

SSEC/Elect./2019/298

Date: 24-09-2019

Shantilal Shah Engineering College, Bhavnagar
Electrical Department

SUMMARY

Following is summary or list of internal evaluation schemes of various subjects of UG and PG for currently running odd term of academic year 2019-20 and hardcopies of the same duly signed by course coordinators and HOD are attached herewith.

Sem	Subject Name	Name of faculty – course coordinator
BE1	Basic Electrical Engineering (3110005)	PROF A K DHANDHIA
	Programming for Problem Solving (3110003)	PROF G N SARVAIYA
BE3	Control System Theory(3130905)	PROF B N VAIDYA
	Electrical Circuit Analysis(3130906)	PROF V B PANDYA
	Analog & Digital Electronics(3130907)	PROF T B MANIAR
BE5	Power Electronics - I (2150903)	PROF M K BHATT
	Micropro & Microcon Archi & Interfacing 2150907)	PROF M U GHANCHI
	Electrical Power System - I (2150908)	PROF A M UPADHYAY
	Control System Engineering (2150909)	PROF A A RATHOD
	Elements of Electrical Design (2150904)	PROF J K PARMAR
	Cyber Security (2150002)#	PROF T B MANIAR
BE7	Inter Connected Power System (2170901)	PROF A M UPADHYAY
	Switch Gear & Protection (2170908)	PROF A B PARMAR
	Design of AC Machines (2170909)	PROF G N SARVAIYA
	Industrial Instrumentation (2170913)	PROF M D SOLANKI
ME1	Stress Management & Ergonomics (3730007) (PCE)	DR K P BADGUJAR
	Research Methodology and IPR (3710001)	PROF A B PARMAR
	Power System Analysis (3710711) (Core)	PROF V B PANDYA
	Power Electronics Converters & Appl (3710713) (Core)	PROF M D SOLANKI
	Renewable Energy Systems (3710715) (Progr Elective 1)	PROF M V GOJIYA
	AI Techniques (3710721) (Progr Elective 2)	PROF J B SARVAIYA
ME3	Internal Review 1 (3730004)	DR K P BADGUJAR
	Waste to Energy (3730009) (Open Elective)	DR K P BADGUJAR
	Power System Transients (3730712) (Programme Elective)	PROF M V GOJIYA

[Signature]
HOD (ELECTRICAL)

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

Name of the subject (code): Basic Electrical Engineering (3110005)

Semester/Branch: 1st and 2nd Semester all branches

Name of Concerned Department: Electrical

Name of faculty member/s: Prof Astik K Dhandhia

GTU Scheme for the subject:

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE Viva (V)	PA (I)	
03	00	02	04	70	30	30	20	150

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

Marks	PAT	Assignment 1	Assignment 2	Assignment 3
CO1	7			
CO2	7			
CO3	3		3	
CO4	3			2
CO5		5		

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

Marks	Tut 1	Tut 2	Tut 3	Tut 4	Tut 5
CO1	4				
CO2		4			
CO3			4		
CO4				4	
CO5					4

Assessment	Methods	Attainment Levels
Internal Assessment	Level 1	50% of students scoring more than 40% marks in internal assessment tools
	Level 2	60% of students scoring more than 40% marks in internal assessment tools
	Level 3	65% of students scoring more than 40% 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. Three assignments 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 three assignments.

Signature of the faculty members:

1. Prof A K Dhandhia *AKD*
2. Prof T B Maniar *TBM*
3. Prof M V Gojiya *MVG*
4. Prof. M K Bhatt *MKB*
5. Prof M U Ghanchi *MUG*
6. Prof A A Rathod *AAR*
7. Prof J K Parmar *JKP*

AKD
PROF. & HOD (EE)

Shantlal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

Name of the subject (code): Programming for Problem Solving (3110003)
 Semester/Branch: B.E. 1st Semester, Electrical Engineering
 Name of Concerned Department: Electrical
 Name of faculty member/s: (i) Prof J B Sarvaiya (ii) Prof M U Ghanchi (iii) Prof G N Sarvaiya

→ **GTU Scheme for the subject:**

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE Viva (V)	PA (I)	
03	00	02	04	70	30	30	20	150

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

Marks	PAT
CO1	3
CO2	3
CO3	18
CO4	6




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

Marks	Pr01	Pr02	Pr03	Pr04	Pr05	Pr06	Pr07	Pr08	Pr09	Pr10	Project
CO1	0.5	0.5	0.5	0.5							1
CO2	0.5	0.5	0.5	0.5							1
CO3	0.5	0.5	0.5	0.5	1	1	1	1	1	1	3
CO4											3

