SSEC/Elect./2021/180 Date - 15/7/2021

Shantilal Shan Engineering College, Bhavnagar Electrical Engineering Department

ODD TERM 2021-22 COURSE COORDINATOR LIST

r No	Sem	Subject Name	Name of faculty – course coordinator
1.	BE1	Basic Electrical Engineering (3110005)	PROF M V GOJIYA
2.		Indian Constitution (3130007)	PROF J B SARVAIYA
3.		Control System Theory(3130905)	PROF B N VAIDYA
4.	BE3	Electrical Circuit Analysis(3130906)	PROF A K DHANDHIA
5.		Analog & Digital Electronics(3130907)	PROF T B MANIAR
6.	4	Design Engg IA	PROF M U GHANCHI
7.		Design Engg - II A (3150001)	PROF A A RATHOD
8.		Contributor Personality Development Prog(3150004	PROF A B PARMAR
9.	BE 5	Professional Ethics(31.50709)	PROF M K BHATT
10.	BE 2	Electrical Machine- II(3150910)	PROF G N SARVAIYA
11.		Power System- II(3150911)	PROF A M UPADHYAY
12.		Signals and Systems(3150912)	PROF M U GHANCHI
13.		Summer Internship (3170001)	PROF M K BHATT
, 14.		Switchgear And Protection(Core-3170908)	PROF A B PARMAR
1 5.		AC Machine Design (PRE III- 3170909)	PROF G N SARVAIYA
16.	BE7	High Voltage Engg (PRE IV-3170917)	PROF M V GOJIYA
17.		Power System Operation & Con (PRE V-317919)	PROF V B PANDYA
18.		Smart Grids (PRE VI-: 170922)	PROF M D SOLANKI
19.	1	Industrial Automation (Open El-3170925)	PROF A A RATHOD
20.		Power System Analyas (3710711) (Core)	PROF V B PANDYA
21.	ME1	Power Electronics Converters & Appl (3710713) (Core)	PROF M D SOLANKI
22.	WILL	Renew. Energy Systems (3710715) (Progr Elective 1)	PROF M V GOJIYA
23.		Al Techniques (3710721) (Progr Elective 2)	PROF J B SARVAIYA
24.	-	Internal Review 1 (3730002)	PROF J B SARVAIYA
25.	ME3	Waste to Energy (3730009) (Open Elective)	PROF M K BHATT
26.		Power System Transients (3730712) (Programme Elective)	PROF A K DHANDHIA



Shantilal Shah Engineering College, Bhavnagar **Electrical Engineering Department**

Subject Evaluation Scheme

Name of the subject (code): Basic Electrical Engineering (3110005) Semester/Branch: B.E. 2nd Semester (UG), Electrical Engineering

Name of Concerned Department: Electrical

Name of faculty members:

(i) Prof M V Gojiya (Course Coordinator) (ii) Prof M U Ghanchi (iii) Prof. A A Rathod

→ GTU Scheme for the subject:

Ton			erre ample	Ct.							
Teaching Scheme		Credits		Exa	aminatio	on Marl	ζS				
,	_			The	ory Mai	rks	Prac	tical M	arks	Total	
L	T	P	C	ESE	PA	(M)	ESI	E(V)	PA(I)	Marks	
03	00			(E)	PA	ALA	ESE	OEP	1 17(1)		
03	00	02	04	70	30	00	30	00	20	150	

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

1 -1 -3	ponene: rotar r		
Marks	PAT		
CO1	07		
CO2	13		
CO3	10		
CO4	-		
CO5	_		
CO5	_		

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 PAT/RPAT exam. 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 even though the student has obtained marks

Signature of the faculty members:

(i)

Prof. A ^ -(ii)

Prof. A A Rathod (iii)

Shantilal Shah Engineering College, Bhavnagar

Electrical Engineering Department

Subject Evaluation Scheme (Internal)

Name of Subject

: Indian Constitution

Subject Code Branch

: 3130007 : Electrica!

