesh	79	40	
19	EE219	Kadam Sayali Baban	93	46.5 = 44	
20	EE220	Katara Ganesh Balaso	87	44 =	Katara
21	EE221	Kharat Akshay Mahendra	90	45 = 44	
22	EE222	Khomane Mohini Dattatray	85	43	Khomane
23	EE223	Kunthe Rushikesh Deepak	93	47 = 45	
24	EE224	Kutwal Harshad Balaso	56	28	
25	EE225	Pawar Pratiksha Bhanudas	93	47 = 45	
26	EE226	Pawar Sanjana Vijay	91	46 = 45	Pawar
27	EE227	Pawar Shubham Harishchandra	56	28	
28	EE228	Phadatare Shambhuraj Sharad →	80	40 = 25	
29	EE229	Rasal Shubham Santosh	85	43	
30	EE230	Shinde Aniket Madhukar	50	25	
31	EE231	Shinde Swapnil Parashuram	94	47 = 44	
32	EE232	Shinde Tejal Sunil	91	46 = 43	Shinde
33	EE233	Shirole Tushar Vasant	50	25	
34	EE234	Takale Krishna Rambhau	50	25	
35	EE235	Tekawade Vrushali Somnath	89	45	


PBL Coordinator


HOD of Electrical Department



Shri. Someshwar Shikshan Prasarak Mandal's
**SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING AND
 TECHNOLOGY, SOMESHWARNAGAR**

DEPARTMENT OF ELECTRICAL ENGINEERING

PBL EVALUATION SHEET

Name Of Student	Marks Out of 100	Group No- Topic Name- Fire Alarm.			
		Borawake Pratiksha	Pawar Pratiksha	Kadam Sayali	Jadhav Sakshi
Individual/Team Assessment	(50%)	45%	47%	47%	46
Preception	(5%)	5%	5%	5%	5
Presentation	(10%)	9%	10%	9%	9
Consideration Of Awareness of Environmental-ethics	(5%)	5%	5%	5%	5
Participation/ Application	(5%)	1%	1%	1	1
Final Report	(25%)	25%	25	25	25
Total	100%	90%	93%	93	91

Name Of Student	Marks Out of 100	Group No- Topic Name- Electric Bell.			
		Pawar Sanjona	Hase Anuja	Jagtap Prachi	Tekawade Vrushali.
Individual/Team Assessment	(50%)	45%	44%	45%	44%
Preception	(5%)	5%	5%	5%	5%
Presentation	(10%)	10%	9%	9%	9%
Consideration Of Awareness of Environmental-ethics	(5%)	5%	5%	5%	5%
Participation/ Application	(5%)	1%	1	1	1
Final Report	(25%)	25%	25%	25%	25%
Total		91	89	90	89



Shri. Someshwar Shikshan Prasarak Mandal's
**SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING AND
 TECHNOLOGY, SOMESHWARNAGAR**

DEPARTMENT OF ELECTRICAL ENGINEERING

PBL EVALUATION SHEET

Name Of Student	Marks Out of 100	Group No- Topic Name- Hydroelectricity .			
		Akshay Kharat	Ajinkya Rawali	Rushikesh Kunte	Mohini
Individual/Team Assessment	(50%)	47	44	50	45
Project Inception	(5%)	5	5	5	5
Presentation	(10%)	8	7	8	7
Consideration Of Awareness of Environment- Social-ethics	(5%)	5	5	5	5
Participation/ Publication	(5%)	1	1	1	1
Final Report	(25%)	24	23	24	22
Total	100%	90	85	93	85

Name Of Student	Marks Out of 100	Group No- Topic Name- Wind Turbine Energy Generation.			
		Bondare prerna	Jagtap Sayali	Tejal Shinde	Ganesh Katar
Individual/Team Assessment	(50%)	47	47	46	44
Project Inception	(5%)	5	5	5	5
Presentation	(10%)	10	10	9	8
Consideration Of Awareness of Environment- Social-ethics	(5%)	5	5	5	5
Participation/ Publication	(5%)	1	1	1	1
Final Report	(25%)	25	25	25	24
Total	100%	93	93	91	87



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DEPARTMENT OF ELECTRICAL ENGINEERING

PBL EVALUATION SHEET

Name Of Student	Marks Out of 100	Group No- Topic Name- Single Line Diagram of substation design in outdoor.			
		Swapnil Ghimale	Shreeraj Jagtap	Suyog Gawade	Shubhom Patel.
Individual/Team Assessment	(50%)	48%	41%	42%	45%
Preception	(5%)	5%	4%	4%	6%
Participation	(10%)	10%	8%	8%	9%
Consideration Of Professionalism of Environmental-ethics	(5%)	5%	5%	5%	5%
Self-Reflection/Documentation	(5%)	1%	1%	1%	1%
Final Report	(25%)	25%	20%	20%	20%
Total	100%	94%	79	80	85

Name Of Student	Marks Out of 100	Group No- Topic Name- Smart Home Automation.				
		Holkar Shivaji	Gawade Rohan	Phadtare Shambhuj	Jagtap Karan	Chaudhari Sayan
Individual/Team Assessment	(50%)	48%	43%	42%	20%	40%
Preception	(5%)	5%	3%	3%	5%	2%
Participation	(10%)	10%	9%	9%	5%	8%
Consideration Of Professionalism of Environmental-ethics	(5%)	5%	5%	5%	5%	5%
Self-Reflection/Documentation	(5%)	1%	1%	1%	0%	1%
Final Report	(25%)	25%	20%	20%	15%	20%
Total	100%	94	81	80	50	76



Shri. Someshwar Shikshan Prasarak Mandal's
**SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING AND
 TECHNOLOGY, SOMESHWARNAGAR**

