#### Shantilal Shah Engineering College, Bhavnagar

## **Electrical Engineering Department**

## **Subject Evaluation Scheme**

Name of the subject (code):PROFESSIONAL ETHICS (3150709)

Semester/Branch: B.E. 5<sup>th</sup> Semester, Electrical Engineering;

Name of Concerned Department: Electrical engineering

Name of faculty member: Prof. M. K. Bhatt

## GTU Scheme for the subject:

Teaching Scheme			Credits	Examinati	on Marks			
		Š		Theory Ma		ks Practical Marks		Total
L	Т	P	С	ESE	PA	ESE	PA	Marks
		a.		(E)	(M)	Viva (V)	(1)	
03	00	00	03	70,	30	00	00	100

Course (M)

marks 30

1 1 1 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PAT
6
6
6
6 .
6
30 marks

**Evaluation Plan for PA Component: Total** 

Assessment Type	Attainmen	t Levels
	Level 1	60% of students scoring more than 50% marks in

		internal assessment tools
Internal Assessment	Level 2	70% of students scoring more than 50% marks in internal assessment tools
	Level 3	80% of students scoring more than 50% marks in internal assessment tools

In the test of PA (M) component, if the student obtains less than 12 marks out of 30, subsequently he/she is supposed to appear for a remedial test and having cleared the remedial test he/she is eligible to get 12 marks.

Signature of the faculty members:

(i) Prof M K Bhatt

(course coordinator)

Prof & HOD (Electrical)

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## Shantilal Shah Engineering College, Bhavnagar

## . Electrical Engineering Department

## **Subject Evaluation Scheme**

Name of the subject (code):Industrial Electrical Systems (3170920) (professional Elective course)

Semester/Branch: B.E. 7<sup>th</sup> Semester, Electrical Engineering;

Name of Concerned Department: Electrical engineering

Name of faculty member:(i)Prof. M. K. Bhatt (ii) Prof J B Sarvaiya

## GTU Scheme for the subject:

Teachi	Teaching Scheme		Credits	Examina	tion Marks			
		· 1		Theory N	Marks	Practical N	<b>Marks</b>	Total
ι	Т	p ·	С	ESE	PA	ESE	PA	Marks
		· · · .	= -1	(E)	(M)	Viva (V)	(1)	-
03	00	00	03	70	30	00	00	100

→ Course (M) marks 30

1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	ge e
Marks	PAT
CO1	8
CO2	8
CO3	6
CO4	8
Total	30 marks

Evaluation Plan for PA

Component: Total

Assessment Type	Attainmen	t Levels
- 2 - 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Level 1	60% of students scoring more than 50% marks in internal assessment tools

nternal Assessment	Level 2	70% of students scoring more than 50% marks in internal assessment tools
	Level 3	80% of students scoring more than 50% marks in internal assessment tools

In the test of PA (M) component, if the student obtains less than 12 marks out of 30, subsequently he/she is supposed to appear for a remedial test and having cleared the remedial test he/she is eligible to get 12 marks.

Signature of the faculty members:

(I)Prof M K Bhatt

(course coordinator)

(ii) Prof J B Sarvaiya

Prof & HOD (Electrical)

# Shantilal Shah Engineering College – Bhavnagar

# Department of Electrical Engineering

# Subject Evaluation Scheme (Internal)

Branch: Electrical Semester: 1st

Division:

Academic Year: 2022-23

Faculty coordinator: Prof. S. K. Patel Subject: Basic Electrical Engineering

Subject code: 3110005

## Teaching and Examination Scheme:

Teaching Scheme		Credits	Examin ation Marks		****	Total Marks		
1	dr b	·	Theory Marks		Practical Marks		1	
				ESE (E)	PA (M)	ESE (V)	PA (1)	
	-		4	70	30	30	20	150

# Course Evaluation Plan for PA (M) Theory Component: Total marks 30

PAT will be conducted during the semester. Distribution of marks nearly will be as per below:

COs	Marks (PAT)	Marks (Assignments)
CO1	7	0
CO2	7	0
CO3	0	5
CO4	6	0
C05	0	5

**Note:** In PA component, for all the students it is mandatory to pass PAT exam. If the student obtains less than 12 marks out of 30 in PAT, subsequently he/she is supposed appear for a RPAT exam and after clearing the RPAT he/she is eligible to get 12 marks even though the student has obtained marks more than 12 in RPAT.

CO3 and CO5 will be attained by assignments given to students.

## Course Evaluation Plan for PA (1) Practical Component: Total marks 20

A Lab Manual to be submitted by the student at the end of SEM. In this Lab Manual student has to perform task in a group/individual and total max. Mark is 20.

COs	Lab Manual submission
CO1	10
CO2	6
C03	0
CO4	2
CO5	2

Assessment Type	Attainmen	t Level
	Level 1	50% of students scoring more than 50 % mark in internal assessment tools.
Internal Assessment	Level 2	60% of students scoring more than 50 % mark in internal assessment tools.
	Level 3	65% of students scoring more than 50 % mark in
	1	internal assessment tools.

