Internal evaluation schemes for BE 3<sup>rd</sup>, 4<sup>th</sup>,

5<sup>th</sup> and 7<sup>th</sup> semester, and ME 3<sup>rd</sup> Semester

Subjects

# Electrical Department Shantilal Shah Engineering College, Bhavnagar

Note: The faculty may take online/ offline assessment as per the prevailing conditions and directives from GTU/Government for evaluation.

#### 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. 3<sup>rd</sup> Semester, Electrical Engineering

Name of Concerned Department: Electrical Name of Faculty Member: T. B. Maniar

**GTU Scheme for the subject:** 

O I C Stille	ne ror the se	~						
Te	aching Sche	me	Credits	Credits Examination Marks				
			Theory Marks		Practical Marks		Marks	
L	T	P	C	ESE (E)	PA (M)	ESE	PA	
						VIVA (V)	<b>(I</b> )	
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

<sup>\*</sup> 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	Level 1 60% of students scoring more than 50% marks i					
Assessment		assessment tools				
	Level 2	70% of students scoring more than 50% marks in				
		assessment tools				
	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 a remedial test and having cleared the remedial test.

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 (ii) A A Rathod

#### → GTU Scheme for the subject:

Tea	ching Sche	eme	Credits							
						Theory	Marks	Practical Marks		Takal
								Total		
L	Т	Р	С	ESE	PA	ESE	PA	Marks		
				(E)	(M)	Viva (V)	(1)			
				( )	,	- ( )	( )			
03		02	04	70	30	30	20	150		

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

	,	
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								
7,0000000000000000000000000000000000000		111							
	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							

(1)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) componant. ALA assignments are to be submitted for qualifying for remaining 10 marks and final marks out of 30 will be displayed.

(2) Conduction and format and mode of PAT will be according to prevailing guidelines.

Signature of the faculty members:

B.N.Vaidya Prof & HOD (Electrical)

# Electrical Engineering Department Subject Valuation Scheme

**Branch**: Electrical Engineering

Semester: 3<sup>rd</sup> Division/Batch: Electrical/All

Subject: DESIGN ENGINEERING 1 ASubject Code: 3130008Faculty: Prof. A B ParmarAcademic Year: 2020-21

Prof. A K Dhandhia Prof. M U Ghanchi (course coordinator) Prof G N Sarvaiya

#### **Teaching and Examination Scheme:**

Tea	ching Sch	eme	Credits	Examination Marks					
				Theory Marks		Practical Marks		Total	
L	Т	Р	С	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)**

	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 3<sup>rd</sup> 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.

Sr.		Sub-Head	Related
No.	Particular	Weightage	CO
1.	<ul> <li>✓ Importance and understanding of Design Thinking for innovation, entrepreneurship, societal solutions with various learning tools</li> </ul>	15	CO1
2.	Observation towards Empathy  ✓ Field Activity/observation and outcome ✓ Mind Mapping - Summarization and data analysis ✓ Observation Technique (AEIOU Framework)	20	CO2
3.	Log book (Individual completed log book, duly signed by guide regularly)  Continuous Assessment Card for Internal Evaluation (Complete and duly signed by guide regularly)	10	CO3
4.	Understanding of Canvases/Framework  ✓ AEIOU, Mind Mapping ✓ Empathy mapping ✓ Ideation Canvas ✓ Product development Canvas	15	CO2
5.	Design Problem Definition  ✓ Prior art search/Secondary research ✓ Diachronic and Synchronic analysis	10	CO1
6.	Report: Compilation of work report (process report), Online Certificate generated through DE Portal, Future action plan, Question 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				
	Level 1	assessment tools				
Internal Assessment	Level 2 Level 3	60% of students scoring more than 50% marks in internal				
		assessmenttools				
		70% of students scoring more than 50% marks in internal				
		assessmenttools				