Assessment Type	Attainment Levels	
Internal Assessment	Level 1	60% of students scoring more than 40% marks in internal assessment tools
	Level 2	70% of students scoring more than 40% marks in internal assessment tools
	Level 3	80% of students scoring more than 40% 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 J B Sarvaiya (ii) Prof M U Ghanchi (iii) Prof G N Sarvaiya


 Prof & HOD (Electrical)

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

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 C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE Viva (V)	PA (I)	
03	--	02	04	70	30	30	20	150

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

Marks	PAT	ALA
CO1	20	--
CO2		--
CO3		--
CO4	--	10
CO5	--	


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

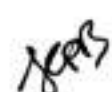
	PA(I) 20 marks	ESE(V)
Marks	LAB Assignments	Viva
CO1	20	30
CO2		
CO3		
CO4		
CO5		

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	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.N.Vaidya


Prof & HOD (Electrical)

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

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

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

Name of Concerned Department: Electrical

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

→ GTU Scheme for the subject:

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE Viva (V)	PA (I)	
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	6		
CO5			5

→ 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					

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

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

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

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

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

Name of Concerned Department: Electrical

Name of faculty member/s: (i) T. B. Maniar

GTU Scheme for the subject:

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE Viva (V)	PA (I)	
04	00	02	05	70	30	30	20	150

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

Marks	PAT
CO1	5
CO2	10
CO3	15
CO4	00

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

Marks	Pract. 1	Pract. 2	Pract. 3	Pract. 4	Pract. 5	Pract. 6	Pract. 7	Pract. 8	Pract. 9	Pract. 10	VIVA
CO1	2	2	2	2							6
CO2					2	2					8
CO3							2	2	2		6
CO4										2	10

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

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.

Signature of the faculty members:

Maniar

Prof

Prof & HOD (Electrical)

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

Name of the subject (code): Power electronics 1(2150903)
 Semester/Branch: B.E. 5th Semester, Electrical Engineering
 Name of Concerned Department: Electrical
 Name of faculty member/s: (i) Prof Munjal Bhatt

→ GTU Scheme for the subject:

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA (M)	ESE Viva (V)	PA (I)		
03	0	02	05	70	30	30	20	150

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

Marks	PAT
CO1	6
CO2	12
CO3	6
CO4	6

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

Marks	Exp1	Exp2	Exp3	Exp4	Exp5	Exp6	Exp7	Exp8	Exp9	Exp10
CO1	1				1					
CO2	1	1		1	1			1		
CO3		1	1					1	1	
CO4			1	1		1	1			
CO5						1	1			1
CO6									1	1

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

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) Munjal K Bhatt


 Prof & HOD (Electrical)

Shantil Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

Name of the subject: MICROPROCESSOR AND MICROCONTROLLER INTERFACING

Subject Code: 2150907

Semester/Branch: 5th Electrical

Name of Concerned Department: Electrical

Name of faculty member/s: (i) Prof Maqbul U Ghanchi (ii) Prof Astik K Dhandhia

GTU Scheme for the subject:

Teaching Scheme			Credits C	Examination Marks					Total Marks	
L	T	P		Theory Marks			Practical Marks			
				ESE (E)	PA(M)	ALA	ESE(V)	OEP		PA (I)
4	0	2	6	70	20	10	20	10	20	150

Course Evaluation Plan for PA (M) Component:

	PA :30 marks
Marks	PAT
CO1	8
CO2	8
CO3	14
CO4	
CO5	


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

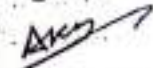
	1	2	3	4	5	6	7	8	9	10	11	12
Marks												
CO1	1											
CO2												
CO3		1	1	1	1	1	1					
CO4								2	2	2		
CO5											3	4

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	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 12 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 12 marks.

Signature of the faculty

(i) 

(ii) 

Signature of the HOD



Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

Name of the subject: Electrical Power System-I

Subject Code: 2150908

Semester/Branch: 5th Electrical

Name of Concerned Department: Electrical

Name of faculty member/s: (i) Prof.A. M. Upadhyay (ii) Prof A B Parmar


GTU Scheme for the subject: Total marks 30

Teaching Scheme			Credits	Examination Marks						Total Marks
L	T	P		Theory Marks			Practical Marks			
				ESE (E)	PA (M)		ESE Viva (V)		PA (I)	
PA	ALA	ESE	OEP							
03	00	00	03	70	20	10	0	0	0	150

Course Evaluation Plan for PA (M) Component:

Marks	PAT	Assignment
CO1	10	
CO2	10	
CO3		10
CO4		
CO5		

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.