Signature of the faculty members:

TBM - Mill

Prof. & HOD

(Electrical)

Name of the subject (code): Control System Theory (3130905) Semester/Branch: B.E. 3<sup>rd</sup> Semester, Electrical Engineering

Name of Concerned Department: Electrical Name of faculty member/s: (i) B.N.Vaidya

→ GTU Scheme for the subject:

the state of the s	Teaching Scheme		Credits		Examination Marks			
10	reacting scheme		Theory Marks		Practical Marks		Total	
L	Т	р	С	ESE (E)	PA (M)	ESE Viva (V)	PA (I)	Marks
03		02	04	70	30	30	20	150

→ Course Evaluation Plan for PA (M) Component: Total marks 30

Taurio.	Trialition triality con		
	Marks	PAT	ALA
	CO1		
	CO2	20	
	CO3		
	CO4		
	CO5		10

→ Course Evaluation Plan for PA (I) and ESE(V)Component: Total marks 20+30=50

	PA(I) 20 marks	ESE(V)
Marks	LAB Assignments	Viva
CO1		
CO2		
CO3	20	30
CO4		
CO5		

Assessment Type		Attainment Levels						
	Level 1	60% of students scoring more than 50% marks in						
	200012	internal assessment tools						
Internal Assessment	Level 2	70% of students scoring more than 50% marks in						
		internal assessment tools						
Ī		75% of students scoring more than 50% marks in						
	Level 3	internal assessment tools						

In the test of PA (M) component, if the student obtains less than 8 marks out of 20, subsequently he/she is supposed to appear for an additional test and having cleared that test he/she is eligible to get 8 marks for PA(M) component. ALA assignments are to be submitted for qualifying for remaining 10 marks and final marks out of 30 will be displayed.

Signature of the faculty members:

B.N. ∀aidya

Prof & HOD (Electrical)

## Shantilal Shah Engineering College, Bhavnagar Electrical Engineering Department

## **Subject Evaluation Scheme**

Name of the subject (subject code): Analog & Digital Electronics (3130907)

Semester / Branch: B.E. 3rd Semester, Electrical Engineering

Name of Concerned Department: Electrical

Name of Faculty Member: T. B. Maniar, S. K. Patel

GTU Scheme for the subject:

To	eaching Sche	me	Credits		Examination Marks			
				Theory	Marks	Practica	l Marks	Marks
L	T	P	C	ESE (E)	PA (M)	ESE	PA	
						VIVA (V)	(1)	
04	00	02	05	70	30	30	20	150

Course Evaluation Plan for PA (M) Component: Total Marks 30(20Marks PAT + 10 Marks Assignments):

	PAT	Assignments
CO1	20	
CO3		
CO2		10
CO4		

Course Evaluation Plan for PA (I) and ESE (V) Component: Total Marks 30\*+20 = 50

	PA (I) 20 Marks	ESE (V) 30 Marks
	LAB Assignments	Viva
CO1		
CO2		
CO3	20	30
CO4		

Assessment Type	Attainment Levels			
Internal	Level 1	60% of students scoring more than 50% marks		
Assessment		in assessment tools		
	Level 2	70% of students scoring more than 50% marks		
		in assessment tools		
	Level 3	75% of students scoring more than 50% marks		
		in assessment tools		

In the test of PA (M) component, if the student obtains less than 8 marks out of 20, subsequently he/she is supposed to appear for an additional test and having cleared that test, he/she is eligible to get 8 marks for PA (M) component. Assignments are to be submitted for qualifying for remaining 10 marks and final marks out of 30 will be displayed.

Signature of Faculty Members:

1. T. B. Maniar

2. S. K. Patel

Prof. & Head (Electrical)

Name of the subject (code): Electrical Circuit Analysis (3130906)

Semester/Branch: 3rd Electrical

Name of Concerned Department: Electrical

Name of faculty member/s: (i) Prof. A K Dhandhia (ii) Prof. A M Upadhyay (iii) Prof. J B Sarvaiya

GTU Scheme for the subject:

	Teaching Scheme Credits			Examination Marks				
1			:	Theory	Marks	Practical	Marks	Total
L	Т	ТР	c -	ESE (E)	PA (M)	ESĘ Viva (V)	PA (I)	Marks
03	01	02	05	70	30	30	20	150

Course Evaluation Plan for PA (M) Component: Total marks 30

Marks	PAT	Assignment 1	Assignment 2
CO1	7		
CO2	7	,	
CO3		5	
CO4			. 5
COS	6		

Course Evaluation Plan for PA (I) Component: Total marks 20

Marks	Tut 1	Tut 2	Tut 3	Tut 4	Tut 5	Tut 6	Tut 7	Tut 8	Tut 9	Tut 10
CO1	1	1	2							
CO2						4				
CO3									2	2
CO4							2	2		
CO5				2 -	2				11	

Assessment Methods		Attainment Levels
	Level 1	60% of students scoring more than 50% marks in internal assessment tools
Internal Assessment	Level 2	70% of students scoring more than 50% marks in internal assessment tools
	Level 3	80% of students scoring more than 50% marks in internal assessment tools

In the test of PA (M) component, if the student obtains less than 8 marks out of 20, subsequently he/she is supposed to appear for a remedial test and having cleared the remedial test he/she is eligible to get 8 marks. Two assignments each of 5 marks are also to be submitted and final marks out of 30 will be the sum of (i) marks obtained in the test or remedial test whichever the case is and (ii) those of two assignments.