#### Signature of the Subject Faculty:

- (i) Prof. A B Parmar
- (ii) Prof. A K Dhandhia
- (iii) Prof. M U Ghanchi (Course coordinator)
- (iv) Prof G N Sarvaiya

Prof & HOD (Electrical)

Name of the subject (code): Electrical Circuit Analysis (3130906) Semester/Branch: B.E. 3<sup>rd</sup> 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:

Tea	ching Sche	eme	Credits		Examination Marks				
				Theory Marks		Practical	Marks	Total	
L	Т	Р	С	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

<u>Marks</u>	TEST/QUIZ#	ASSIGNMENT-1	ASSIGNMENT-2
CO1	7		
CO2	7		
CO3		5	
CO4			5
CO5	6		

#: 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

			( )							
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					

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

Marks	EXP1	EXP2	EXP3	EXP4	EXP 5	EXP 6	EXP 7	EXP 8	EXP 9	EXP 10	EXP11	EXP12
CO1	3	2	2	3	3							
CO2										3	3	3
CO3												
CO4												
CO5						2	2	2	2			

Assessment Type	Attainment Levels								
	Lovel 1	60% of students scoring more than 50% marks in							
	Level 1	internal assessment tools							
Internal Assessment	Level 2	70% of students scoring more than 50% marks in							
	Level 2	internal assessment tools							
	Lovel 2	80% 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 12 marks out of 30, subsequently he/she is supposed to appear for a remedial work and having completed and submitted the remedial work, he/she is eligible to get 12 marks.

Signature of the faculty members:

#### **Electrical Engineering Department**

#### **Subject Evaluation Scheme (Internal)**

Name of Subject : Indian Constitution

Subject Code : 3130007 Branch : Electrical

Semester : 3

Name of Faculties : Prof. J.B.Sarvaiya

#### GTU Scheme for the subject:-

Teac	hing Sch	neme	Credits	Examination Marks				
			Theo	ry Marks	Practical I	Total		
L	Т	P	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

#### Shantilal Shah Engineering College, Bhavnagar Electrical Engineering Department <u>DRAFT COPY OF CO-PO MAPPING</u>

Name of the subject: Indian Constitution

Subject Code: 3130007

Semester/Branch: 3<sup>rd</sup> Electrical

Name of Concerned Department: Electrical Name of faculty member/s: Prof. J.B.Sarvaiya

Sr. No.	Course Outcomes
301.1	Enhance human values and awareness about law enactment and importance of Constitution.
301.2	Understand the Fundamental Rights and Fundamental Duties of the Indian Citizen to instill morality, social values, honesty, dignity of life and their social Responsibilities.
301.3	Create Awareness of their Surroundings, Society, Social problems and their suitable solutions while keeping rights and duties of the citizen keeping in mind.

#### **Course Articulation Matrix**

cos	PO1: Engg. Knowledge	PO2: Problem Analysis	PO3: Design/development of solutions	PO4: Conduct investigations of complex problems	PO5: Modern tool usage	PO6: The engineer and society	PO7: Environment and sustainability	PO8: Ethics	PO9: Individual and team work	PO10: Communication	PO11 : Project management and finance	PO12: Life-long learning	PSO1: Modern Software	PSO1: Training from COE
C801.1						1	-	2	-	-	-	-	-	-
C801.2						2	-	2	-	-	-	-	-	-
C801.3						2	-	1	-	-	-	-	-	-

3-High; 2-Medium; 1-Weak

Name of the subject (code): Power Electronics (3140915)

Semester/Branch: B.E. 4<sup>th</sup> Semester, Electrical Engineering; (teaching in semester 5<sup>th</sup> for equivalency of subjects.)