A.M. Upadhyay
 Signature of the faculty


 Signature of the HOD

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

Name of the subject: CONTROL SYSTEM ENGINEERING

Subject Code:2150909

Semester/Branch: 5thElectrical

Name of Concerned Department: Electrical

Name of faculty member/s: (i) Prof A A RATHOD (ii) Prof B N VAIDYA

GTU Scheme for the subject:

Teaching Scheme			Credits C	Examination Marks					Total Marks	
L	T	P		Theory Marks		Practical Marks				
				ESE (E)	PA(M)	ESE(V)		PA (I)		
				PA	ALA	ESE	OEP			
4	0	2	6	70	20	10	20	10	20	150

Course Evaluation Plan for PA (M) Component:

Marks	PA : 20 marks		ALA : 10 marks	
	PAT	Assignment 1 (unit 1 to 5)	Assignment 2 (unit 5 to 10)	
CO1	3	2		
CO2	1			
CO3	6	1		
CO4	10	2		
CO5				4
CO6				1

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

Marks	Exp-1	Exp-2	Exp-3			Exp-4	Exp-5	Exp-6	Exp-7
			Problem1	Problem 2	Problem 3				
CO1	1								
CO2			1	1	1				
CO3	1								
CO4		1	1	1	2				
CO5							2	4	
CO6						2			2

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 assessmenttools
	Level 3	80% of students scoring more than 50% marks in internal assessmenttools

In the test of PA (M) component, there will be 30 marks exam and it will be converted into 20 marks. If the student obtains less than 12 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 8 marks out of 20. 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

Signature of the HOD

Shantil Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

Name of the subject: Elements of Electrical Design
 Subject Code: 2150904
 Semester/Branch: 5th Electrical
 Name of Concerned Department: Electrical
 Name of faculty member/s: (i) Prof. J K PARMAR (ii) Prof. G N SARVAIYA

GTU Scheme for the subject: Total marks 30

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE Viva (V)	PA (I)	
02	03	02	04	70	30	30	20	150

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

Marks	PAT
CO1	14
CO2	06
CO3	10
CO4	-

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

Marks	Assignment 1	Assignment 2	Assignment 3	Assignment 4	Assignment 5	Assignment 6
CO1	4	-	-	-	-	-
CO2	-	4	-	-	-	-
CO3	-	-	4	-	2	-
CO4	-	-	-	4	-	2

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 Evaluation Scheme

Name of the subject (code): Cyber Security (2150002)
 Semester/Branch: B.E. 5th Semester, Electrical Engineering
 Name of Concerned Department: Electrical
 Name of faculty member/s: (i) T. B. Maniar
 GTU Scheme for the subject:

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE Viva (V)	PA (I)	
00	01	02	03	00	00	80	20	150

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

Marks	Pract. 1	Pract. 2	Pract. 3	Pract. 4	Pract. 5	Pract. 6	Pract. 7	Pract. 8
CO1	2	2	3	3				
CO2					2	2	4	2

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:

Maniar

T.B. Maniar
 Prof & HOD (Electrical)

Shantilal Shah Engineering College, Bhavnagar.

Electrical Engineering Department

Course Evaluation Plan

Name of Subject: (2170901) Interconnected Power Systems

Subject Code: 2170901

Semester/Branch: B.E. Sem-7th (Electrical)

Name of Concerned Department : Electrical

Name of Faculty Member(s) : Prof. A. M. Upadhyay

• GTU Scheme for the subject:

Teaching Scheme			Credits C	Examination Marks						Total Marks
L	T	P		Theory Marks			Practical Marks			
				ESE (F)	PA(M)		ESE(V)		PA(I)	
					PA	ALA	ESE	OEP		
03	00	02	05	70	20	10	20	10	20	150

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

Course Outcome	Progressive Assessment Test*	Assignment-1*	Assignment-2*	Assignment-3*	Assignment-4*	Mini-Project/Seminar*
CO-1	10	2				
CO-2	10		2			
CO-3				2		
CO-4					2	
CO-5						2

* Passing marks for PAT is 8 out of 20. Students failing to score passing marks will be allowed to appear in Remedial PAT with the passing standard remaining the same. However, students passing in remedial test shall be deemed to have scored only passing marks, i.e. 8 out of 20.