Signature of the faculty members: (i) Prof. A K Dhandhia (ii) Prof. A M Upadhyay (iii) Prof. J B Sarvaiya

# Shantilal Shah Engineering College, Bhavnagar Electrical Engineering Department

Subject Evaluation Scheme

Name of the subject (code): Contributor Personality Development Program (3150004)

Semester/Branch: B.E. 5th Semester (UG), Electrical Engineering

Name of Concerned Department: Electrical

Name of faculty member/s: (i) Prof A A Rathod (ii) Prof. M. D. Solanki

→ GTU Scheme for the subject:

Teach	Teaching Scheme   Credits		Credits	Examination Marks				
				Theory Marks		Practical Marks		Total Marks
L T P	C	ESE (E)	ESE (E) PA (M)		PA(I)	Maire		
2	0	0	2	70	30	30	20	150

# → Course Evaluation Plan for PA (M) Theory Component: Total marks 30

This component is divided in to two parts.

(1) PAT Exam: There will be PAT exam of 20 marks.

(2) Assignment: There will be two assignments for 5 marks each.

	PAT (out of 20 Marks)	Assignment (out of 10 Marks)
CO1	5	-
CO2	5	
CO3	5	-
CO4	5	-
CO5	-	5
CO6	-	5

In the test of PA (M) component, for all the students it is mandatory to pass PAT/RPAT exam. If the student obtains less than 8 marks out of 20 in PAT exam, subsequently he/she is supposed to appear for a remedial test RPAT and have to clear the remedial test.

# → Course Evaluation Plan for PA (I) Practical Component: Total marks 20

A Workbook to be submitted at the end of semester. In this workbook student has to perform task in a group or individual and total max. Mark is 20.

Marks	Workbook submission
CO1	3
CO2	3
CO3	3
CO4	3
CO5	4
CO6	4

Assessment Type		Attainment Levels				
	Level 1	60% of students scoring more than 50% marks in internal assessment tools				
Internal Assessment	Level 2	70% of students scoring more than 50% marks in internal assessment tools				
	Level 3	80% of students scoring more than 50% marks in internal assessment tools				

Signature of the faculty members:

Prof. A A Rathod Allow Prof. M.D. Solanki Medul (i) (ii)

(Electrical)

# Shantilal Shah Engineering College, Bhavnagar

## **Electrical Engineering Department** Subject Valuation Scheme (Internal)

Branch

: Electrical Engineering

Semester

: AC Machine Design

Subject Faculty

: Prof. M. U. Ghanchi

Prof. M. K. Bhatt

Division/Batch

: Electrical/All

Subject Code

3170909

Academic Year : 2022-23

## **Teaching and Examination Scheme:**

T	hing Sch	omo	Credits					
rea	ching Sch	eme	Cicaio	Theory Marks		Theory Marks Practical Marks		Total
L	T	Р	С	ESE(E)	PA(M)	ESE(V)	PA(I)	Marks
				70	30	30	20	150
3	0	2	4	70	30			

Examination Scheme for PA (M):

PAT will be conducted during semester. Distribution of marks nearly will be as per below

Thig schicster. District	
Marks	PA(M)
CO1	30
CO2	
CO3	
CO4	

Note: In PA(M) component, for all the students it is mandatory to obtain at least 12 marks in PAT. If the student obtains less than 12 marks in PAT, he/she is supposed to appear for a remedial work. After satisfactory work in remedial work, he/she is eligible to get 12 marks even though the student has obtained marks more than 12 in remedial work.

## Examination Scheme for PA(I):

Valuation will be done on the basis of performance in practical.

1971				Pra	ctical			
Marks>	01	02	03	04	05	06	07	08
	-	- 02	2 1	2		1		1
CO1	-			4		2		2
CO2	-	-			2		2	
CO3					1 2	-	2	$\top$
CO4				1	2			

Assessment Type	Attainment Levels						
	laveld	60% of students scoring more than 50% marks in interna					
	Level 1	assessment tools					
Internal Assessment	Level 2	70% of students scoring more than 50% marks in intern					
		accessment tools					
		80% of students scoring more than 50% marks in intern					
	Level 3	assessment tools					

**Faculties** 

Sign of Faculty

1. Prof. M. U. Ghanchi

(P)(S)

2. Prof. M. K. Bhatt

HOD (Electrical)

Part ....