Name of Concerned Department: Electrical Name of faculty member: M K Bhatt

**GTU Scheme for the subject:** 

	Tea	ching Sche	eme	Credits		Examination Marks					
					Theory	Marks	Practical	T-4-1			
									Total		
	L	T	Р	С	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

	,
Marks	PAT
CO1	8
CO2	8
CO3	8
CO4	6

→ 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	Exp 8	Exp 9	Exp 10
CO1	1	1								
CO2			1	1		1	1	1	1	
CO3					1	2	2	2	2	1
CO4										2

Assessment Type	Attainment Levels							
	Level 1	60% of students scoring more than 40% marks in						
	Level 2	internal assessment tools						
Internal Assessment		70% of students scoring more than 40% marks in						
	Level 2	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 Prof & HOD (Electrical)

Name of the subject (code): Power System I (3140914)

Semester/Branch: 4<sup>th</sup> Semester Electrical Name of Concerned Department: Electrical Name of faculty member/s: Prof Astik K Dhandhia

**GTU Scheme for the subject:** 

Teaching Scheme Credits								
reat	reasining serience create		Credits Examination Theory Marks		Practical Marks			
L	Т	Р	С	ESE (E)	PA(M)	ESE (V)	PA(I)	Total 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 2
CO1	6		
CO2	8		
CO3	6		
CO4		6	
CO5			4

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	Exp 8	Exp 9	Exp 10	Exp 11
CO1				2	2						2
CO2						2			2		
CO3										2	
CO4							3	3			
CO5	2	1	1								

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 member:

# 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. 5<sup>th</sup>Semester (UG), Electrical Engineering

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

→ GTU Scheme for the subject:

Teaching Scheme Credits				Examination Marks				
_	L T P C	Theory	Marks	Practical Marks		Total		
L		Р	C	ESE (E)	PA (M)	ESE(V)	PA(I)	Marks
2	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.

#### $\rightarrow$ 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.

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:

(i) Prof. A A Rathod

Prof & HOD (Electrical)

## Electrical Engineering Department Subject Valuation Scheme

**Branch**: Electrical Engineering

Semester: 5<sup>th</sup> Division/Batch: Electrical/All Subject: DESIGN ENGINEERING 2 A Subject Code: 2150001/3150001

Faculty: Academic Year: 2020-21

(i) Prof. M D SOLANKI(ii) Prof. J B Sarviaya(iii) Prof. M K Bhatt(Course coordinator)(iv) Prof. A A Rathod

#### **Teaching and Examination Scheme:**

Tea	Teaching Scheme Credi			Examination Marks			T . 4 . 1		
				Theory Marks		Practical Marks		Total	
L	Т	Р	С	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)**

	Particular							
Marks	Orientation with revision of Design Thinking	Empathization Phase	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		2		
CO3					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.

Sr.	Particular	Sub-Head	Related
No.		Weightage	CO
1.	Observation towards Empathy  ✓ Field Activity/observation and outcome  ✓ Mind Mapping-Summarization and data analysis  ✓ Observation Technique (AEIOU Summary)	20	CO1
2.	Log book (Individual completed log book, duly signed by guide regularly)	10	CO2
3.	Design Problem Definition  ✓ Secondary research/ Prior art search  ✓ Diachronic and Synchronic analysis	10	CO3
4.	Canvases/Frameworks  ✓ AEIOU, Mind Mapping  ✓ Empathy mapping  ✓ Ideation Canvas  ✓ Product development	15	CO2
5.	Design Problem Definition	15	CO1
6.	Compilation of work report (process report), Future action plan, Question and Answer, Communication Skill.	10	C03
	TOTAL	80	

Assessment Type		Attainment Levels				
Internal	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:

- (v) Prof. M D SOLANKI
- (vi) Prof. J B Sarviaya
- (vii) Prof. M K Bhatt (Course coordinator)
- (viii) Prof A A Rathod

Prof & HOD (Electrical)

Note: As per GTU Instruction (mailed on 18/07/2020), subject code 2150001 has to be continued for 5<sup>th</sup> semester regular students. If there is any change by GTU in future then according to that above content might be changed.