DEPARTMENT OF ELECTRICAL ENGINEERING

PBL EVALUATION SHEET

Name Of Student	Marks Out of 100	Group No- Topic Name-				
		Chondgude Raksh	Dhaigude Bhushan	Dhumal Surya	Shirole Tushar	Takale Krishna
Individual/Team Assignment	(50%)	20%	20	20	20	20
Inception	(5%)	5%	5	5	5	5
Presentation	(10%)	5%	5	5	5	5
Consideration Of Seriousness of Environmental- ethics	(5%)	5%	5	5	5	5
Participation/ Application	(5%)	0	0	0	0	0
Final Report	(25%)	15%	15	15	15	15
Total	100%	50	50	50	50	50

Name Of Student	Marks Out of 100	Group No- Topic Name-				
		Shinde Aniket	Pawar Shubham	Kutwal Harshad	Ghasak Rohit	Jadhav Jayesh
Individual/Team Assignment	(50%)	20	23	20	23	20
Inception	(5%)	5	5	5	5	5
Presentation	(10%)	5	8	8	5	5
Consideration Of Seriousness of Environmental- ethics	(5%)	5	5	5	5	5
Participation/ Application	(5%)	0	0	0	0	0
Final Report	(25%)	15	15	18	18	15
Total	100%	50	56	56	56	50



Shri Someshwar Shikshan Prasarak Mandal's

**Sharadchandra Pawar College of Engineering & Technology,
Someshwarnagar Tal – Baramati, Dist – Pune 412 306**

(Approved by AICTE New Delhi, Recognized by Govt. of Maharashtra & Affiliated
to Savitribai Phule Pune University, Id.no.PU/PN.Engg./445/2012)

+91-2112-283185

* Fax : (02112) 283185

Web :www.secsomeshwar.ac.in

*Email:sspm1972@gmail.com

SEMINAR



SHRI. SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
**Sharadchandra Pawar College of
Engineering and Technology**
Someshwarnagar Tal - Baramati, Dist. - Pune 412 306

Record No: -

Revision: -3

Date: - 1/06/2024



Date-02/08/2024

NOTICE

All TE (Electrical Engineering) students are hereby intending that their Seminar review presentation is arranged on 09-08-2024. Students are expected to present abstract copy and progress presentation till date including following points.

- Abstract of topic
- Introduction of topic
- Literature review

Seminar presentation & Abstract submission is must within specified date. The disciplinary action taken on such candidate by institute will be a sole responsibility of candidate.

Mrs. Shinde P. S
Seminar Co-ordinator

Prof. Gadhave G.G
Head of Department

HEAD OF DEPARTMENT
ELECTRICAL ENGINEERING



SHRI. SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING AND TECHNOLOGY,
SOMESHWARNAGAR

Record No:-ACD/R/08

Revision:-01

Date:-

Department: Electrical Engineering Academic Year: 2023-24 Class: T.E

The Student and Seminar Guide List

The Seminar guides are requested to finalize the seminar topic and submit the same to the Seminar Co-ordinator.

Sr No.	Roll No	Name of Student	Name of Guide
1	EE- 301	Bondre Prerana Dnyaneshwar	Ms.Bhise S.S
2	EE- 302	Borawake Pratiksha Valmik	
3	EE- 303	Dhaigude Bhushan Baba	
4	EE- 304	Gavali Ajinkya Ramdas	
5	EE- 305	Gawade Suyog Sanjay	
6	EE- 306	Hake Anuja Ganpat	
7	EE- 307	Holkar Shivaji Dadasaheb	
8	EE- 308	Jagtap Sayali Kishor	Mrs. Shinde P.S
9	EE- 309	Kadam Sayali Baban	
10	EE-310	Katare Ganesh Balaso	
11	EE- 311	Kharat Akshay Mahendra	
12	EE- 312	Khomane Mohini Dattatray	
13	EE- 313	Kunthe Rushikesh Deepak	Ms.Sakat A.C
14	EE- 314	Pawar Pratiksha Bhanudas	
15	EE- 315	Pawar Sanjana Vijay	
16	EE-316	Shinde Swapnil Parashuram	
17	EE-317	Shinde Tejal Sunil	
18	EE-318	Tekawade Vrushali Somanath	

Mrs.Shinde P.S
Seminar Co-ordinator

Mr.Gadhawe G.G
Head of Department



Department: Electrical Engineering Academic Year: 2023-24 Class: T.E

Seminar topic & Guide list

Roll No	Name of Student	Seminar topic	Name of Guide
EE- 201	Bondre Prerana Dnyaneshwar	Inteligent Mgmt in industries	Ms.Bhise S.S
EE- 202	Borawake Pratiksha Valmik	Hybrid vehicle .	
EE- 203	Dhaigude Bhushan Baba		
EE- 204	Gavali Ajinkya Ramdas		
EE- 205	Gawade Suyog Sanjay		
EE- 206	Hake Anuja Ganpat	Geothermal Power plant	
EE- 207	Holkar Shivaji Dadasaheb	Use of GSM to switch on/off water pump	Mrs. Shinde P.S
EE- 208	Jagtap Sayali Kishor	AI in Electrical	
EE- 209	Kadam Sayali Baban	Gas Insulated Substation	
EE-210	Katare Ganesh Balaso	Walk in charge	
EE- 211	Kharat Akshay Mahendra	Monorail	
EE- 212	Khomane Mohini Dattatray	Hybrid system	
EE- 213	Kunthe Rushikesh Deepak	EV model software design .	Ms.Sakat A.C
EE- 214	Pawar Pratiksha Bhanudas	Solar Electric Vehicle .	
EE- 215	Pawar Sanjana Vijay	Solar Tower Technology	
EE-216	Shinde Swapnil Parashuram		
EE-217	Shinde Tejal Sunil	IR sensor for safety purpose	
EE-218	Tekawade Vrushali Somanath		

Rahma

Seminar Co-ordinator

Sadhave

Head of Department
(Electrical Engineering)



Department: Electrical Engineering

NOTICE

DATE- 21-08-2023


All T.E. (Electrical Engineering) students are hereby informed that, their Seminar review presentation is arranged on **28-08-2023**. Students are expected to present **abstract copy** and **progress presentation** till date including following points.

