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

Branch	: Electrical Engineering		
Semester Subject	: 6th : DESIGN ENGINEERING 2 B	Division/Batch	: Electrical/Al
Faculty	: Design Englineering 2 B	Subject Code Academic Year	: 3160001 : 2022-23
	(i) Prof. B. N. Vaidya	Academic Tear	. 2022-23
	(ii) Prof. J. B. Sarvaiya		
	(iii) Prof. T. B. Maniar		
	(iv) Prof. M. U. Ghanchi		

Teaching and Examination Scheme:

Tea	iching S	cheme	Credits				ination arks		
				Th	eory Ma	arks	Practical	Marks	To al
L	T	Р	C	ESE(E)	PA	(M)	ESE Viva (V)	PA (I)	Maks
0	0	2	1	00	00	00	80	20	100

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

1		Particular									
Marks	System level Design	Detailed Design	CAD Modelling & Analysis	Building the solutions	Final Prototype	Project Fair	Feedback is Final Report				
CO1	2	1	2			1					
CO2	1	2		2		2					
CO3					2	2	3				

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:

Prof. M. U. Ghanchi (Course coordinator)

& HOD (Electrical)

Shantilal Shah Engineering College, Bhavnagar Electrical Engineering Department

Subject Valuation Scheme (Internal)

Branch Semester Subject	 Electrical Engineering 6 th Microprocessors and	Division/Batch Subject Code	Electrical/All 3160914
Faculty	 Microcontrollers Prof. S. K. patel (Course coordinator)	Academic Year	2022-23

Teaching and Examination Scheme:

			Condite		Total			
Teac	Teaching Sche		Credits	The	Examinat ory Marks	Practical N	larks	
				ine	Ury Warks	ESE(V)	PA(I)	Marks
L	т	Р	с	ESE(E)	PA(M)	ESE	1000	
					20	30	20	150
•	0	2	5	70	30			

Examination Scheme for PA:

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

inducted during semester.	DAT	Assignment
Marks	PAT	1150-8-
COl	10	
CO2	10	5
CO3		5
CO4		DAT/RPA

Note: In PA component, for all the students it is mandatory to pass PAT/RPAT exam. If the student obtains less than 08 marks out of 20 in PAT, subsequently he/she is supposed to appear for a RPAT and having cleared the remedial test he/she is eligible to get 08 marks even though the student has obtained marks more than 08 in RPAT. CO3 and CO4 will be attained through Assignments and the assignment marks will be added to final PAT result out of 30 marks.

Examination Scheme for PA(I):

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

on un	/ Udb.				Prac	tical				
				04	05	06	07	08	09	10
	01	02	03	04	05	00	-			
C01				-	01	01	02	01	01	01
CO2	02	02	02	02	01	01	UL			
CO3				-	01	01		01	01	01
CO4										

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

Signature of the Subject Faculty:

Prof. S. K. Patel Article Prof. M. U. Ghanchi (i) (ii)

& HOD (Electrical) Prof

Shantilal Shah Engineering College, Bhavnagar Electrical Engineering Department Subject Evaluation Scheme for Even term 2022-23

Name of the subject (code): Electrical Measurements and Measuring Instruments (3160915) Semester/Branch: B.E. 6th Semester (UG), Electrical Engineering Name of Concerned Department: Electrical Name of faculty member/s: (i) Prof J B Sarvaiya(iii)Prof M.V.Gojiya.

→ GTU Scheme for the subject:

Tea	ching Sch	eme	Credits					
				Theory Marks		Practical Marks		Total
L	Т	Р	с	ESE (E)	PA(M)	ESE(V)	PA(I)	Marks
					20	30		
04	00	02	05 -	70	30		20	150

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

Marks	PAT
CO1	7
CO2	9
CO3	7
CO4	7

→ Course Evaluation Plan for PA (I) Component: Total marks 20(Based on Lab performance and Viva)

Marks	Laboratory
C01	5
• CO2	5
CO3	5
CO4	5

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			

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 more than 12 in RPAT.