Semester

: 3

Name of Faculties

: Prof. J.B.Sarvaiya

GTU Scheme for the subject:-

Teac	Teaching Scheme		Credits		Exami	nation Marks		
7				Theory Marks		Practical Marks		Total
L	Т	ТР	С	ESE (E)	PA(M)	ESE(V)	PA(I)	Marks
2	0	0	0	50	-0	0	0	50

Course Evaluation Plan for PA (M) Component:

Course Outcome	Marks
CO1	5
CO2	15
CO3	10
CO4	10
CO5	10

Signature of Subject coordinator

Signature of HOD

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

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

→ GTU Scheme for the subject:

Teaching Scheme		Credits	Credits Examinati		on Marks	-		
				Theory		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

Tarrier PA (IVI) COM		
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		30
CO3	20	30
CO4		
CO5		

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	75% 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 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,M. Vaidya

Name of the subject (code): Electrical Circuit Analysis (3130906) Semester/Branch: B.E. 3 Semester, Electrical Engineering

Name of Concerned Department: Electrical

Name of faculty member/s: (i) Prof A K Dhandhia (ii) Prof V B Pandya

GTU Scheme for the subject:

Teaching Scheme			Credits	Credits Examination Marks				
L				Theory	Marks	Practical	Marks	Total
	T	þ	c	C ESE	PA	ESE	PA	Marks
				(E)	(M)	Viva (V)	(1)	
03	01	02	05	70	30	30	20	150

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

	(W) Component: 10	Tar marks 50	
Marks	TEST/QUIZ#	ASSIGNMENT-1	ASSIGNMENT-2
CØ1	7		The state of the s
CO2	7		
CO3		5	
C O 4 .			5
CO5	6		

7: As per prevailing situation in future and the instructions proclaimed time to time by Government.

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

			(1) 5511	Ponent	· Total III	101 K3 20	T	T	Τ	T
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	-	Tuts	140	Tut 7	Tuto	Tut 9	Tut 10
CO2			_			1			-	
CO3						-			-	-
CO4							2	1	2	2
CO5				2	2		2	2		

Course Evaluation Plan for Viva (E) Component: Total marks 30

EXP1	EXP2	EXP3	EXP4	EXP 5	EXP 6	FXP 7	FYP 8	EVDO	EVD 10	CVD1	-
3	. 2	2	3	3		2717	LAI 0	LAP 9	EXP 10	EXPII	EXP12
									-		
									3	3	3
								-			
					2	2		· -			
	EXP1 3	EXP1 EXP2 3 2	EXP1 EXP2 EXP3 3 .2 .2	EXP1 EXP2 EXP3 EXP4 3 2 2 3	EXP1 EXP2 EXP3 EXP4 EXP5 3 .2 2 3 3	EXP1 EXP2 EXP3 EXP4 EXP 5 EXP 6 3 .2 2 3 3	EXP1 EXP2 EXP3 EXP4 EXP 5 EXP 6 EXP 7 3 .2 2 3 3	EXP1 EXP2 EXP3 EXP4 EXP5 EXP6 EXP7 EXP8 3 .2 2 3 3	EXP1 EXP2 EXP3 EXP4 EXP5 EXP6 EXP7 EXP8 EXP9 3 .2 2 3 3		EXP1 EXP2 EXP3 EXP4 EXP5 EXP6 EXP7 EXP8 EXP9 EXP10 EXP11 3 .2 2 3

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
the test of DA (Ad)		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/sne is supposed to appear for a remedial work and having completed and submitted the remedial work, he/size is oligible to get 12 marks.

I) Prof & K Dhandhia (ii) Prof ₩ B Pandya

Shantilal Shah Engineering College, Bhavnagar

Electrical Engineering Department Subject Valuation, Scheme

Branch

Electrical Engineering

Semester :

Subject Faculty

: DESIGN ENGINEERING 1 A

Prof. M U Ghanchi

(course coordinator)

Division/Batch

· Electrical/All

Subject Code : 3130008 Academic Year :

2021-22

Teaching and Examination Scheme:

Tea	ching Sch	eme	Credits	Examination Marks					
				Th	eory Mar	ks	Practical M	arks	Total
L	Т	Р	C	ESE(E)	PA	(M)	ESE Viva (V)	PA (I)	Marks
0	0	2	1	00	00	00	80	20	100

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

		Particular								
Marks	Design Thinking Introduction	Empathization Phase	Define phase	Ideation phase	Product Development Phase	Proof of concept	Feedback & Final Report			
CO1	3		2							
CO2		3		2						
CO3					2	5	3			

Evaluation Scheme for ESE (V): (80 marks)

For 3rd 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). Internal examiners/teachers must be trained in Design Thinking through the FDP conducted by University.

Design Engineering 1 A Viva-Voce examination will be taken by laboratory faculty members.