# **Electrical Engineering Department**

Subject Valuation Scheme (Internal)

**Branch** : Electrical Engineering

5<sup>th</sup> Semester : **Division/Batch** : Electrical/All Subject : Electrical Machines - II **Subject Code** : 3150910 Academic Year : 2020-21 **Faculty** : Prof. (Dr.) K. P. Badgujar

Prof. G. N. Sarvaiya

#### **Teaching and Examination Scheme:**

Tea	ching Sch	eme	Credits	Examination Marks				
				Theory Marks		Practical Ma	rks	Total
L	Т	P	С	ESE(E)	PA(M)	ESE(V)	PA(I)	Marks
3	0	2	5	70	30	30	20	150

#### **Examination Scheme for PA (M):**

Quizzes 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 from quizzes. If the student obtains less than 12 marks from quizzes, 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.

		Practical								
Marks>	01	02	03	04	05	06	07	08	09	10
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							
	Level 1	assessment tools							
Internal Assessment	Level 2	60% of students scoring more than 50% marks in internal							
		assessment tools							
		70% of students scoring more than 50% marks in internal							
	Level 3	assessment tools							

Signature of the Subject Faculty:

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

Prof & HOD (Electrical)

Name of the subject (code): Professional ethics (3150709) Semester/Branch: B.E. 5<sup>th</sup> Semester, Electrical Engineering

Name of Concerned Department: Electrical Name of faculty member/s: (i) Prof M K BHATT

#### → GTU Scheme for the subject:

Tea	ching Sche	eme	Credits		Examination Marks			
				Theory	Marks	Practical	Marks	Takal
		_	_					Total
L	Т	Р	С	ESE	PA	ESE	PA	Marks
				(E)	(M)	Viva (V)	(1)	
03	00	00	03	70	30	00	00	100

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

Marks	PAT(Marks)
CO1	7.5
CO2	6
CO3	6
CO4	7.5
CO5	3

Assessment Type		Attainment Levels								
	Lovel 1	60% of students scoring more than 40% marks in								
	Level 1	internal assessment tools								
Internal Assessment	Level 2	70% of students scoring more than 40% marks in								
	Level 2	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 Prof & HOD (Electrical)

### **Electrical Engineering Department**

#### **Course Evaluation Plan**

Name of Subject: Power System-II Subject Code: 3150911

Academic Year: 2020-21

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

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

#### • GTU Scheme for the subject:

Teac	hing Sch	neme	Credits		Examination Marks				
				Theory Marks		<b>Practical Marks</b>		KS	Total
L	T	P	C	ESE (E)	PA(M)	ESE(V	ESE(V)		Marks
				ESE (E)	1 11(111)	ESE	OEP	PA(I)	
04	00	02	05	70	20	20	10	20	150

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

Theory Course Outcome	Progressive Assessment Test <sup>#</sup>
CO-1	10
CO-2	10
CO-3	10
CO-4	
CO-5	

<sup>#</sup> Subject to government/GTU directives issued from time to time.

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

Laboratory Laboratory Assignments <sup>®</sup>										
Course	1	2	3	4	5	6	7	8	9	10
Outcome										
CO-1	02	02	02	02						
CO-2					02	02	02	02		
CO-3									02	02

<sup>@</sup> 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					
	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				
	Level 3	assessment tools				

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

**Branch**: Electrical Engineering

Semester:5thDivision/Batch:Electrical/AllSubject:Signals and SystemsSubject Code:3150912Faculty:Prof. M. U. GhanchiAcademic Year:2020-21

#### **Teaching and Examination Scheme:**

Tea	ching Sch	eme	Credits	Examination Marks					
					Theory Marks		Practical Marks		Total
L	Т	Р	С	ESE(E)	PA(M)	ESE(V)	PA(I)	Marks	
3	0	2	5	70	30	30	20	150	