- Abstract of topic
- Introduction of topic
- Literature review

Seminar presentation & Abstract submission is must within specified date. The disciplinary action taken on such candidate by institute will be a sole responsibility of candidate.

Mrs. Shinde P.S
Seminar Co-ordinator

Mr. Gadhave G.G
Head of Department



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
Sharadchandra Pawar College of Engineering and Technology
Someshwarnagar, Baramati-412306
DEPARTMENT OF ELECTRICAL ENGINEERING
A.Y.-2023-24 (SEM-I)

Date-13/10/2023


NOTICE

All T.E Electrical students are hereby informed that, your **Seminar Final Presentation** will be scheduled on Wednesday, 18/10/2023 at 11.00 Noon Onwards, Be present on time for presentation.

Along With: -

1. PPT's
2. Seminar Report


Seminar Coordinator


H.O.D.
(Electrical Engineering)

SOMESHWAR SHIKSHAN LAYAK
SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING & TECHNOLOGY, SOMESHWARNAGAR
Electrical Engineering Department
Term Work Sheet 2022-23

Class: TE Electrical

Subject: Seminar

SEM-II

Sr. No.	Roll No.	Name of Student	CONTENTS	DELIVERY	VISUAL AIDS	DISCUSSION SESSION	Report	Total
			Out of 10	Out of 10	Out of 10	Out of 10	Out of 10	Out of 10
1	EE-301	BONDRE PRERANA DNYANESHWAR	6	6	6	7	7	32
2	EE-302	BORAWAKE PRATIKSHA VALMIK	8	7	7	—	—	Ab
3	EE-303	DHAIGUDE BHUSHAN BABA	—	—	—	—	—	Ab
4	EE-304	GAVALI AJINKYA RAMDAS	—	—	—	—	—	Ab
5	EE-305	GAWADE SUYOG SANJAY	—	—	—	—	—	Ab
6	EE-306	HAKI ANUJA GANPAT	5	6	6	8	8	34
7	EE-307	HOLKAR SHIVAJI DADASAHEB	8	8	8	8	7	39
8	EE-308	JAGTAP SAYALI KISHOR	8	8	8	8	8	40
9	EE-309	KADAM SAYALI BABAN	7	7	7	7	8	36
10	EE-310	KATARE GANESH BALASO	7	8	7	7	7	36
11	EE-311	KHARAT AKSHAY MAHENDRA	6	6	7	6	6	31
12	EE-312	KHOMANE MOHINI DATTATRAY	—	—	—	—	—	Ab
13	EE-313	KUNTHE RUSHIKESH DEEPAK	8	9	8	8	7	40
14	EE-314	PAWAR PRATIKSHA BHANUDAS	8	8	9	9	9	43
15	EE-315	PAWAR SANJANA VIJAY	8	7	8	9	9	41
16	EE-316	SHINDE SWAPNIL PARASHURAM	9	8	9	9	8	43
17	EE-317	SHINDE TEJAL SUNIL	6	7	7	7	8	35
18	EE-318	TILKAWADE VRUSHALI SOMNATH	7	7	8	8	8	38

Pratima
Seminar Coordinator

Fadlane
HOD



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING AND TECHNOLOGY,
SOMESHWARNAGAR

Record No:-
ACD/R/08

Revision:-01

Date:- 18/10/23

Seminar Evaluation Sheet

Department: Electrical Engineering Academic Year: 2023-24 Class: T.E

Roll No	Name of Student	PRN	Marks	Sign
EE- 301	Bondre Prerana Dnyaneshwar	72266911K	32	<i>Bondre</i>
EE - 302	Borawake Pratiksha Valmik	72266912H	38	<i>(B) Borawake</i>
EE- 303	Dhaigude Bhushan Baba	72266915B	-	<i>Ab</i>
EE- 304	Gavali Ajinkya Ramdas	72266917J	-	<i>Ab</i>
EE- 305	Gawade Suyog Sanjay	72266919E	-	<i>Ab</i>
EE- 306	Hake Anuja Ganpat	72266920J	34	<i>Hake</i>
EE- 307	Holkar Shivaji Dadasaheb	72266922E	39	<i>Holkar</i>
EE- 308	Jagtap Sayali Kishor	72266926H	40	<i>Jagtap</i>
EE- 309	Kadam Sayali Baban	72266927F	36	<i>Kadam</i>
EE- 310	Katare Ganesh Balaso	72266928D	36	<i>Katare</i>
EE- 311	Kharat Akshay Mahendra	72266929B	31	<i>Kharat</i>
EE- 312	Khomane Mohini Dattatray	72266930F	-	<i>Ab</i>
EE- 313	Kunthe Rushikesh Deepak	72266931D	40	<i>Kunthe</i>
EE- 314	Pawar Pratiksha Bhanudas	72266932B	43	<i>Pawar</i>
EE - 315	Pawar Sanjana Vijay	72266933L	41	<i>Pawar</i>
EE - 316	Shinde Swapnil Parashuram	72266938M	43	<i>Shinde</i>
EE - 317	Shinde Tejal Sunil	72266939K	35	<i>Shinde</i>
EE- 318	Tekawade Vrushali Somnath	72266940C	38	<i>Tekawade</i>

Pratima

Seminar Coordinator.

Pardave
H.O.D.

[Electrical Department]



SHRI. SOMESHWAR SUKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING AND TECHNOLOGY,
SOMESHWARNAGAR

Record No:-ACD/R/08
Revision:-01
Date:-

To,
The Head,
Electrical Engineering Department
SPCOE Someshwarnagar
Baramati.

Subject: Regarding Seminar topic Finalization

Respected Sir,

I am Mr./Miss Pawar Sanjana Vijay from TE

Electrical Engineering student of Academic Year 2023-24 is interested in area of

_____ . Want to select seminar topic from following

- ✓ 1. Solar tower Technology.
2. Solar Power generation.
3. Gas-Insulated Substations.