Sr.		Sub-Head	Related
No.	Particular	Weightage	СО
1. Un	derstanding of Design Thinking methodology/ need Importance and understanding of Design Thinking for innovation, entrepreneurship, societal solutions with various learning tools	15	COI
2.	Field Activity/observation and outcome Mind Mapping - Summarization and data analysis Observation Technique (AEIOU Framework)	20	CO2
3. Con	book (Individual completed log book, duly signed by guide ularly) attinuous Assessment Card for Internal Evaluation (Complete and signed by guide regularly)	10	CO3
4.	lerstanding of Canvases/Framework ✓ AEIOU, Mind Mapping ✓ Empathy mapping ✓ Ideation Canvas ✓ Product development Canvas	15	CO2
5. 🗸 I	gn Problem Definition Prior art search/Secondary research Diachronic and Synchronic analysis	10	COl
6. Certi	ort: Compilation of work report (process report), Online ificate generated through DE Portal, Future action plan, stion and Answer, Communication Skill, Attitude	10	C03
	TOTAL	80	

.

Assessment Type		Attainment Levels
	Level 1	50% of students scoring more than 50%marks in internal assessment tools
Internal Assessment	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:

(i) Prof. M U Ghanchi (Course coordinator)

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

GTU Scheme for the subject:

Te	aching Sche	me	Credits	redits Examination Marks				Total	
				Theory	Marks	Practical	Marks	Marks	
L	T	T P C	C	C ESE (E) PA (M		ESE PA			
					, ,	VIVA (V)	(I)		
04	00	02	05	70	30	30	20	150	

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

Marks	Pat
CO1	7.5
CO2	7.5
CO3	7.5
CO4	7.5

^{*} If offline exam is possible than above pattern will follow otherwise online quiz or online assignment will given students.

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

For 20 Marks, submission of lab manual online or offline.

For 30 Marks, Offline viva / MP will be given (As GTU instructed in last semester)

Assessment Type		Attainment Levels
Internal Assessment	Level 1	60% of students scoring more than 50% marks in assessment tools
	Level 2	70% of students scoring more than 50% marks in assessment tools
3	Level 3	80% of students scoring more than 50% marks in 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 remedial test and having cleared the remedial test.

(T. B. Memiar)

Shantilal Shah Engineering College, Bhavnagar

Electrical Engineering Department Subject Valuation Scheme

Branch

Electrical Engineering

Semester

Subject Faculty

DESIGN ENGINEERING 2 A

Division/Batch

Electrical/All

Subject Code

3150001

Academic Year :

2021-22

Prof. J B Sarvaiya

(ii) Prof. A K Dhandhiya

(iii) Prof. A A Rathod

(Course coordinator)

(iv) Prof. MK Bhatt

Teaching and Examination Scheme:

aching S	cheme	Credits		Examination Marks				
			Th	eory Ma	arks	Practical	Marks	Total
Т	Р	С	ESE(E)	PA	N(M)	ESE Viva (V)	PA (I)	Marks
0	2	1	00	00	00	80	20	100
	T 0	ТР	T P C	T P C ESE(E)	Theory Ma	Theory Marks T P C ESE(E) PA(M)	T P C ESE(E) PA(M) ESE Viva (V)	Theory Marks Theory Marks Practical Marks PA(M) ESE Viva (V) PA (I)

Evaluation Scheme for PA (I): (20 marks)

			Particular						
Marks	Orientation with revision of Design Thinking	1	Problem Definition by secondary research, group work and presentation	Ideation phase	Product Development Phase	Proof of concept	Feedback & Final Report		
CO1	2	1	2			1	-		
CO2	1	2		2		1			
ÇO3						2			
403					2	2	3		

Evaluation Scheme for ESE (V): (80 marks)

A Viva-Voce examination will be conducted at the end of the semester by a team of two examiners, one of whom will be an internal Faculty Member, who may have taught the subject. The other will be an external examiner to be appointed by the University. Both examiners must be trained in Design Thinking through the FDP conducted by University.

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		Jub Hous	Related
a. No.	Particular	Weightage	CO
1,	Observation towards Empathy ✓ Field Activity/observation and outcome ✓ Mind Mapping-Summarization and data analysis	20	CO1
	✓ Mind Mapping-Summar Lade ✓ Observation Technique (AEIOU Summary) Log book (Individual completed log book, duly signed by	10	CO2
2.	guide regularly) Design Problem Definition	4.0	C03
·3.	Secondary research/ Prior art search	10	(03
4.	✓ Diachronic and Synchronic analysis Canvases/Frameworks ✓ AEIOU, Mind Mapping ✓ Empathy mapping ✓ Ideation Canvas	15	CO2
	✓ Product development	15	. CO1
5. 6.	Design Problem Definition Compilation of work report (process report), Future	10	C03
J.,	action plan, Question and Answer, Communication Skill. TOTAL	80	