Signature of the faculty member:

Prof J B Sarvaiya

H.O.D. E.E. DEBT

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

Name of the subject: Wind and Solar Energy Subject Code: 3160917 Semester/Branch: 6th – BE – Electrical Name of Concerned Department: Electrical Name of faculty member/s: (i) Prof A A Rathod (ii) Prof M U Ghanchi

GTU Scheme for the subject:

Teac	hing Sc	heme	Credits		Examinatio			Total	
				Theory Marks		Practical Marks		Marks	
L T P	P	C	ESE (E)	PA (M)	ESE(V)	PA(I)	Maiks		
2	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	7
CO2	7
CO3	7
CO4	5
CO5	4

Α	ttainment Levels
	60% of students scoring more than 50% marks in
Level 1	intermal assessment tools
	70% of students scoring more than 50% marks in
Leve Z	to a laggement tools
	80% of students scoring more than 50% marks in
Level 3	internal assessment tools
	Level 1

In the test of PA (M) component, there will be 30 marks exam. 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 out of 30.

Signature of the HOD

Signature of the faculty members:

Prof A A Rathod

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

Branch Semeste r	:	Electrical Engineering 6th	Division/Batch	:	Electrical/Al
Subject Faculty	:	Elements of Electrical Design Prof. B. N. Vaidya Prof. M. U. Ghanchi	Subject Code Academic Year	:	3160918 2022-23

Teaching and Examination Scheme:

Tea	aching Scheme Credits Examination Marks					Examination Marks			
				Tł	neory Marks	Practical Ma	rks	Tot	
L	L T P		С	ESE(E)	PA(M)	ESE(V)	PA(I)	Var	
3	0	0	3	70	30	0	0	1.0	

Examination Scheme for PA (M):

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

and a daring b	emester. Dis	sinounon or man	is nearly will be as pe
Marks		PA(M)	Assignment
CO1			
CO2	-	20	
CO3			
CO4			10
Total			Total

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

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

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 interna assessment tools
	Level 3	70% of students scoring more than 50% marks in interna assessment tools

Signature of the Course Coordinator:

(i) Prof. M. U. Ghanchi

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(ii) Port B.N. Vaidge

HOD (Electrical)

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

Name of the subject (code): Electrical Drive (3160919) Semester/Branch: B.E. 6th Semester, Electrical Engineering; Name of Concerned Department: Electrical engineering Name of faculty member: Prof. M. K. Bhatt

GTU Scheme for the subject:

Teaching Scheme		Credits	Credits Examination Marks					
				Theory Marks		Practical Marks		Tedal
ι	T	P	c	ESE (E)	PA (M)	ESE Viva (V)	PA (I)	Total Marks
03	01	02	05	70	30	30	20	150

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

Marks	PAT
CO1	8
COZ	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 S	Exp 6	Exa 7	Fro 8	Frp Q	Ero 10
CO1	2		1			2		anp o	LAP 0	- mp at
CO2		2	2				2			1
CO3		1		2	2		-	2		
CO4		1		-	-			2	4	-

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

	Criteria			Performance leve	1		
		Very poor	Poor	Good	Very good	Excellent	
		0	2	3	4	S	
exp iden obje	Purpose of experiments / identify objective	Students cannot able to identify the objective of experiments.	Students can able to name the experiments with little description, but not fully aware with objective.	Student can able to explain the objective with satisfactory explanation.	Student can able to identify the objective with proper justification	Students can able to Identify objective with correct justification. Student shows the excellent skill to relate the experiments with real life technical issues.	
of the expense set up	rimental	Students cannot able to name of the apparatus/ software tool required in the experiments.	Students can able to name the apparatus/software required in the experiments with little description, but not fully aware with setup.	Student can able to explain use of apparatus / software with satisfactory level.	Student can able to use of all apparatus/ software used in experiments with proper justification	Student can able to use of all apparatus/ software used in experiments with suggesting technical alternate arrangement for the experiment.	

Analyzing / Conclusion		justification.	able to conclude with	21006416 244	Students can able to conclude with correct Justification. Student shows the excellent skill to suggest relevant change in conclusion.
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	1	Attainment Levels
Assessment Type		Attainment Levess 60% of students scoring more than 50% marks in
Internal Assessment	Level 1	60% of students scoring more than 50% marks in 70% of students scoring more than 50% marks in
	Level 2	70% of students scoring more than 50% marks in
	Level 3	Internal assessment tools 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:

(1)

SC . Prof M K Bhatt (course coordinator)

Prof & HOD (Electrical)

Shantilal Shah Engineering College, Bhavnagar.