In this by

Name of the subject: Switch Gear and Protection

Subject Code: 3170908

Semester/Branch: 7th Electrical

Name of Concerned Department: Electrical Name of faculty member/s: (i) Prof A B Parmar

GTU Scheme for the subject: Total marks 30

	Teachir	ng Scheme		Credits	on Marks	ı Marks			
					Theory Marks		Practical Marks		Total
	L	т	P	С	ESE (E)	Aq (M)	ESE Viva (V)	PA (I)	Marks
-	04	00	02	05	70	30	30	20	150

Course Evaluation Plan for PA (M) Component: 20

· J	:		A since and 2
Marks	PAT	Assignment 1	Assignment 2
CO1	7		
CO2	7		
CO3	6	4.	
CO4	()	5	5

Course Evaluation Plan for PA (I) Component: Total marks 20

Marks		Pract 2	Pract 3		Pract 5	Pract 6	Pract 7	Pract 8	Pract 9	Pract 10
CO1			ů:		2	2	2	•	-	
CO2		2	2	2				2	2	
CO3							-	2	2	2
CO4	2									

Assessment Type	Attainment Levels				
Assessment Type	Level 1	60% of students scoring more than 50% marks in internal assessment tools			
Internal Assessment	Level 2	70% of students scoring more than 50% marks in internal assessment tools			
	Level 3	80% of students scoring more than 50% marks in internal assessment tools			

In the test of PA (M) component, if the student obtains less than 8 marks out of 20, subsequently he/she is supposed to appear for a remedial test and having cleared the remedial test he/she is eligible to get 8 marks.

Signature of the HOD

Signature of the faculty

Name of the subject: Power System Operation and Control

Subject Code: 3170919

Semester/Branch: 7th Electrical

Name of Concerned Department: Electrical Name of faculty member: V B Pandya

Academic Year: 2022-23

GTU Scheme for the subject:

. (	GTU S	cheme	for the su	bject:		Munlen		
				Examination Marks				
Teact	ing se	licine	Citation	Theory Marks		Practica	Total	
L	Т	P	С	ESE (E)	PA(M)	PA(V)	PA(I)	Marks
1		0	1	70	30	0	0	100
3	. 0	0_	4	70	DA (M) Com	nonent: Tota	Marks 30	

Course Outcomes Evaluation Plan for PA (M) Component: Total Marks 30

Course Outcomes					
Course Outcomes	PAT	Quiz-1 /Test	Quiz-2 /Assignment-2	Quiz-3 /Assignment-3	
CO1	5				
CO2		5			
	10				
CO3	10		5		
CO4				-5	
CO5	1.5	5	5	. 5	
Total marks	15	3			

- 1. For CO1 and CO3 the Progressive Assessment Test (PAT) will be of total 30 marks and the marks obtained by the students out of 30 will be converted into that out of 15. The students getting less than 12 marks out of 30 in PAT will have to appear for remedial test. Passing the remedial exam will make the student appeared in the remedial test get max. 6 marks out of 15. If the students get less than 6 marks in the remedial test, higher marks obtained from PAT or the remedial test will be considered as out of 15.
- 2. These quiz or test for CO2 may contain questions like multiple choice type / fill in the blank type / answer in brief statement type / numerical / theoretical type.
- 3. Evaluation of CO4 and CO5 will be done by quiz of types as mentioned in point no. 2 or the assignments with questions based on numerical problems and theory.
- Total marks obtained by the students in PA (M) components of 30 marks will be sum of marks obtained in each of COs as mentioned above.

## **CO** Attainment Details

Assessment	Attainment Levels and details
1133033111	Level 1 60% of students scoring more than 50% marks in internal assessment tools Level 2 70% of students scoring more than 50% marks in internal assessment tools Level 3 80% of students scoring more than 50% marks in internal assessment tools

Signature of the faculty

(Course Corresponden)

Signature of the HOD

Name of the subject:

**Smart Grid** 

Subject Code: 3170922

Semester/Branch:

7th Electrical

Name of Concerned Department: Electrical

Name of faculty member/s:

Prof. M. D. Solanki

GTU Scheme for the subject:

Scl	neme fo	r the subj	ect:						T
Γ	Teaching Scheme		Credits		Examinat	Examination Marks			
-	100	Criming Seri	I		Theory	Marks	Practical	Marks	Total
	ι	Т	Р	c	ESE (E)	PA (M)	ESE Viva (V)	PA (I)	Marks
L					70	30	00	00	100
	03	00	00	03	70	30			

→ Course Evaluation Plan for PA (M) Component: Total marks 30

ourse Evaluation Plan to			
Marks	PAT	Assignment 1	Assignment 2
CO1	12		
CO2	8		
CO3		5	5
CO4	_	1	

	- Control of the Cont
	Attainment Levels
	50% of students scoring more than 50% marks in
Level 1	accessment tools
2 - 2	60% of students scoring more than 50% marks in
Level 2	assessment tools
	70% of students scoring more than 50% marks in
Level 3	assessment tools

In the test of PA (M) component, if the student obtains less than 8 marks out of 20, subsequently he/she is supposed to appear for a remedial test and having cleared the remedial test he/she is eligible to get 8 marks. Two assignments each of 5 marks are also to be submitted and final marks out of 30 will be the sum of (i) marks obtained in the test or remedial test whichever the case is and (ii) those of two assignments.