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

Signature of the Subject Faculty:

Prof. J B Sarvaiya
 Prof. A K Dhandhiya
 Prof. A A Rathod (Course coordinator)
 Prof. M K Bhatt

Key

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 B Rathod and Prof M.D. Solanki

→ GTU Scheme for the subject:

->	arn oc	пеше.	IOI THE SU	bjeet.	Examination			
Teac	hing Sc	heme	Credits	•		Total		
	1111/5			Theory	Marks	Practical I		Marks
L	T	Р	C	ESE (E)	PA (M)	ESE(V)	PA(I)	
, ,	0	0	2	70	30	30	20	150

→ 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 are eligible to get 12 marks even though the student has obtained marks more than 12 in RPAT.

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

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

Marks	Workbook submission
CO1	5
CO2	5
• CO3	5
CO4	5

NOTE: All above evolution components will be conducted by offline/ online mode as per government guidelines due to COVID-19.

Secretary and	Attain ment									
	Level	1	fulfill of accelerate according about their in							
nterns!	Level	2	The of an advance according their their of							
	Level	2	MOTO of encyclenary economy means thus in meaning in coloranal assertament house.							

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Name of the subject (code): Professional Ethics (3150709) Semester/Branch: B.E. 5th Semester, Electrical Engineering; Name of Concerned Department: Electrical

Name of faculty member: M K Bhatt

GIU Scheme for the subject:

Tea	ching Sche	eme	Credits		Examinati	on Marks		
				Theory	Marks	Practical	Marks	Total
L	Т	Р	С	ESE (E)	PA (M)	ESE Viva (V)	PA (I)	Total Marks
03	01	02	05	70	30	00	00	100

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

() component rotal marks 50						
Marks	PAT					
CO1	6					
CO2	6					
CO3	6					
CO4	6					
CO5	6					

Assessment Type	Attainment Levels							
	Level 1	60% of students scoring more than 40% marks in						
	resei 1	internal assessment tools						
Internal Assessment	Lovel 2	70% of students scoring more than 40% marks in						
		internal assessment tools						
	Level 3	80% of students scoring more than 40% marks in						
	Level 5	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

Shantilal Shah Engineering College, Bhavnagar

Electrical Engineering Department Subject Valuation Scheme (Internal)

Branch

Electrical Engineering

Semester

Division/Batch

Electrical/Al

Subject

: Electrical Machines - II

Subject Code

3150910

Faculty

: Prof. (Dr.) K. P. Badgujar

Academic

2020-21

Prof. G. N. Sarvaiya

Year

30/09/2021

Term Start

07/06/2021

Term End

(Tentative)

Teaching and Examination Scheme:

Tea	ching Sch	eme	Credits					
Teatiming -				Theory Marks		Practical Marks		Total
L	L T	P	С	ESE(E)	PA(M)	ESE(V)	PA(I)	Marks
	0	2	5	70	30	30	20	150

Examination Scheme for PA (M):

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

Marks	PA(M)
CO1	10
CO2	10
CO3	08
CO4	02

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.

c on the c		Practical								
Marks	0	0 2	0	0	0 5	0 6	0 7	0	0 9	1 0
CO1	2	2								
CO2			2			2	2	2	2	
CO3				2	2		-			_
CO4										2

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

Signature of the Subject Faculty:

K

(i) Prof. (Dr.) K. P. Badgujar (iii) Prof. G. N. Sarvaiya

Shantilal Shah Engineering College, Bhavnagar.

Electrical Engineering Department

Course Evaluation Plan

Name of Subject: Power System-II

Academic Year: 2021-22

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

Name of Faculty Member(s): Prof. A. M. Upadhyay/Prof. V. B. Pandya

GTU Scheme for the subject:

Tea	ching Sc	heme	Credits		Examir	nation Marks		T
	7			Theory	Marks	Practical	Marks	Total
. L	ı	Р	С	ESE (E)	PA(M)	ESE(V)	PA(I)	Marks
04	00	02	05	70	30	30	20	150

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

Theory Course Outcome	Progressive Assessment Test#
CO-1	10
CO-2	10
CO-3	10
CO-4	10
CO-5	

[#] Subject to government/GTU directives issued from time to time.

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

Laboratory	Laboratory Assignments [@]									
Course Outcome	1	2	3	4	5	6	7	8	9	10
CO-1	02	02	02	02	02	02				
CO-2							02	0.0	0.5	
CO-3							02	02	02	02

@ Marks obtained in each laboratory assignment from 1 to 10 will be scaled to 2 marks each for the purpose of calculation of PA(I) marks. (Out of 20 marks).