* Marks obtained in assignments 1 to 4 and Mini-Project/Seminar will be scaled to 2 marks each for the purpose of calculation of ALA marks (Out of 10 marks)

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

Course Outcome	Laboratory Assignments									
	1	2	3	4	5	6	7	8	9	10
CO-1	2	2								
CO-2			2	2						
CO-3					2	2				
CO-4							2	2		
CO-5									2	2

* Marks obtained in laboratory assignments 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	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	75% of students scoring more than 50% marks in internal assessment tools.

On
(A. M. Upadhyay)
Name and Signature of Faculty

KPS
Prof. & Head

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

Name of the subject: Switch Gear and Protection

Subject Code: 2170908

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

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA (M)	ESE Viva (V)	PA (I)		
04	00	02	06	70	30	30	20	150

Course Evaluation Plan for PA (M) Component:

Marks	PAT	Assignment 1	Assignment 2
CO1	7		
CO2		5	
CO3	6		
CO4	7		
CO5			5

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

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

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

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


Signature of the HOD

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

Name of the subject (code): Design of AC Machines (2170909)
 Semester/Branch: B.E. 7th Semester, Electrical Engineering
 Name of Concerned Department: Electrical
 Name of faculty member/s: (i) Prof G N Sarvaiya (ii) Prof J K Parmar

→ GTU Scheme for the subject:

Teaching Scheme			Credits C	Examination Marks						Total Marks
L	T	P		Theory Marks			Practical Marks			
				ESE (E)	PA(M)		ESE(V)		PA(I)	
		PA	ALA		ESE	OEP				
03	00	02	05	70	20	10	20	10	20	150

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

Marks	PAT
CO1	30
CO2	
CO3	

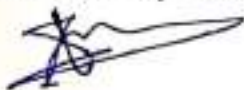
→ Course Evaluation Plan for PA (I) Component: Total marks 20

Marks	Pr01	Pr02	Pr03	Pr04	Pr05	Pr06
CO1			2	2		
CO2	1	1	2	2		
CO3					5	5

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

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 G N Sarvaiya (ii) Prof J K Parmar



Prof & HOD (Electrical)

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

Name of the subject (code): Industrial Instrumentation (2170913)

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

Name of Concerned Department: Electrical

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

→ GTU Scheme for the subject:

Teaching Schema			Credits C	Examination Marks						Total Marks
L	T	P		Theory Marks			Practical Marks			
				ESE (E)	PA(M)		ESE(V)		PA(I)	
				PA	ALA	ESE	OEP			
03	00	02	05	70	20	10	20	10	20	150

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

Marks	PAT	End Sem. Presentation
CO1	5	2
CO2	9	2
CO3	3	2
CO4	3	2
CO5	0	2
CO6	0	

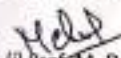
→ Course Evaluation Plan for PA (I) Component: Total marks 20

Marks	Assignment 1	Assignment 2	Assignment 3	Assignment 4	Assignment 5	Mini Project
CO1	1	1				
CO2	1	1	1	1		
CO3		1	1	1	1	
CO4			1	1	1	
CO5				1	1	
CO6						5

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

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. One Presentation is 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) End sem. Presentation.

Signature of the faculty members:

 (i) Prof. M. D. Solanki
 (ii) Prof. Munjal Bhatt


 Prof & HOD (Electrical)

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme (Internal)

Name of Subject : RESEARCH AND IPR
 Subject Code : 3710001
 Branch : Electrical
 Semester : ME Ist
 Name of Faculties : (i) Dr.K.P.Badgajar (ii) Prof. A. B.Parmar

GTU Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA(M)	ESE(V)	PA(I)		
1	0	2	2	0	0	80	20	100

PA (I) Component Evaluation Scheme:

Term work submission (Review paper)	20
-------------------------------------	----


 Signature of Subject coordinator


 Signature of HOD

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme (Internal)

Name of the subject: Power System Analysis
Subject Code: 3170711
Semester/Branch: ME SEMESTER - I (Electrical)
Name of Concerned Department: Electrical
Name of faculty member/s: Prof V B Pandya

GTU Scheme for the subject:

Teaching Scheme				Credits	Examination Marks				Total Marks
L	T	P	C		Theory Marks		Practical Marks		
					ESE (E)	PA(M)	PA(V)	PA(I)	
03	00	02	04		70	30	30	20	150

PA(M) Component Evaluation Scheme:

Subject Name	Progressive Assessment Test (PAT)	Two Assignments
Power System Analysis	20	10

In the PAT 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.