Signature of Student ~~Sipawar~~

Date 25/08/2023

Guide Use Only

Approved Seminar Topic is Solar tower Technology

Panmay
Mrs. Shinde P.S
Seminar Guide

Sarkat
Mrs. Sarkat A.C

Gadhawe
Mr. Gadhawe G.G
H.O.D



SHRI. SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING AND TECHNOLOGY,
SOMESHWARNAGAR

Record No:-ACD/R/08

Revision:-01

Date:-

To,
The Head,
Electrical Engineering Department
SPCOE Someshwarnagar
Baramati.

Subject: Regarding Seminar topic Finalization

Respected Sir,

I am Mr./Miss Shinde Tejal Sunil from TE

Electrical Engineering student of Academic Year 2023²⁴ is interested in area of

. Want to select seminar topic from following

1. IR sensor for safety purpose
2. Automatic meter Reading Technology.
3. Wireless solar mobile charger.

Signature of Student Shinde

Date _____

Approved Seminar Topic is IR sensor for safety purpose

Guide Use Only

Mrs. Sakal A.C
Seminar Guide

Gadhane
Mr. Gadhane G.G
H.O.D



SHRI. SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING AND TECHNOLOGY,
SOMESHWARNAGAR

Record No:-ACD/R/08

Revision:-01

Date:-

To,
The Head,
Electrical Engineering Department
SPCOE Someshwarnagar
Baramati.

Subject: Regarding Seminar topic Finalization


Respected Sir,

I am Mr./Miss Bondre Prexana D. from TE

Electrical Engineering student of Academic Year 2023-24 is interested in area of

_____. Want to select seminar topic from following

1. Residence Energy control system Bas-
-ed on wireless smart socket & IoT.
- ✓ 2. Intelligent management of electrical
system in industries
3. Energy efficient motor.

Signature of Student 

Date _____

Approved Seminar Topic is Intelligent management of
electrical system in industries

Mrs. Bhise S. S.
Seminar Guide


Mr. Gadhave G.G.
H.O.D



Shri Someshwar Shikshan Prasarak Mandal's

**Sharadchandra Pawar College of Engineering & Technology,
Someshwarnagar Tal – Baramati, Dist – Pune 412 306**

(Approved by AICTE New Delhi, Recognized by Govt. of Maharashtra & Affiliated
to Savitribai Phule Pune University, Id.no.PU/PN.Engg./445/2012)

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* Fax : (02112) 283185

Web :www.secsomeshwar.ac.in

*Email:sspm1972@gmail.com

INTERSHIP



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
**Sharadchandra Pawar College of Engineering
and Technology**
Someshwarnagar, Baramati-412306
DEPARTMENT OF ELECTRICAL ENGINEERING
A.Y.-2023-24 (SEM-II)



Date: 15/12/2023

INTERNSHIP NOTICE

All students of the Third-year electrical engineering department are hereby informed that all are undergoing internships at industries, government organizations, small and medium enterprises etc. before starting of sixth same which carries 100 marks as per curriculum. So all students should approach various industries and finalize the same.

All are instructed to meet their respective Internship Guides.

Guide list displayed on the notice board.

Guide Lines for Internship:

• **Duration:**

1. The internship should be started after semester 5 and should be completed before the 15/01/2023. (After that regular classes resume)
2. It should be for at least 4 to 6 weeks.

• **Internship Record Book:**

Students should maintain a record of daily activities completed which may include, field visits, important discussions, observations, project work completed, suggestions received, etc. The record book should be signed every day by the supervisor or in charge where the student is undergoing an internship.

Evaluation and Assessment of Internship:

1. The Evaluation Criteria is as follows:

Internship Record Book	Internship Report	Internal Evaluation	Total
25	25	50	100

P. Shinde
15/12/23
Seminar Coordinator
Prof. P. S. Shinde

G. G. Gadhave
15/12/23
HOD
Prof. G. G. Gadhave
HEAD OF DEPARTMENT
ELECTRICAL ENGINEERING



SHRI. SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF
ENGINEERING AND TECHNOLOGY,
SOMESHWARNAGAR

Record No:-ACD/R/08

Revision:-01

Date:-

Department: Electrical Engineering Academic Year: 2023-24 Class: T.E

Internship Students Guide list

Roll No	Name of Student	Company Name	Name of Guide
EE- 201	Bondre Prerana Dnyaneshwar	Automobile Corporation of Goa Ltd.	Prof Gawade P.D
EE- 202	Borawake Pratiksha Valmik	Indrajeet Power Lines	
EE- 203	Dhaigude Bhushan Baba	ACDC Saideep Buildcon Pvt Ltd.	
EE- 204	Gavali Ajinkya Ramdas	ACDC Saideep Buildcon Pvt Ltd.	
EE- 205	Gawade Suyog Sanjay	Indrajeet power Lines.	
EE- 206	Hake Anuja Ganpat	Indrajeet Power Lines.	
EE- 207	Holkar Shivaji Dadasaheb	Indrajeet power Lines.	
EE- 208	Jagtap Sayali Kishor	Automobile Corporation of Goa Ltd.	
EE- 209	Kadam Sayali Baban	Indrajeet Power Lines.	
EE-210	Katare Ganesh Balaso	Indrajeet power Lines	
EE- 211	Kharat Akshay Mahendra	ACDC Saideep Buildcon Pvt Ltd.	
EE- 212	Khomane Mohini Dattatray		
EE- 213	Kunthe Rushikesh Deepak	ACDC Saideep Buildcon Pvt Ltd.	
EE- 214	Pawar Pratiksha Bhanudas	Indrajeet Power Lines	
EE- 215	Pawar Sanjana Vijay	Indrajeet power Lines.	
EE-216	Shinde Swapnil Parashuram	ACDC Saideep Buildcon Pvt-Ltd.	
EE-217	Shinde Tejal Sunil	Indrajeet Power Lines.	
EE-218	Tekawade Vrushali Somanath	Indrajeet Power Lines	

Pratiksha

Internship Co-ordinator
Prof. Shinde P.S

Shinde
Head of Department
(Electrical Engineering)



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
Sharadchandra Pawar College of Engineering and Technology
Someshwarnagar, Baramati-412306
DEPARTMENT OF ELECTRICAL ENGINEERING
A.Y.-2023-24 (SEM-I)

Date-02/02/2024

NOTICE

All T.E Electrical students are hereby informed that, your **Internship Final Presentation** will be scheduled on Friday, 01/03/2024 at 11.00 Noon Onwards, Be present on time for presentation.