Signature of the faculty members:

Prof & HOD (Electrical)

Name of the subject (code): Industrial Automation (3170925) Semester/Branch: B.E. 7th Semester (UG), Electrical Engineering

Name of Concerned Department: Electrical Engg. (Open electives subject)

Name of faculty member/s: (i) Prof S. K. Patel

→ GTU Scheme for the subject:

	$\rightarrow$ G	TU Scho	eme for	the subject	ct:	m total Maules				
٢	Teaching Scheme Credits				Examination Marks					
-	Teac	ning Sci	CITIC	Greate	Theory	Marks	Practical M	arks	Marks	
	L	T	P	С	ESE (E)	PA (M)	ESE(V)	PA(I)		
						30	30	20	150	
	2	0	2	3	70	30	30			

# ightarrow Course Evaluation Plan for PA (M) Theory Component: Total marks 30

In the test of PA (M) component, for all the students have to appear for PAT/RPAT Theoretical exam.

Marks	PAT
CO1	10
CO2	10
CO3	10
CO4	-

In the test of PA (M) component, for all the students it is mandatory to pass PAT/RPAT exam. If the student obtains less than 12 marks out of 30 in PAT exam, subsequently he/she is supposed to appear for a remedial test RPAT and have to clear the remedial test. He /She is eligible to get 12 marks even though the student has obtained marks more than 12 in RPAT.

# → Course Evaluation Plan for PA (I) Practical Component: Total marks 20

A Lab Manual to be submitted by the student at the end of SEM. In this Lab Manual student has to perform task in a group/individual and total max. Mark is 20.

Marks	Lab Manual submission
CO1	5
CO2	5
CO3	5
CO4	5

A		Attainment Levels
Assessment Type		50% of students scoring more than 50% marks in
	Level 1	I seesement tools
Internal	Level 2	60% of students scoring more than 50% marks in
Assessment		internal assessment tools
1100000	Laval 2	70% of students scoring more than 50% marks in
** 1 3	Level 3	internal assessment tools

## Shantilal Shah Engineering College, Bhavnagar

## **Electrical Engineering Department**

#### **Subject Evaluation Scheme**

Name of the subject (code): Advance Electrical Drive (3170916), elective subject.

Semester/Branch: B.E. 7<sup>th</sup> Semester, Electrical Engineering;

Name of Concerned Department: Electrical engineering

Name of faculty member: Prof. M. K. Bhatt

#### GTU Scheme for the subject:

Teachin	aching Scheme Cre		Credits	Credits Examination Marks				
				Theory Ma	rks	Practical N	Marks	Total
L	Т	Р	С	ESE	PA	ESE	PA	Marks
				(E)	(M)	Viva (V)	(1)	
03	00	02	05	70	30	30	20	150

→ Course Evaluation Plan for PA (M) Component: Total marks 30

Marks	PAT
CO1	8
CO2	8
CO3	8
CO4	6

→ Course Evaluation Plan for PA (I) Component: Total marks 20

				7						
Marks	Exp 1	Exp 2	Exp 3	Exp 4	Exp 5	Exp 6	Exp 7	Exp 8	Exp 9	Exp 10
CO1	2					2		F1 18		
CO2		2	2	10 10			2			
CO3				2	2	=-		2	2	
CO4		77:1				- 12				2

# → Rubrics: Marks obtained in each experiment based on the rubrics criterion will be normalized as per above distribution and mapping of CO.

Criteria	Performance lev	vel			
	Very poor	Poor	Good	Very good	Excellent
	0	2	3	4	5
Purpose of experiments / identify objective	Students cannot able to identify the objective of experiments.	Students can able to name the experiments with little description, but not fully aware with objective.	Student can able to explain the objective with satisfactory explanation.	Student can able to identify the objective with proper justification	Students can able to identify objective with correct justification. Student shows the excellent skill to relate the experiments with real life technical issues.
Understanding of the experimental set up / software tools	Students cannot able to name of the apparatus/ software tool required in the experiments.	Students can able to name the apparatus/software required in the experiments with little description, but not fully aware with setup.	Student can able to explain use of apparatus / software with satisfactory level.	Student can able to use of all apparatus/ software used in experiments with proper justification	Student can able to use of all apparatus/ software used in experiments with suggesting technical alternate arrangement for the experiment.
Analyzing / Conclusion	Students cannot able to conclude objective of experiment.	Students can able to conclude but not fully aware with justification.	Student can able to conclude with satisfactory explanation.	Student can able to conclude with proper justification	Students can able to conclude with correct justification. Student shows the excellent skill to suggest relevant change in conclusion.