#### **Examination Scheme for PA (M):**

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

Marks	PA(M)
CO1	12
CO2	18
CO3	
CO4	

**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 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.

		Practical									
Marks>	01	02	03	04	05	06	07	08	09	10	
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
	revel 1	assessment tools
Internal Assessment	Level 2	60% of students scoring more than 50% marks in internal
	Levei Z	assessment tools
	Level 3	70% of students scoring more than 50% marks in internal
	Level 3	assessment tools

Signature of the Subject Faculty:

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

Prof & HOD (Electrical)

Name of the subject (code): Design of AC Machines (2170909) Semester/Branch: B.E. 7<sup>th</sup> Semester, Electrical Engineering

Name of Concerned Department: Electrical

Name of faculty member/s: (i) Prof G N Sarvaiya (ii) Prof J K Parmar

Academic Year: 2020-21

Batch: 2017-21

→ GTU Scheme for the subject:

Tead	ching Sch	eme	Credits		Examination Marks					
				Theory Marks			Practical Marks			Total
L	Т	Р	С	EOE (E)	PA(M)		ESE(V)		DA(I)	Marks
				ESE (E)	PA	ALA	ESE	OEP	PA(I)	
03	00	02	05	70	20	10	20	10	20	150

- → Course Evaluation Plan for PA (M) Component: Total marks 30
- ightarrow MCQ type examination/assignment will be conducted during semester.

Marks	PAT
CO1	30
CO2	
CO3	
CO4	

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

Marks	Pr01	Pr02	Pr03	Pr04	Pr05
CO1			4		
CO2				4	
CO3	2	2	2	2	
CO4					4

Assessment Type	Attainment Levels								
	Lovel 1	50% of students scoring more than 50% marks in							
	Level 1	internal assessment tools							
Internal Assessment	Level 2	60% of students scoring more than 50% marks in							
	Level 2	internal assessment tools							
	Level 3	70% 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 12 marks out of 30, subsequently he/she is supposed to appear for a remedial test/work and having cleared the remedial test he/she is eligible to get 12 marks.

Signature of the faculty members:

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

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

Name of Concerned Department: Electrical Name of faculty member/s: (i) M. D. Solanki

#### → GTU Scheme for the subject:

Tea	ching Sche	eme	Credits	Credits Examination Marks						
		Theo		ory Marks		Practical Ma		^ks	Total	
L	Т	Р	С	ESE	PA	(M)	ESE	(V)	PA	Total Marks
				(E)	PA	ALA	ESE	OEP	(1)	
03	00	02	05	70	20	10	20	10	20	150

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

	,	
Marks	PAT	End Sen Presentation
CO1	5	2
CO2	9	2
CO3	3	2
CO4	3	2
CO5	0	2
CO6	0	0

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

			<u> </u>						
Marks	Tut 1	Tut 2	Tut 3	Tut 4	Tut 5	Tut 6	Tut 7	Tut 8	Tut 9
CO1	1	1							
CO2		1	1	1					
CO3			1	1	1				
CO4				1	1	1	1		
CO5						1	1	1	
CO6									5

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

Signature of the faculty members:

(i) M. D. Solanki Prof & HOD (Electrical)

#### **Electrical Engineering Department**

#### **Course Evaluation Plan**

Name of Subject: (2170901) Interconnected Power Systems Subject Code: 2170901

Academic Year: 2020-21

**Semester/Branch:** B.E. Sem-7<sup>th</sup> (Electrical) **Name of Concerned Department:** Electrical

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

#### • GTU Scheme for the subject:

Teac	hing Sch	neme	Credits		Examination Marks					
				Theory Marks			heory Marks Practical		arks	Total
L	T	P	C ESE (E		PA	( <b>M</b> )	ESI	$\mathbf{E}(\mathbf{V})$	PA(I)	Marks
				Lon (L)	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	Progressive	Active Learning	Active Learning	Active Learning
Outcome	<b>Assessment Test</b> #	Assignment-1*	Assignment-2*	Assignment-3*
CO-1	10			
CO-2	10			
CO-3		3.33		
CO-4			3.33	
CO-5				3.33

<sup>#</sup> Subject to government/GTU directives issued from time to time.