Along With: -

1. PPT's
2. Internship Report (2 Copy)
3. Internship Diary

Pratirof.

Internship Coordinator

Pratirof.

H.O.D.

(Electrical Engineering)

HEAD OF DEPARTMENT
ELECTRICAL ENGINEERING

Internship Submission

No.	Student Name	Report	Diary
1]	Rushikesh Kunthe	Rushikesh	Rushikesh
2]	Pawar Pratiksha	Pawar	Pawar
3]	Pawar Sanjana	Pawar	Pawar
4]	Kadam Sayali	Kadam	Kadam
5]	Borawake Pratiksha	Borawake	Borawake
6]	Hake Anuja	Hake	Hake
7]	Holkar Shivali	SH	SH
8]	Katane Ganesh B	GKatane	GKatane
9]	Bondse parvati	Bondse	Bondse
10]	Tekawade Vrushali	Te	Te
11]	Shinde Swapnil	Swapnil	Swapnil
12]	Kharat Akshay	AK	AK
13]	Gawali Ajinkya	A	A
14]	Shinde Tejal	Shinde	Shinde
15]	Jagtap Sayali	Jagtap	Jagtap
16]	Gawade Sayag		
17]	Dhaigude Bhugan		



SOMESHWAR EDUCATION PRASARAK MANDAL'S
SHARAD CHANDRA PAWAR COLLEGE OF ENGINEERING & TECHNOLOGY, SOMESHWARNAGAR
Electrical Engineering Department
Term Work Sheet 2023-24



Class: TE Electrical

Subject: Internship

SEM-II

Internship Record Book Evaluation

Sr. No.	Roll No.	Name of Student	Proper and timely documented entries	Adequacy and quality of information	Data, observations, discussions recorded	Thought process and recording techniques used	Organization of the information	Total
			Out of 05	Out of 05	Out of 05	Out of 05	Out of 05	Out of 25
1	11-301	BONDRE PRIYANKA DNYANESHWAR	5	5	4	4	4	22
2	11-302	BORAWAKE PRAKSHIA VALMIK	5	5	5	4	4	23
3	11-303	DEWAGE DEEPI SHAN BABA	00	2	2	3	3	10
4	11-304	GAVALI AJINKYA RAMDAS	0	3	3	3	3	12
5	11-305	GAWADE SU YOG SANJAY	0	3	4	3	3	13
6	11-306	HAKI ANUJA GANPAT	5	4	5	4	4	22
7	11-307	HOEKAR SHIVAJI DADASAHEB	5	4	4	4	4	21
8	11-308	JAGTAP SAYALI KISHOR	4	4	4	4	4	20
9	11-309	KADAM SAYALI BHANU	5	4	5	4	4	22
10	11-310	KATARE GANESH RAJASO	5	4	4	4	4	21
11	11-311	KHARVE AKSHAY MAHENDRA	4	4	4	4	4	20
12	11-312	KHOMANI VISHNUNANDA LALITRAY	AB				4	AB
13	11-313	KUNTHI RESHIKI SHI DEEPAK	5	4	5	5	4	23
14	11-314	PAWAR PRAKSHIA BHANUDAS	5	5	4	4	5	23
15	11-315	PAWAR SANJANA VIJAY	5	4	4	5	5	23
16	11-316	SHINDE SWAPNII PARASHURAM	5	5	4	4	5	23
17	11-317	SHINDE TEJAL SUNIL	4	4	4	4	4	20
18	11-318	TEKAWADE VRUNSHALI SOMNATHI	4	4	4	4	4	20

Pratiraj
Internship Coordinator
Prof. P. S. Shinde

G. G. Gadhawe
HOD
Prof. G. G. Gadhawe



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING & TECHNOLOGY,
SOMESHWARNAGAR



Electrical Engineering Department
Term Work Sheet 2023-24

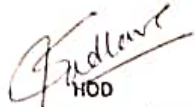
Class: TE Electrical

Internship Evaluation

SEM-II

Sr. No.	Roll No.	Name of Student	Internship Record Book Evaluation	Report	Post Internship Internal Evaluation	Total
			Out of 25	Out of 25	out of 50	Out of 100
1	EE-301	BONDRI PRLRANA DNYANI SHWAR	22	20	40	82
2	EE-302	BORAWAKI PRATIKSHA VALMIK	23	23	46	92
3	EE-303	DHAIGUDE BHUSHAN BABA	10	10	20	40
4	EE-304	GAVALI AJINKYA RAMDAS	12	14	15	42
5	EE-305	GAWADI SUYOG SANJAY	13	15	26	53
6	EE-306	HAKI ANUJA GANPAT	22	21	41	84
7	EE-307	HOLKAR SHIVAJI DADASAHEB	21	21	42	84
8	EE-308	JAGTAP SAYALI KISHOR	20	22	42	84
9	EE-309	KADAM SAYALI BABAN	22	22	37	81
10	EE-310	KATARE GANESH BALASO	21	21	28	70
11	EE-311	KHARAT AKSHAY MAHENDRA	20	19	25	64
12	EE-312	KHOMANE MOHINI DATTATRAY	AB			
13	EE-313	KUNTHI RUSHIKESH DILPAK	23	23	45	91
14	EE-314	PAWAR PRATIKSHA BHANUDAS	23	23	45	92
15	EE-315	PAWAR SANJANA VIJAY	23	23	46	92
16	EE-316	SHINDI SWAPNIL PARASHURAM	23	23	47	93
17	EE-317	SHINDI TJAL SUNIL	20	20	40	80
18	EE-318	TEKAWADE VRUSHALI SOMNATH	20	20	35	75