Assessment Type	Attainment Level				
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 assessment tools			
	Level 3	70% of students scoring more than 50% marks in internal assessment tools			

(AM. Upadhyay) Name and Signature of Faculty

Subject Code: 3150911

SHANTILAL SHAH ENGINEERING COLLEGE, BHAVNAGAR.

ELECTRICAL ENGINEERING DEPARTMENT

ME SEM. II (ELECTRICAL)

PROGRESSIVE/INTERNAL EVALUATION SCHEME FOR ACADEMIC YEAR 2020-21

SUBJECT: (3720727) MODELLING AND ANALYSIS OF ELECTRICAL MACHINES



Prof. A. M. Upadhyay



Shantilal Shah Engineering College, Electrical Engineering Department Bhavnagar

Subject Valuation Scheme (Internal)

Semester Electrical Engineering

Subject

Prof. M. U. Ghanchi Signals and Systems

> Division/Batch Electrical/All 3150912

Subject Code Academic Year 2021-22

Teaching and Examination Scheme:

	ω	,	_		Tea
	0		-	6	eaching Schom
•	3		ט		
U	,	•	,	Credits	
70		ESE(E)	7		
30	frank	PA(M)	Theory Marks	Examinat	
30	-5-(4)	ESE(V)	Practical Marks	Examination Marks	
20	Chr.	PA(II)	rks		
150		Marks	Total		

Examination Scheme for PA (M):

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

Total	C04	C03	C02	C01	Marks	
30			18	12	PA(M)	

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

Examination Scheme for PA(I):

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

	CO4	C03	C02	CO1	Marks>	
	,-			2	21	
				2	02	
			2		03	
			2		24	
			2		05 06	Prac
			2		1	Practical
	*		2		07	-
		2			80	Ü
1		2		7	9	
	2				10	

			internal Assessment	Assessment Type
revel 2		Level 2	Level 1	
assessment tools	70% of stildents social and the control of the cont	60% of students scoring more than 50% marks in internal	assessment tools	Attainment Levels

Signature of the Subject Faculty:

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Prof. Maqbul U. Ghanchi (course co-ordinator)

Name of the subject (code): Summer Internship(3170001)
Semester/Branch: B.E. 7th Semester, Electrical Engineering;
Name of Concerned Department: Electrical
Name of faculty member: M K Bhatt

GTU Scheme for the subject:

Tea
Teaching Schom

Total	Viva	Relevance	Presentation	Report	Particulars
20	5	5	5	ъ	Marks

			ilitelliai Assessment	Decree Access			Assessment Type	
	Level 3		Level 2			Level 1		
internal assessment tools	80% of students scoring more than 40% marks in	internal assessment tools	70% of students scoring more than 40% marks in		internal assessment tools	60% of students scoring more than 40% marks in	Attainment Levels	

Signature of the faculty members:

(i) Prof M K Bhatt

Name of the subject: Switch Gear and Protection

semester/Branch: 7th Electrical Subject Code: 3170908

Name of Concerned Department: Electrical

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

GTU Scheme for the subject: Total marks 30

1		70 70 70
(E)	(E) (M)	
ESE	ESE PA	
Theory M	Theory Marks	Theory Marks Practical Marks
Ex	Examination	Examination Marks

Course Evaluation Plan for PA (M) Component: 30

CO5	CO4	CO3	CO2	CO1	Marks	
0	6	∞	8	·, ∞	PAT	
				6	Assignment 1	
				C	Assignment 2	

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

	t		inte			Α	CO5	CO4	03	C02	C01		Marks Pract	
			Internal Assessment			Assessment Type			2			ы	Pract	
			ssment			nt Type	-				2	2	. Pract	
Lex	2	-	2	-	 			2				ω	Pract	
Level		rever 2 :		LEAC! T	1			2				4	Pract	
assessment tools	80% of st	assessment tools	70% of st	assessment tools	60% of st						2	Ф	Pract	
nt tools	udents sc	nt tools	udents sc	nt tools	udents sc	Attainr				2		6	Pract	
	oring mor		oring mor		oring mor	Attainment Levels				2		7	Pract	
	e than 50		e than 50		e than 50	ls				•	2	∞	Pract	
)% marks)% marks		1% marks		2					9	Pract	
	80% of students scoring more than 50% marks in internal		70% of students scoring more than 50% marks in internal		60% of students scoring more than 50% marks in internal		2					10	Pract	