Electrical Engineering Department

Course Evaluation Plan

Subject Code: 3160920

Name of Subject: Interconnected Power System Academic Year : 2022-23 Semester/Branch: B.E. Sem-6th (Electrical) Name of Concerned Department : Electrical Name of Faculty Member(s) : Prof. V. B. Pandya

GTU Scheme for the subject:

Teac	hing Sch	eme	Credits			-			
I Cat	ning our	CINC		Theory	Marks	Practical	Marks	Total	
L	Т	г р С	С	ESE (E) PA(M)		ESE(V)	PA(I)	Marks	
			~ ~ ~	20	20	30	20	150	
03	00	02	04	70	30	50	20	have	

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

Course Outcome	Progressive Assessment Test [#] (Descriptive)	Assignment ^{##}
	(Descriptive)	3
CO-1	•	-
CO-2	7.5	-
CO-3	6	6 .
CO-4	-	0
CO-5	7.5	0
	21	408/
Total	40%	40%
Passing Marks		COL Students failing to score passes

PAT marks will be normalized out of 21. Passing marks for PAT is 8.4 out of 21. Students failing to marks will be allowed to appear in Remedial PAT with the passing standard remaining the same. However, students

passing in remedial test shall be considered to have scored only passing m urks, i.e. 8.4 out of 21. Assignment for CO-1 will have to be solved and submitted by the students before due date for CO1 and CO4.

n for PA (I) Component: Total marks 20

-	Course Evaluation Plan for PA (1) Component 2 4											
Laboratory Assignments										10		
Course		-	2	4	5	6	7	8	9	10		
Outcome	1	2	3			-	-	-	-	•		
CO-1	-	-	~	-	20	-	-	-	-	•		
CO-2	20	20	20	20	20		-	20	-	•		
		-	-	-	-	20	· 20	-	-	•		
CO-3			-	-	-	20	20	-	20	20		
CO-4	-		-	-	-	-	- calculate P	A(I) marks	obtained o	ut of 20.		
	1	-	1				calculate P	ALLIMAN	001			

* Total marks obtained in laboratory assignments 1 to 10 will be averaged to calculate PA(I) marks

		Attainment Level
Assessment Type		60% of students scoring more than 50% marks in internal
	Level 1	assessment tools 70% of students scoring more than 50% marks in internal
Internal Assessment	Level 2	70% of students scoring more than 50% marks in internal75% of students scoring more than 50% marks in internal
	Level 3	assessment tools

Town & Blandy

Prof & Head

Name and Signature of Faculty

DEVELOPMENT OF RUBRICS FOR EVALUATING THE SKILLS OF STUDENTS BY MAPPING PERFORMANCE CRITERIA WITH COURSE OUTCOMES INTERNAL EVALUATION (20 MARKS), ACADEMIC YEAR-2022-23