Assessment Type	Attainmen	Attainment Levels				
	Level 1	60% of students scoring more than 50% marks in internal assessment tools				
Internal Assessment	Level 2	70% of students scoring more than 50% marks in internal assessment tools				
	Level 3	80% of students scoring more than 50% marks in internal assessment tools				

In the test of PA (M) component, if the student obtains less than 12 marks out of 30, subsequently he/she is supposed to appear for a remedial test and having cleared the remedial test he/she is eligible to get 12 marks.

Signature of the faculty members:

(i) Prof M K Bhatt

(course coordinator)

Prof & HOD (Electrical)

Name of the subject: Industrial Electrical System

Subject Code: 3170920

Semester/Branch: VII<sup>th</sup> Electrical

Name of Concerned Department: Electrical Name of faculty member/s: (i) Prof A B Parmar

GTU Scheme for the subject: Total marks 30

Teach	ing Schem	ie -	Credits		<b>Examination Marks</b>				
				Theory	Marks	Practical	Marks	Total	
L	Т	Р	С	ESE	PA	ESE	PA	Marks	
*			:	(E)	(M)	Viva (V)	(1)		
03	00	00	03	70	30	0	0	100	

Course Evaluation Plan for PA (M) Component:

		Assignment
Marks	PAT	·
CO1	9	
CO2	6	
CO3	6	
CO4	9	

Assessment Type		Attainment Levels				
	Level 1	60% of students scoring more than 50% marks in internal assessment tools				
Internal Assessment	Level 2	70% of students scoring more than 50% marks in internal assessment tools				
• •	Level 3	80% of students scoring more than 50% marks in internal assessment tools				

In the test of PA (M) component, if the student obtains less than 12 marks out of 30, subsequently he/she is supposed to appear for a remedial test and having cleared the remedial test he/she is eligible to get 12 marks.

Signature of the faculty

Signature of the HOD

# Shantilal Shah Engineering College, Bhavnagar

# Electrical Engineering Department

Subject Valuation Scheme (Internal)

Branch

Faculty

Electrical Engineering

Semester Subject 5th

: Signals and Systems : Prof. M. U. Ghanchi Division/Batch

Electrical/All

Subject Code

Academie Vear

3150912

## Teaching and Examination Scheme:

Tea	ching Scher	me	Credits	Examinati		ion Marks		
				The	ory Marks	Practical N	Narks	Total
L	Т	P	С	ESE(E)	PA(M)	ESE(V)	PA(I)	Marks
3	0	2	4	70	30	30	26	150

Examination Scheme for PA (M):

PAT will be conducted during remester. Distribution of marks nearly will be as per below.

Marks	PA(M)	Assignment
CO	20	
· CO2		
COl		10
CO4		
Tota!	20	10

Note: In PA(M) component, for all the students it is mandatory to obtain at least 08 marks in PAT. If the student obtains less than 08 marks in PAT, he/she is supposed to appear for a remedial work. After satisfactory work in remedial work, he/she is eligible to get 08 marks even though the student has obtained marks more than 08 in remedial work.

Assignments are to be submitted to qualify the remaining 10 marks. Marks out 30 will be displayed.

## Examination Scheme for PA(I):

Valuation will be done on the basis of performance in practical.

	T				Pra	attical				
Marks>	01	02	03	04	05	06	07	08	09	10
CO1	2	2			-					
CO2						2	2	12	2	
CO3			2	2	2			-		
004										2

Assessment Type	Attainment Levels								
Assessment Type	Level 1	60% of students scoring more than 50% marks in internal assessment tools							
Internal Assessment	L+ rel 2	70% of students scoring more than 50% marks in internal assessment tools							
	Le nel 3	80% of students scoring more than 50% marks in internal assessment tools							

Signature of the Subject Faculty:

(i) Prof. M. U. Ghandhi

Bh

HOD (Biscorical)

# Shantilal Shah Engineering College – Bhavnagar Department of Electrical Engineering Subject Evaluation Scheme (Internal)

Branch: Electrical Semester: 5<sup>th</sup> Division: Electrical

Faculty coordinator: Prof. T. B. Maniar

Subject: Operation Research Subject code: 3151910

## Teaching and Examination Scheme:

Т	Teaching Scheme		Credit		Examina			Total Marks
L	T	P	C	Theory	Marks	Practical	Marks	
				ESE (E)	PA (M)	ESE (V)	PA (I)	
03	0	0	03	70	30	0	0	100

## Course Evaluation Plan for PA (M) Theory Component: Total marks 30

PAT will be conducted during the semester. Distribution of marks nearly will be as per below:

COs	Marks (PAT)	Marks (Assignments)
CO1	8	1
CO2	8	1
CO3	4	1
CO4	-	4
CO5	-	3

**Note:** In PA component, for all the students it is mandatory to pass PAT exam. If the student obtains less than 8 marks out of 20 in PAT, subsequently he/she is supposed appear for a RPAT exam and after clearing the RPAT he/she is eligible to get 8 marks even though the student has obtained marks more than 8 in RPAT.