Internship Coordinator
Prof. P. S. Shinde


HOD
Prof. G. G. Gadhave



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
SHARADCHANDRA PAWAR COLLEGE OF ENGINEERING & TECHNOLOGY, SOMESHWARNAGAR



Electrical Engineering Department

Term Work Sheet 2023-24

Class: EE Electrical

Subject: Internship

SEM-II

Post Internship Internal Evaluation

Sr. No.	Roll No.	Name of Student	Internship Identification and Selection	Problem Studied with objectives and expected outcomes	Consideration of Environment / Social / Ethics / Safety measures / Legal aspects.	Methodology/System/Procedure Q&A	Block-diagram, flow-chart, algorithm, system description Q&A	Final results, discussions, suggestions, comments, etc. Q&A	Presentation and Communication	Total
			Out of 05	Out of 05	Out of 05	Out of 05	Out of 10	Out of 10	Out of 10	Out of 20
1	EE-301	BONDRE PREERANA DNYANESHWAR	5	5	5	5	6	8	6	40
2	EE-302	BORAWAKE PRADIKSHA YALMIK	5	5	5	5	8	9	9	46
3	EE-303	BHARGAV DEBHU SHANUBABA	3	3	3	2	3	3	3	20
4	EE-304	GAYALI ANKYA RAMDAS	3	3	2	2	2	2	2	16
5	EE-305	GAWADI SUNIL NANJAY	4	4	4	3	4	4	3	26
6	EE-306	HAKE ANUJAGANPAT	5	5	5	5	6	8	7	41
7	EE-307	HOKAR SHIVAJI DADASAHEB	5	5	5	5	6	8	8	42
8	EE-308	JAGTAP SAYALI KUSHOR	5	5	5	5	7	8	7	42
9	EE-309	KADAM SAYALI BABAN	5	4	5	5	6	07	05	37
10	EE-310	KATARE GANESH BALASO	4	4	4	4	4	4	4	28
11	EE-311	KHARAT KUNHAJ MAHENDRA	3	4	4	3	4	4	3	25
12	EE-312	KHOTANE MOHINI DALATRAJ	AB							AB
13	EE-313	KUNTE ROHINI MEHLE PAK	5	5	5	5	8	9	8	45
14	EE-314	PAWAR PRADIKSHA BHANUDAS	5	5	5	5	9	9	8	46
15	EE-315	PAWAR SANJANA VIDAY	5	5	5	5	9	8	9	46
16	EE-316	SINDRE SWAPNIL P. RANJIRAM	5	5	5	5	9	8	9	46
17	EE-317	SINDRE TEJAS SUNIL	5	5	5	5	9	8	10	47
18	EE-318	TEKAWADI VRUSHALI MOHINATHI	4	4	4	4	6	7	6	35

P. S. Shinde
Internship Coordinator
Prof. P. S. Shinde

G. G. Gadhave
MOD
Prof. G. G. Gadhave



SOMESHWAR SHIKSHAN PRASARAK MANDAL'S
**Sharadchandra Pawar College of Engineering
and Technology**
Someshwarnagar, Baramati-412306
DEPARTMENT OF ELECTRICAL ENGINEERING



CERTIFICATE

This is to certify that the "Internship report" submitted by
Name: **AJINKYA RAMDAS GAVALI** is work done by his/her and submitted
during A.Y.-2023-24 (SEM-II), in partial fulfillment of the requirements for the
award of the degree of the **Bachelor's Degree in Electrical Engineering**

Prof. P. S. Shinde
Internship Guide

Prof. P. S. Shinde
Internship Co-Ordinator

Prof. G. G. Gadhave
H.O.D
Sharadchandra Pawar College of Engineering and Technology
Someshwarnagar, Baramati-412306
Dr. S. A. Deokar
PRINCIPAL

CERTIFICATION

A.Y.-2023-24 (SEM-II)

SOMESHWAR SHIKSHAN PRASARAK MANDAL'S

Sharadchandra Pawar College of Engineering
and Technology

Someshwarnagar, Baramati-412306

DEPARTMENT OF ELECTRICAL ENGINEERING





CERTIFICATE

This is to certify that the "Internship report" submitted by Name Shinde Tejal Sunil .No.: ___317___) is work done by his/her and submitted during A. Y.- 2023-24 (SEM-II), in partial fulfillment of the requirements for the award of the degree of the Bachelor's Degree in Electrical Engineering

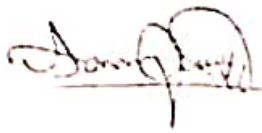

Shinde P.S

Internship Guide Name


Prof. P. S. Shinde
Internship Co-Ordinator


Prof. G. G. Gadhave
H.O.D




Dr. S. A. Deokar
PRINCIPAL



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and Technology**
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Name: AKSHAY MAHENDRA KHARAT is work done by his/her and
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requirements for the award of the degree of the **Bachelor's Degree in
Electrical Engineering**

Prof P. S. Shinde
Internship Guide

Prof. P. S. Shinde
Internship Co-Ordinator

Prof. G. G. Gadhave
H.O.D



Dr. S. A. Deokar
PRINCIPAL

SHARADCHANDRA POWER COLLEGE OF ENGINEERING & TECHNOLOGY
SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE (P. n-412306)

CERTIFICATION



Shri Someshwar Shikshan Prasarak Mandal's

**Sharadchandra Pawar College of Engineering & Technology,
Someshwarnagar Tal – Baramati, Dist – Pune 412 306**

(Approved by AICTE New Delhi, Recognized by Govt. of Maharashtra & Affiliated
to Savitribai Phule Pune University, Id.no.PU/PN.Engg./445/2012)