PA(I) Component Evaluation Scheme:

Attendance, punctuality and learning attitude	10
Qualitative learning of practical work & timely submission	10

Signature of the faculty

Signature of the HOD

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme (Internal)

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

Semester/Branch: M.E. 1st Electrical

Name of Concerned Department: Electrical

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

GTU Scheme for the subject:

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA(M)	PA(V)	PA(I)		
03	00	02	04	70	30	30	20	150

PA(M) Component Evaluation Scheme:

વિષયનું નામ	મીડ સેમ
P.E.C. & A.	30

આમાં મીડ કોમ્પોનન્ટ માં તમે વિષયથી કેસ્ટાશનર શો અથવા ફેરલેક વાપ તો તેની અનુગામી મુલ્યાંકન પદ્ધતિ તરીકે રેગેડીઅવ ટેસ્ટની તમ આપવામાં આવશે.

PA(I) Component Evaluation Scheme:

પાઠ્યક્રમ તથા નિયમીતતા અને Simulation	10 (માર્ક્સ)
સેમ ફરીમિશન વર્કબુક અને લેખ માં વિદ્યાર્થી નું પ્રદર્શન	10 (માર્ક્સ)

M. D. Solanki
Signature of the faculty

M. D. Solanki
Signature of the HOD

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

Name of the subject (code): Renewable Energy System (3710715)
Semester/Branch: B.E. 1st Semester (PG), Electrical Engineering
Name of Concerned Department: Electrical
Name of faculty members: (i) Prof M V Gojya (ii) Prof (Dr.) Ketan P Badgujar

→ **GTU Scheme for the subject:**

Teaching Scheme			Credits C	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA (M)	ESE Viva (V)	PA (I)	
03	00	02	03	70	30	30	20	150

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

Marks	PAT	Assignment 1	Laboratory
CO1	4		
CO2	8		
CO3	8	10	
CO4			10
CO5			10

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

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 Gojya


 (ii) Prof (Dr.) Ketan P Badgujar


 Prof & HOD (Electrical)

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme (Internal)

Name of the subject: AI TECHNIQUE Subject Code: 3710721

Semester/Branch: 1ST ME Electrical

Name of Concerned Department: Electrical

Name of faculty member/s: Prof J B Sarvaiya

GTU Scheme for the subject:

Teaching Scheme			Credits C	Examination Marks			Total Marks	
L	T	P		Theory Marks		Practical Marks		
				ESE (E)	PA(M)	PA(V)		PA(I)
03	00	02	04	70	30	30	20	150

PA(M) Component Evaluation Scheme:

વિષયનું નામ	મીડ સેમ
AI TECHNIQUE	30

આમાં મીડ કોમ્પોનન્ટ માં જલો વિદ્યાર્થી ગેરહાજર રહે અથવા ફેઈલ થાય તો તેની અનુગામી મુલ્યાંકન પદ્ધતિ તરીકે સ્પેસીઅલ ટેસ્ટની તક આપવામાં આવશે.

PA(I) Component Evaluation Scheme:

હાજિરી તથા નિપતીનતા	10 (માહરો)
સમ દરીમિયન વર્કબુક અને લેખ માં વિદ્યાર્થી નું પદ્દર્શન	10 (માહરો)

Signature of the faculty

Signature of the HOD

Shantil Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

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) Dr. K.P. BADGUJAR (ii) Asst. Prof. A. A. RATHOD

GTU Scheme for the subject:

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

Course Evaluation Plan for PA (M) Component:

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

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

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

Signature of the HOD

Shantilal Shah Engineering College, Bhavnagar
Electrical Engineering Department
Subject Evaluation Scheme

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) Prof M V Gojiya (ii) Prof (Dr.) Ketan P Badgujar

→ **GTU Scheme for the subject:**

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA (M)	ESE Viva (V)	PA (I)		
03	00	00	03	70	30	00	00	100


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

Marks	PAT	Assignment 1
CO1	13	
CO2	13	
CO3		10
CO4	4	

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

In the test of PA (M) component, if the student obtains less than 15 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 15 marks. While calculating final marks of component PA(M), the marks of PAT/RPAT is converted from 30 marks to 20 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 (out of 20) whichever the case is and (ii) those of two assignments.

Signature of the faculty members:



(i) Prof. M V Gojiya



(ii) Prof. (Dr.) Ketan P Badgujar



Prof & HOD (Electrical)