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

Course		Laboratory Assignments <sup>®</sup>								
Outcome	1	1 2 3 4 5 6 7 8 9 10								
CO-1	2	2	2							
CO-2				2	2					
CO-3						2	2			
CO-4								2	2	
CO-5										2

<sup>@</sup> 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				
	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			

<sup>\*</sup> Marks obtained in each ALA will be scaled to a denominator of 3.33 each.

## Electrical Engineering Department Subject Valuation Scheme (Internal)

**Branch**: Electrical Engineering

Semester: 7thDivision/Batch: Electrical/AllSubject: Project - ISubject Code: 2170004Batch: 2017-21Academic Year: 2020-21

#### **Teaching and Examination Scheme:**

Tea	ching Sch	eme	Credits		Examinat	ion Marks		
				Theory Marks		Practical Ma	rks	Total
L	Т	Р	С	ESE(E)	PA(M)	ESE(V)	PA(I)	Marks
0	0	8	8	0	0	80	20	100

#### **Examination Scheme for PA(I):**

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

Parameter	Maximum Marks
PPR	04
PSAR	02
Report	04
Individual Performance	04
Team Performance	06

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

Signature of the Subject Faculty:

Name of the subject: Switch Gear and Protection

Subject Code: 2170908

**Semester/Branch**: 7<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

Teachi	ng Schem	е	Credits	redits Examination Marks				
				Theory	Marks	Practical	Marks	Total
L	Т	Р	С	ESE (E)	PA (M)	ESE Viva (V)	PA (I)	Marks
04	00	02	06	70	30	30	20	150

Course Evaluation Plan for PA (M) Component: 30

Marks	PAT	Assignment 1	Assignment 2
CO1	8		
CO2	8		
CO3	8		
CO4	6		
CO5	0		

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

			<u> </u>	•						
Marks	Pract	Pract	Pract	Pract	Pract	Pract	Pract	Pract	Pract	Pract
	1	2	3	4	5	6	7	8	9	10
CO1		2			2			2		
CO2						2	2			
CO3	2									
CO4			2	2						
CO5									2	2

Assessment Type	Attainment Levels							
	Level	11	60% of stu assessmer	udents sco nt tools	oring more	than 50%	% marks ir	n internal
Internal Assessment	Level	12	70% of stu assessmer	udents sco nt tools	oring more	than 50%	% marks ir	n internal
	Level	13	80% of stu assessmer		oring more	than 50%	% marks ir	n internal

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.

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:

Teac	hing Sch	neme	Credits	Examination Mark				
				Theory	Marks	Practical Mark		m . 1
-	<b></b>			505	-			Total
L	T	Р	C	ESE	PA	ESE	PA	Marks
				(E)	(M)	Viva (V)	(I)	
03	00	00	03	70	30	00	00	100

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

Marks	PAT	Assignment 1
CO1	8	
CO2	8	
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 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 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.

Signature of the faculty members:

(i) Prof. M V Goijya (ii) Prof (Dr.) Ketan P Badgujar

Prof & HOD (Electrical)

Name of the subject: WASTE TO ENERGY

**Subject Code:** 3730009

**Semester/Branch:** 3<sup>rd</sup> – ME - Electrical **Name of Concerned Department:** Electrical

Name of faculty member/s: (i) Dr. K. P. BADGUJAR (i) Asst. Prof A A RATHOD

**GTU Scheme for the subject:** 

Teac	hing Sch	neme	Credits	Examination Marks			TD 4 1	
т	I T D	C	Theory Marks		Practical Marks		Total	
	C	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	
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 online quiz. Each quiz will be of 10 marks. There will be total four quizzes. The three best marks out of the 4 quiz will be considered. If the student obtains less than 15 marks out of 30, subsequently he/she can appear for a remedial test/quiz 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