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

Signature of the faculty

Signature of the HOD

Shantilal Shah Engineering College, Bhavnagar

Electrical Engineering Department Subject Valuation Scheme (Internal)

Branch : Electrical Engineering Semester : 7th

. /

Subject : AC Machine Design Faculty : Prof. B. N. Vaidva

Prof. B. N. Vaidya
Prof. A. B. Parmar

Prof. G. N. Sarvaiya Term Start : 21/06/2021

Division/Batch : Electrical/Al

Subject Code : 3170909 **Academic** : 2021-22

Academic Year

: 12/10/2021

Term End (Tentative)

Teaching and Examination Scheme:

ω	-			Tea	
0	_	4		leaching Scheme	
2	-	,		eme	
4	C			Credits	
70	ESE(E)	구 구			
30	PA(M)	Theory Marks		Evamination Marks	
30	ESE(V)	Practical Marks	CHIMIGHAN	on Marks	
20	PA(I)	rks			
150	Marks	Total			

Examination Scheme for PA (M):

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

CO4	CO3	C02	CO1	Marks	
	09	15	06	PA(M)	The second secon

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

Examination Scheme for PA(I):

Valuation will be done on the basis of performance in practical

CO4	CO3	CO2	62	v	Marks	
				1	0	
				2	0	
				ω	0	
		4	2	4	0	Practical
2	2			5	0	tical
		2	1	6	0	
2	2			7	0	
		2	1	∞	0	

	•	sternal Assessment		Assessment Abe
assessment tools assessment tools	Level 3 70% of students co.:	Level 2 60% of students for:	Level 1 50% of students score	
2. 2.	2.	i.		
internal	internal	internal		•

Faculties

Sign of Faculty

1. Prof. B. N. Vaidya

2. Prof. A. B. Parmar

Prof. G. N. Sarvaiya



A

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 Name of faculty members: (i) Prof M V Gojiya

(ii) Prof (Dr.) Ketan P Badgujar

Teaching Scheme 03 GTU Scheme for the subject: 00 一 02 J Credits 05 0 ESE 70 Œ Theory Marks PA 20 PA(M) Examination Marks ALA 10 ESE 20 Practical Marks ESE(V) OEP 10 PA(I) 20

> Marks Total

150

								· ·
	COS	001		002		COL	Marke	Course Evaluation Plan for PA (M) Component: Total marks 30
	,	6		11	ω	PAT		lan for PA (M) C
		4	2	2	2	Assignment 1		omponent: Tota
1	10	40	50		10	Laboratory		ıl marks 30

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

he/she is supposed to appear for a remedial test and having cleared the remedial PAT/RPAT exam. If the student obtains less than 8 marks out of 20, subsequently marks out of 30 will be the sum of (i) marks obtained in the PAT or RPAT (out of 20) more than 8 in RPAT. An assignment, of 10 marks, test he/she is eligible to get 8 marks even though the student has obtained marks whichever the case is and (ii) those of assignment. In the test of PA (M) component, for all the students it is mandatory to pass is also to be submitted. Final

Signature of the faculty members:

(i) Prof. M V Goijya

(ii) Prof (Dr.) Ketan Badgujar

Name of the subject: Power System Operation and Control

Semester/Branch: 7th Electrical

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

Academic Year: 2021-22

GTU Scheme for the subject:

	Teac	hing Sc	heme	Credits	nolect:				
				Tourts		Examination	on Marks		
	L	T	P	C	Theory	Marks	Practica	l Marks	Total
					ESE (E)	PA(M)	PA(V)	PA(I)	Marks
ĺ	3	0	0	Δ		()	111(1)	(-)	
					70	30	0	0	100

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

Course Outcomes		30 Marks	distribution	
CO1	PAT	Quiz-1	Quiz-2	Quiz-3
CO1	5			
CO2		5		
CO3	10			
CO4			5	
CO5			3	
Total marks	15	5	5	5

NOTE

1. Question paper of Progressive Assessment Test (PAT) will be of total 30 marks and marks obtained by the students out of 30 will be converted into marks out of 15. The students who will be getting less than 12 marks out of 30 will have to appear for remedial test.

2. There will be three quizzes each of 5 marks. The quizzes will be conducted online and contain (i)multiple choice type (ii)fill in the blank type (iii) answer in brief statement etc.

questions/statements.

3. Total marks obtained by the students in PA (M) components of 30 marks will be sum of marks obtained in PAT and three quizzes as defined in above points 1. and 2.