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CONTINUOUS ASSESSMENT

Roll No.	Name of Candidate	EXP 1				EXP 2				EXP 3				EXP 4				EXP 5				EXP 6				EXP 7				EXP 8				Total	Out of 25				
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D						
EE-301	BONDRE PRERANA DNYANESHWAR	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	64	20
EE-302	BORAWAKE PRATIKSHA VALMIK	2	3	2	3	2	2	2	3	2	3	2	3	2	2	2	2	2	3	2	3	2	3	2	3	2	3	2	3	2	2	2	2	2	2	2	2	76	23
EE-303	DHAGUDE BHUSHAN BABA	0	1	2	1	1	1	1	2	1	1	1	2	1	1	1	1	2	3	1	1	2	1	1	2	1	3	1	1	1	2	2	3	0	2	1	1	46	14
EE-304	GAVALI ADINNYA RAJDAS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	64	20
305	GAWADE SITOG SANJAY	0	1	2	1	1	1	1	2	1	1	1	2	1	1	1	1	2	3	1	1	2	1	1	2	1	3	1	1	1	2	2	3	0	2	1	1	46	14
EE-306	HANE ANUJA GANPAT	2	3	2	3	2	2	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	2	2	2	2	2	2	2	76	23
EE-307	HOLKAR SHIVAJI DADASAHEB	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	64	20
EE-308	JAGTAP SAYALI KISHOR	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	64	20
EE-309	KADAM SAYALI BABAN	2	3	2	3	2	2	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	2	2	2	2	2	2	2	75	22
EE-310	KATARE GANESH BALASO	0	1	2	1	1	1	1	2	1	1	1	2	1	1	1	1	2	3	1	1	2	1	1	2	1	3	1	1	1	2	2	3	0	2	1	1	46	14
EE-311	KHARAT AKSHAY MAHENDRA	1	1	2	1	1	1	1	2	1	1	1	2	1	1	1	1	2	3	1	1	2	1	1	2	1	3	1	1	1	2	2	3	0	2	1	1	47	14
EE-312	KHOKANE MOHINI DATTATRAY	0	1	2	1	1	1	1	2	1	1	1	2	1	1	1	1	2	3	1	1	2	1	1	2	1	3	1	1	1	2	2	3	0	2	1	1	46	14
EE-313	KUNTHE RUSHIKESH DEEPAK	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	64	20
EE-314	PAWAR PRATIKSHA BHANUDAS	2	3	2	3	2	2	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	2	2	2	2	2	2	2	76	23
EE-315	PAWAR SANJANA VIDAY	2	3	2	3	2	2	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	2	2	2	2	2	2	2	76	23
EE-316	SHINDE SWAPNIL PARASHURAM	0	2	1	2	1	2	2	2	1	2	2	2	1	2	2	2	2	3	1	2	2	2	2	2	1	2	2	2	1	2	2	2	1	2	2	2	51	16
EE-317	SHINDE TEJAL SUNIL	2	3	2	3	2	2	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	3	2	2	2	2	2	2	2	2	76	23
EE-318	TEKAWADE VRUSHALI SOMNATH	0	2	1	2	1	2	2	2	1	2	2	2	1	2	2	2	2	3	1	2	2	2	2	2	1	2	2	2	1	2	2	2	1	2	2	2	51	16

A : Regular attendance = 02 marks, B- Timely completion = 03 marks C- Neat and clean writing = 02 marks D-Depth of understanding = 03 marks

303150: Control System Engineering						
Teaching Scheme			Credits		Examination Scheme	
Theory	03	Hr/Week	TH	03	ISE	30 Marks
Practical	02	Hr/Week/batch	TU	01	ESE	70 Marks
Tutorial	01	Hr/Week/batch	PR		OR	25 Marks
					TW	25 Marks
Prerequisite:						
Laplace Transform, Ordinary differential equations.						
Course Objectives: The course aims to:-						
<ul style="list-style-type: none"> To understand basic concepts of the classical control theory. To model physical systems mathematically. To analyze behavior of system in time and frequency domain. To design controller to meet desired specifications. 						
Course Outcomes: At the end of this course, student will be able to						
CO1	Construct mathematical model of Electrical and Mechanical system using differential equations and transfer function and develop analogy between Electrical and Mechanical systems.					
CO2	Determine time response of systems for a given input and perform analysis of first and second order systems using time domain specifications.					
CO3	Investigate closed loop stability of system in s-plane using Routh Hurwitz stability criteria and root locus.					
CO4	Analyze the systems in frequency domain and investigate stability using Nyquist plot and Bode plot					
CO5	Design PID controller for a given plant to meet desired time domain specifications.					
Unit 01	Basics of Control System					07 hrs
Basic concepts of control system, classification of control systems, types of control system: feedback, tracking, regulator system, feed forward system, transfer function, concept of pole and zero, modeling of Electrical and Mechanical systems (Only series linear and rotary motion) using differential equations and transfer function, analogy between electrical and mechanical systems, block diagram algebra, signal flow graph, Mason's gain formula.						
Unit 02	Time domain analysis					06 hrs
Concept of transient and steady state response, standard test signals: step, ramp, parabolic and impulse signal, type and order of control system, time response of first and second order systems to unit impulse, unit step input, time domain specifications of second order systems, derivation of time domain specifications for second-order under-damped system for unit step input, steady state error and static error coefficients.						
Unit 03	Stability analysis and Root Locus					05 hrs
Concept of stability: BIBO, nature of system response for various locations of poles in S-plane. Routh's-Hurwitz criterion. Root Locus: Angle and magnitude condition, Basic properties of root locus. Construction of root locus, Stability analysis using root locus.						
Unit 04	Frequency domain analysis-I					06 hrs
Introduction, Frequency domain specifications, correlation between time and frequency domain specifications, polar Plot, Nyquist plot, stability analysis using Nyquist plot.						
Unit	Frequency domain analysis-II					06 hrs