NAME OF COURSE : (3160920) Interconnected Power System

NAME OF SUBJECT COORDINATOR : V B Pandya

			ates ng of t the s	5 5 5	ž – ž – r – 1	
		EXCELLENT (5)	The student demonstrates excellent understanding of the concept, applies given problem and also has given problem and also has application in various scenarios.	The student is able to prepare a generic user interactive computer progrma/simulation which would work for solution of a variety of problems based on the same concept.	The student is able to verify the correctness of the results/graphs, draw wale conclusions, and is ablo able to explain the effect of change in input parameters change in input parameters change in input parameters inmular problem.	The student is able to prepare and submit the lab assignment within prescribed time limit without any erros and has very good quality presentation/formatting.
RFORMANCE OF STUDENT		VERY GOOD (4)	The student demonstrates very good understanding of the concept and solves given problem(s) correctly without any errors/suggestions.	>	o verify ns, for thout	The student is able to prepare and submit the lab pi assignment without pi prescribed time limit without pi erros and has good quality wi presentation/formatting.
	ANALYTICAL SCALE (1 to 5) FOR RATING THE PERFORMANCE OF STUDENT	GOOD (3)	The student demonstrates full understanding of the concept and its application with minor errors/suggestions.	The student is able to prepares a computer program/simulation for solution of given problem using the given data.	e to verify is able to ions from problem	The student is able to prepare and submit the lab p assignment/ manual within a prescribed time limit without p ignificant errors/corrections er but has average quality of pr presentation/formatting.
	ANALYTICAL SC	AVERAGE (2)	The student demonstrates partial understanding of the concept with no/little idea about its application.	The student is either able to prepare an algorithm/block diagram for computer program/simulation with some errors/suggestions.	Ö ar	The student is able to prepare and submit the lab assignment but has significant errors/corrections or poor/average quality of presentation of late submission of assignment without errors.
		POOR (1)	The student does not understand the theory concept or how to apply it for solution of given problem.	The student is not able The student is either to write any algorithm or able to prepare an instructions of the algorithm/block program for computer select required program for computer simulation blocks. With some errors/suggestions.		The student is not able to prepare the correct lab assignment within prescribed time limit.
		PERFORMANCE CRITERIA/ ASSESSMENT PROCESS	Laboratory assignment includes a numerical problem which needs to be solved manually as well as using a computer program.	A MATLAB program/simulation is to be prepared for the solution of the given problem.	Output of the program in the form of the student is not able computed results and/or graphs must be to verify correctness of verified for correctness in different the results/graphs. Seenarios. A valid conclusion must be derived from the information obtained.	A laboratory assignment must be prepared and submitted before due date. The assignment must include manual solution of the problem, computer program and its results and the conclusion derived.
		CATEGORY	APPLICATION OF THEORY CONCEPT	USE OF SOFTWARE TOOLS	ANALYSIS OF RESULTS	PRESENTATION
		S.NO.	1	7	m	4

Show pl

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

Branch	Electrical Engineering			
Semester	6 th	Division/Batch		Electrical/All
Subject	Electrical Materials	Subject Code	2	3160918
Faculty	Prof. S. K. Patel	Academic Year	Ċ	2022-23
	(Course coordinator)			

Teaching and Examination Scheme:

Teac	ching Sche	icheme Credits Examination Marks						
				Theory Marks		Practical N	larks	Total
L	L T P	с			ESE(∨)		Marks	
				ESE(E)	PA(M)	ESE	PA(I)	
3	0	0	3	70	30	0	0	100

Examination Scheme for PA:

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

Marks	PAT
CO1	10
CO2	10
CO3	10
CO4	

Note: In PA 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, subsequently he/she is supposed to appear for a RPAT and having cleared the remedial test he/she is eligible to get 12 marks even though the student has obtained marks more than 12 in RPAT.

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

Signature of the Subject Faculty:

Prof. S. K. Patel (i)

Prof & HOD (Electrical)

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

Name of the subject (code): Contributor Personality Development Program (3160002) Semester/Branch: B.E. 6th Semester (UG), Electrical Engineering Name of Concerned Department: Electrical Name of faculty member/s: Prof. M. D Solanki

→ GTU Scheme for the subject:

Teac	hing Sc	heme	Credits	Examination Marks				
		Theory	Theory Marks		Marks	Total		
L	L T P	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	7.5
CO2	7.5
CO3	7.5
CO4	7.5
CO5	-
CO6	-

In PA (M) component, 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 RPAT and have to clear the remedial test. He/She is eligible to get 12 marks even though the student has obtained marks more than 12 in RPAT.

 \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 tasks in a group or individual of total max. Marks as 20.

	Workbook submission
Marks	2.5
C01	2.5
CO2	2.5
CO3	2.5
CO4	5
CO5	5
C06	5

e/ online mode as

NOTE: All above evolution components will be conducted by t guidelines due to COVID-19.

per governmen	it guidenne.	Attainment
Assessment		Levels more than 50%
Туре		Levels 60% of students scoring more than 50%
	Level 1	60% of students scoring marks in internal assessment tools
Internal Assessment	Level 2	70% of students scoring marks in internal assessment tools
Assessment	Level 3	80% of students scoring marks in internal assessment tools

Signature of the faculty members:

Prof. M. D. Solanki

Prof & HOD (Electrical)