Assessment Type	Attainment Level				
	Level 1	50 % of students scoring more than 50 % mark in internal assessment tools.			
Internal Assessment	Level 2	60 % of students scoring more than 50 % mark in internal assessment tools.			
	Level 3	70 % of students scoring more than 50 % mark in internal assessment tools.			

Signature of the faculty members:

Prof. & HOD

(Electrical)

Name of the subject (code): Electrical Machine II (3150910)

Semester/Branch: 5th Electrical

Name of Concerned Department: Electrical

Name of faculty member/s: (i) Prof. A K Dhandhia (ii) Prof. M U Ghanchi

GTU Scheme for the subject:

Te	aching Sche	me	Credits	redits Examination Marks					
				Theory	Marks	Practical	Marks	Total	
L	T	p	6 8	ESE (E)	PA (M)	ESE Viva (V)	PA (I)	Marks	
04	00	02	05	70	30	30	20	150	

Course Evaluation Plan for PA (M) Component: Total marks 30

Marks	PAT	Assignment 1	Assignment
CO1	10		
CO2		5	
CO3	10		
CO4			5

Course Evaluation Plan for PA (I) Component: Total marks 20

34	126 EASIG	ation ria	HI TOI FACE	Compen	letter 1 ord	1111111110 64	1	1	11		
	Marks	Exp 1	Exp 2	Exp 3	Exp 4	Exp 5	Exp 6	Exp 7	Exp 8	Exp 9	Exp 10
	CO1	2			1				2		-
	CO2		2	2						2	-
I	CO3				2	2	2	2			1
	CO4										4

Assessment Methods		Attainment Levels
	Level 1	60% of students scoring more than 50% marks in internal assessment tools
Internal Assessment	Level 2	70% of students scoring more than 50% marks in internal assessment tools
	Level 3	80% of students scoring more than 50% marks in internal assessment tools

In the test of PA (M) component, if the student obtains less than 8 marks out of 20, subsequently he/she is supposed to appear for a remedial test and having cleared the remedial test he/she is eligible to get 8 marks. Two assignments each of 5 marks are also to be submitted and final marks out of 30 will be the sum of (i) marks obtained in the test or remedial test whichever the case is and (ii) those of two assignments.

Signature of the faculty members: (i) Prof. A K Dhandhia (ii) Prof. M U Ghanchi

course coordinator

Branch : Electrical Engineering

Division/Batch : Electrical/All Semester: 5th Subject Code : 3150001 Subject : DESIGN ENGINEERING 2A Academic Year : 2023-24 Faculty : Prof. M V GOJIYA

Topobing and Examination Cab

Teach	ning Sc	heme	Credits	Examinati					
				The	ory Mar	rks	Practical M	arks	Total
L	Т	P	C	ESE(E)	PA	(M)	ESE Viva (V)	PA (I)	Marks
0	0	2	1	00	00	00	80	20	100

For 5th semester, internal Viva-Voce examination will be conducted at the end of the semester by a team of three examiners - One internal guide, one inter/own departmental faculty, one industry expert (industry expert may be optional but recommended).

· Two department level panel will be formed for Viva-Voce examination with member of two laboratory faculty and one internal guide (if internal guide other than laboratory faculty.)

#### Evaluation Scheme for PA (I): (20 marks-Given by Internal Guide)

	Reverse Engineering (Selection of Branch specific tittle and detail study of project)	Preparation of canvases/fr ame-work and Prior art search	Preparing Learning Need Matrix (LNM) and Pre design calculation	Dirty Mock- ups/ Fast- prototype / Schematic plan	Continuous Assessment Card	Report
CO1	3					
CO2		5				
CO3			3	3		
CO4					3	3

Assessment Type	Attainment Levels				
Internal Assessment	Level 1	50% of students scoring more than 50%marks in internal assessment tools			
	Level 2	60% of students scoring more than 50% marks in internal assessmenttools			
	Level 3	70% of students scoring more than 50% marks in internal assessmenttools			

Signature of the Subject Faculty:

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# Shantilal Shah Engineering College, Bhavnagar Electrical Engineering Department

Subject Evaluation Scheme

Name of the subject (code): Summer Internship (3170001)

Semester/Branch: B.E. 7th Semester (UG), Electrical Engineering

Name of Concerned Department: Electrical

Name of faculty member/s: (i) Prof M U GHANCHI

→ GTU Scheme for the subject:

Teach	ning Sc	cheme Credits Examination Marks						Total
				Theory	Marks	Practical I	Marks	Marks
L	T	P	C	ESE (E)	PA (M)	ESE(V)	PA(I)	Marks
0	0	0	2	0	0	80	20	100

## Course Evaluation Plan for PA (I) Practical Component: Total marks 20

This PA (I) component evaluated by institute mentor for 20 marks scheme as per below.