05																							
Introduction to Bode plot, Asymptotic approximation: sketching of Bode plot, stability analysis using Bode plot.																							
Unit 06	PID controllers and Control system components	06 hrs																					
Basic concept of P, PI, PID controller, design specifications in time domain and frequency domain. design of PID controller by Root Locus, tuning of PID controllers using Ziegler-Nichol Methods Control System Components: Working principle and transfer function of Lag network, lead network, potentiometer, DC servo motors.																							
Test Books:																							
[T1]	I.J. Nagrath, M. Gopal, "Control System Engineering", New Age International Publishers, 6th edition, 2017.																						
[T2]	Katsuhiko Ogata, "Modern control system engineering", Prentice Hall, 2010.																						
[T3]	Nise N. S. "Control Systems Engineering", John Wiley & Sons, Incorporated, 2011																						
[T4]	R. Anandanarajan and P. Ramesh Babu, "Control Systems Engineering", Scitech Publication, 3 rd edition, 2011																						
[T5]	C. D. Johnson, "Process Control Instrumentation Technology, 8 th edition, PHI Learning Pvt. Ltd., 2013																						
Reference Books:																							
[R1]	B. C. Kuo, "Automatic Control System", Wiley India, 8th Edition, 2003.																						
[R2]	Richard C Dorf and Robert H Bishop, "Modern control system", Pearson Education, 12 th edition, 2011.																						
[R3]	D. Roy Choudhary, "Modern Control Engineering", PHI Learning Pvt. Ltd., 2005.																						
[R4]	B. Wayne Bequette, "Process Control: Modeling, Design and Simulation", PHI, 2003.																						
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Unit</th> <th>Text Books</th> <th>Reference Books</th> </tr> </thead> <tbody> <tr> <td>Unit 1</td> <td>T1,T2,T3</td> <td>R1,R2</td> </tr> <tr> <td>Unit 2</td> <td>T1,T2,T3</td> <td>R1,R3</td> </tr> <tr> <td>Unit 3</td> <td>T1,T2,T3</td> <td>R2,R3</td> </tr> <tr> <td>Unit 4</td> <td>T1,T2,T3</td> <td>R1,R3</td> </tr> <tr> <td>Unit 5</td> <td>T1,T2,T3</td> <td>R1,R3</td> </tr> <tr> <td>Unit 6</td> <td>T1,T2,T5</td> <td>R4</td> </tr> </tbody> </table>			Unit	Text Books	Reference Books	Unit 1	T1,T2,T3	R1,R2	Unit 2	T1,T2,T3	R1,R3	Unit 3	T1,T2,T3	R2,R3	Unit 4	T1,T2,T3	R1,R3	Unit 5	T1,T2,T3	R1,R3	Unit 6	T1,T2,T5	R4
Unit	Text Books	Reference Books																					
Unit 1	T1,T2,T3	R1,R2																					
Unit 2	T1,T2,T3	R1,R3																					
Unit 3	T1,T2,T3	R2,R3																					
Unit 4	T1,T2,T3	R1,R3																					
Unit 5	T1,T2,T3	R1,R3																					
Unit 6	T1,T2,T5	R4																					
List of Tutorial:																							
Tutorial (Minimum ten tutorials should be conducted)																							
<ol style="list-style-type: none"> Reduce the given block diagram and determine overall transfer function. Determine transfer function of the system represented by signal flow graph using Mason's gain formula. Determine time domain specifications of given second order systems. Determine static error constants and steady state error for the given systems. Investigate closed loop stability of a given systems using Routh Hurwitz stability criterion. Sketch the root locus of a given systems and comment on stability. Sketch the polar plot of given systems. Sketch the Nyquist plot of a given system, determine stability margins and comment on stability. Sketch the Bode plot of a given systems, determine stability margins and comment on stability. Determine the tuning parameters of PID controller using open loop step response and closed loop ultimate cycle methods of Ziegler and Nichol. Design the PID controller for desired specifications using root locus approach. 																							
List of Experiment																							

A) Minimum five experiments should be conducted.

1. Experimental determination of DC servo motor parameters for mathematical modeling and transfer function
2. Experimental study of time response characteristics of R-L-C second order system. Validate the results using software simulation.
3. Experimental determination of frequency response of Lead compensator.
4. Experimental determination of frequency response of Lag compensator.
5. PID control of level/ Temperature/speed control system.
6. Experimental determination of transfer function of any one physical systems (AC Servomotor/ Two Tank System/ Temperature control/ Level control)
7. Experimental analysis of D.C. Motor Position control System.

B) Minimum three experiments should be conducted (perform using software)

1. Stability analysis using a) Bode plot, b) Root locus and c) Nyquist plot.
2. Effect of P, PI and PID controllers on time response of second order system.
3. Analysis of closed loop DC position control system using PID controller.
4. Effect of addition of pole-zero on root locus of second order system.
5. Effect of addition of dominant and non-dominant poles on step response of second order system.
6. PID controller for speed/position control of DC servomotor.

Guidelines for Instructor's Manual:

Instructor's Manual should contain following related to every experiment –

- Theory related to the experiment
- Apparatus with their detailed specifications.
- Connection diagram /circuit diagram
- Basic MATLAB instructions for control system/ Simulink basics
- Observation table/ Expected simulation results
- Sample calculations for one/two reading
- Result table

Guidelines for Student's Lab Journal

The Student's Lab Journal should contain following related to every experiment –

- Theory related to the experiment
- Apparatus with their detailed specifications.
- Connection diagram /circuit diagram/Simulink diagram/MATLAB program
- Observation table/ simulation results
- Sample calculations for one/two reading
- Result table, Conclusion
- Software program and result (if applicable)
- Few short questions related to the experiment.

Guidelines for Laboratory conduction

- Assessment must be based on understanding of theory, attentiveness during practical session.
- Assessment should be done how efficiently student is able to perform experiment/simulation and get the results. Understanding fundamentals and objective of experiment, timely submission of journal