CO Attainment Details

Assessment	Attainment Levels and details
Type 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

Signature of the HOD

Name of the subject:

Semester/Branch:

Smart Grid

7th Electrical

Subject Code: 3170922

Name of Concerned Department: Electrical Name of faculty member/s:

Prof. M. D. Solanki

GTU Scheme for the subject:

Teaching Sci			Credits		Examination Marks			
	-			Theory	Marks	Practical	Marks	Total
		ТР	С	ESE (E)	PA (M)	ESE Viva (V)	PA (I)	Marks
03 00	00	03		(,	, ,		100	

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

	(W) Component:		
Marks	PAT	Assignment 1	Assignment 2
CO1	12	Assignment 1	7.12-0
CO2	8		
CO3		5	
CO4			5

	45
	Attainment Levels
Level 1	50% of students scoring more than 50% marks in assessment tools
Level 2	60% of students scoring more than 50% marks in assessment tools
Level 3	70% 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 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:

Name of the subject (code): Industrial Automation (3170925)

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

Name of Concerned Department: Electrical Engineering
of faculty member (" Electrical Engg. (Open electives subject) Name of faculty member/s: (i) Prof A A Rathod

ightarrow GTU Scheme for the subject

Teach	ning Sc	heme	Credits	rnject:				
credits				Total				
L	T	P	С	Theory	Marks	rks Practical N		Marks
2	0	2		ESE (E)	PA (M)	ESE(V)	· PA(I)	
	0		3	70	30	30	20	150

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 are 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		

NOTE: All above evolution components will be conducted by offline/ online mode as per government guidelines due to COVID-19.

(A.A.Rythod)

Assessment Type	And the second s	Attainment
	the section of the second section of the second	Levels
Internal	Level 1	60% of students scoring more than 50% marks in internal assessment tools
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:

(i) Prof. A A Rathod

1605

Shantilal Shah Engineering College, Bhavnagar Electrical Engineering Department

Subject Evaluation Scheme

Name of faculty member/s: Prof V B Pandya Name of Concerned Department: Electrical Department Name Vision Analysis (37) Semester, Electrical Engineering Semant Concerned Department: Electrical Population (37) Name of the subject (code): POWER SYSTEM ANALYSIS (3710711)

GTU Scheme for the subject:

		_			
	03		-	-	Tea
	01		_	4	Teaching Scheme
	02		70		eme
	05		0		Credits
2	計	(F)	Fee Marks	Theory	
30	<u>(X</u>	PA	Marks	examination Marks	
30	Viva (V)	ESE	Practical Marks	n Marks	
20	Ξ	PA	Marks		
150		Marks	Total		

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

	CO5	4	20	CO3	202		601	Marks	
		00	,	7		ъ	AS:	TEST /O	
				U	7	+	ASSIGNMENT-1		
0	n						ASSIGNMENT-2		

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

CO5	C04	CO3	CO2	CO1	Marks	
				H	EXP1	
				ш	EXP2	
				1	EXP3	
			2		EXP4	
	2				EXP 5	
- 1	2				EXP	
	2				6 EXP 7 E	
	2			æ	XP 8	
				1	EXP 9	
		2			EXP 9 EXP 10	
		2			EXP11	
	0.00		2		EXP12	

Internal Assessment							Assessment Type	
	Level 3		Level 2		Level 1			
	internal assessment tools	80% of students scoring more than 50% marks in	internal assessment tools	70% of students scoring more than 50% marks in	internal assessment tools	60% of students scoring more than 50% marks in	Attainment Levels	
		more		more		more	Sis	
		than		than		than		
		50%		50%		50%		
		marks		marks		marks		
		2.		3		5		

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

Signature of the faculty member

Prof & HOD (Electrical)

Prof V B Pandya

- 1

Name of the subject: Power Electronics Converters and Applications Subject Code: 2710713

Semester/Branch: M.E. Ist Electrical

Name of Concerned Department: Electrical

Name of faculty member/s: M. D. Solanki

GTU Scheme for the subject:

Tea	ching Sch	ieme	Credits		Examination	on Marks		
	_			The	eory Marks	Practical Ma	arks	Total
L	Т	Р	С	ESE (E)	PA(M)	PA(V)	PA(I)	Marks
03	00	02	04	70	30	30	20	150

PA(M) Component Evaluation Scheme:

Subject Name	Midsem
3	
P.E.C. & A.	30

In 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 only.