Marks	Student regularity during the Internship period and proactiveness / responsiveness towards the given tasks (10 Marks)	Quality of the prepared report (10 Marks)
CO1	4 .	
CO2		5
CO3		5
CO4	3	
CO5	3	

#### **Evaluation Rubrics**

Parameter	Excellent	Very Good	Good	Not up the level of Satisfaction	Obtained
Mark range	10	09-08	07-05	Below 5	Marks
Student regularity during the Internship period and proactiveness/responsiveness towards the given tasks  10 marks					
Quality of the prepared report 10 marks					

Assessment Type		Attainment Levels
Internal Assessment	Level 1	60% of students scoring more than 50% marks in internal assessment tools
	Level 2	70% of students scoring more than 50% marks in internal assessment tools
	Level 3	80% of students scoring more than 50% marks in internal assessment tools

Signature of the faculty members:

Prof. M U GHANCHI

HOD (Electrical)

# Shantilal Shah Engineering College, Bhavnagar Electrical Engineering Department

Subject Evaluation Scheme

Name of the subject (code): High Voltage Engineering (3170917) Semester/Branch: B.E. 7th Semester (UG), Electrical Engineering

Name of Concerned Department: Electrical Engineering

Name of faculty member: Prof M V Gojiya

→ GTU Scheme for the subject:

Teach	ning Sc	heme	Credits	Credits Examination Marks				
	L T P			Theo	ry Marks	Practical l	Total	
L		C	ESE (E)	PA(M)	ESE(V)	PA(I)	Marks	
03	00	02	05	70	30	30	20	150

→ Course Evaluation Plan for PA (M) Component: Total marks 30

	ra (1) component. Total marks				
	PA(M)	PA(I)			
COs	PAT	Laboratory			
CO1	10	2			
CO2	9	4			
CO3	-	6			
CO4	11	6			
CO5	-	2			

Assessment Type	Attainment Levels			
	Level 1	60% of students scoring more than 50% marks in internal assessment tools		
Internal Assessment	Level 2	70% of students scoring more than 50% marks in internal assessment tools		
	Level 3	80% of students scoring more than 50% marks in internal assessment tools		

In the test of PA (M) component, for all the students it is mandatory to pass PA(M) component. If the student obtains less than 12 marks out of 30 in PAT examination, subsequently he/she is supposed to appear for a remedial test and having cleared the remedial test he/she is eligible to get 12 marks only even though the student has obtained marks more than 12 in RPAT.

Prof. M V Goijya (Course Coordinator) Prof & HOD (Electrical)

# Shantilal Shah Engineering College, Bhavnagar.

**Electrical Engineering Department** 

## Course Evaluation Plan

Name of Subject: Power System-II

Academic Year: 2023-24

Semester/Branch: B.E. Sem-5th (Electrical) Name of Concerned Department: Electrical

Name of Faculty Member(s): Prof. V. B. Pandya and Prof. Dr. A. K. Dhandhia

#### · GTU Scheme for the subject:

Tea	Teaching Scheme Credits				Examination Marks				
			Theory Marks		Practical	Total			
L	T P C ES		ESE (E)	PA(M)	ESE(V) PA(		Marks		
04		02	05	70	30	30	20 .		

#### Course Outcome (Theory):

Sr. No.	CO Statement	Marks % Weightage
	Prepare the model of transmission line, generator and transformer of power system for single line diagram representation and per unit quantity calculation.	15
2	Evaluate performance of short, medium and long transmission lines.	25
3.	Analyze symmetrical and unsymmetrical faults in power system.	40
4.	Describe various aspects of over-voltages and corona in power transmission.	12
5.	Describe travelling wave and transients in power system.	

## Course Evaluation Plan for PA (M) Component: Total marks 30

Theory Course - Outcome	MID/PAT Marks	(A) MID/PAT weighted marks	(B) Assignments weighted marks	(C) Total (A)+(B)
CO-1	08	3.5	1.0	4.5
CO-2	10	6.0	1.5	7.5
CO-3	12	9.5	2.5	12 '
CO-4		***	3.5	3.5
CO-5			2.5	,2.5

## Course Evaluation Plan for PA (I) Component: Total marks 20

Course				Weightage Marks of Laboratory Experiments®						
Outcome	1	2	3	4	5	6	7	8 ,	9	10
CO-1	2									
CO-2		3	3			- 1				
CO-3							2		2	
CO-4		4						1		
CO-5				1				1		

@ In lab manual having rubric., each experiment will be assessed and given marks out of 20 marks. The marks obtained in each experiment will be converted as per above CO weightage marks and finally summed and then scaled to 20 marks for the purpose of calculation of PA (1) marks.

Assessment Type	Attainment Level						
	Level I						
Internal Assessment	Level 2						
	Level 3						

Name and Signature of Faculty

1. Prof. V. B. Pandya

2. Prof. Dr. A. K. Dhandhia

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