PA(I) Component Evaluation Scheme:

	10 Márks
Regularity and Simulation	TO Marks
Performance of the student in class and Lab.	10 Marks
shormance of the student in	

Signature of the HOD

Name of the subject (code): Renewable Energy System (3710715) Semester/Branch: 1st Semester (PG), Electrical Engineering Name of Concerned Department: Electrical

Name of faculty members: (i) Prof M V Gojiya

(ii) Prof (Dr.) Ketan P Badgujar

→ GTU Scheme for the subject:

Teac	hing Sch		Credits					
	Teaching Scheme			- E				
	T			Theory	Marks	Practical	Marks	Total
L	1	Р	С	ESE	PA	ESE	PA	Marks
03	00	02		(E)	(M)	Viva (V)	(1)	
Course			03	70	30	30	20	150

Evaluation Plan for PA (M) Component: Total marks 30 Marks PAT Laboratory Assignment 1 CO₁ 4 CO₂ 8 CO₃ 8 10 CO₄ 10 CO₅ 10

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 10 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 10 marks. For the students it is mandatory to pass PAT/RPAT exam. An assignment of 10 marks are also to be submitted. 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. M V Goijya

(ii) Prof (Dr.) Ketar

Name of the subject: AI TECHNIQUE

Subject Code: 3710721

Semester/Branch: ME 1st sem.

Name of Concerned Department; Electrical

Name of faculty member/s: J B Sarvaiya

GTU Scheme for the subject:

Teac	ching Sch	eme	Credits					
						Tatal		
L	Т	P	С	The	eory Marks	Practical Marks		Total Marks
		;		ESE (E)	PA(M)	PA(V)	PA(I)	Marks
03	00	02	04		,,			
			04	70	30	30	20	150

PA(M) Component Evaluation Scheme:

વિષયનું નામ	મીડ સેમ
Interconnected	30
Power System	

આમાં મીડ કોમ્પોનેંટ માં જો વિધ્યાર્થી ગેરહાજર રહે અથવા ફેઇલ થાય તો તેની અનુગામી મૂલ્યાંકન પદ્ધતિ તરીકે રેમેડીઅલ ટેસ્ટની તક આપવામાં આવશે.

PA(I) Component Evaluation Scheme:

્રાજરી તથા નિયમીતતા	10 (માર્ક્સ)
સત્ર દરીમિયન વર્ગખંડ અને લેબ માં વિદ્યાર્થી નું પર્ફોર્મસ	10 (માર્ક્સ)

Signature of the HOD

Name of the subject: WASTE TO ENERGY

Subject Code: 3730009

Semester/Branch: 3rd - ME - Electrical

Name of Concerned Department: Electrical

Name of faculty member/s: (i) PROF M.K. BHATT (i) PROF A A RATHOD

GTU Scheme for the subject:

• Teaching Scheme C			Credits	edits Examination Marks				
I	I T D		T P C	Theory	Marks	Practical Marks		Total
	P	ESE (E)		PA (M)	ESE(V)	PA(I)	Marks	
3	0	0	3	70	30	0	0	100

Course Evaluation Plan for PA (M) Component:

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

	PA: 30 marks
Marks	PAT
CO1	5
CO2	10
CO3	10
CO4	5

Assessment Type	Attainment Levels			
		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 Aggeograph		internal assessment tools		
		80% of students scoring more than 50% marks in		
		internal assessment tools		

In the test of PA (M) component, there will be 30 marks exam. If the student obtains less than 15 marks out of 30, subsequently he/she can appear for a remedial test and having cleared the remedial test he/she is eligible to get 15 marks out of 30.

Signature of the faculty members:

Signature of the HOD

Name of the subject (code): Power System Transients (3370712) semester/Branch: B.E. 3rd Semester (PG), Electrical Engineering

Name of Concerned Department: Electrical

Name of faculty member/s: (i) Dr. Astik Dhandhia

(ii) Prof (Dr.) Ketan P Badgujar

GTU Scheme for the subject:

Teaching Scheme Credits								
		-	Theory Marks		Practical Marks		Total	
L	Т	Р	C	ESE (E)	PA (M)	ESE Viva (V)	PA (I)	Marks
03	00	00	03	70	30	00	00	100

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

dation i lan ioi i /	(III)	
Marks	PAT	Assignment 1
CO1	8	
CO2	8	10
CO3		10
CO4	4	

		-04		
Assess	ment Type	Attainment		
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	

In the test of PA (M) component, if the student obtains less than 10 marks out of 20, succeeding to a supposed to appear for a remedial test and having cleared the remedial test he/sne is eligible of jet 10 marks. For the students it is mandatory to pass PAT/RPAT exam. An assignment of 10 marks is also to be submitted. 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.

5 gnature of the faculty members:

Astik Dhandhia

(ii) Prof (Dr.) Ketan P Badgujar