B. Tech (Electrical Engineering / Electronics & Power) - CBCS SCHEME OF EXAMINATION

THIRD SEMESTER

				T 1						Marks			Minimum Passing	
Board	Subject Code	Subject		Teach	ing Schei	me	Credit	Theory		Practi	cal			arks
			L	P	T/A	Total		Internal	Uni	Internal	Uni	Total	Theory	Practical
GS	BTCHEE301T	Electrical Engineering Mathematics	3	-	1T	4	4	30	70		-	100	45	
EE	BTCHEE302T	Network Analysis	3	-	1A	4	4	30	70		_	100	45	
EE	BTCHEE303T	Electrical Measurement & Instrumentation	3	-	1A	4	4	30	70		-	100	45	
EE	BTCHEE304T	Analog Devices & Circuits	3	-	1A	4	4	30	70			100	45	
EE	BTCHEE305T	Renewable Energy Studies	3			3	3	30	70			100	45	
EE	BTCHEE306T	Introduction to Python Programming	1	_		1	1	15	35			50	23	
CV	BTCHEE307T	Environmental Studies	1		1A	1	Audit	50*				Audit		
EE	BTCHEE302P	Network Analysis		2		2	1			25	25	50		25
EE	BTCHEE303P	Electrical Measurement & Instrumentation		2	<u>-</u>	2	1			25	25	50		25
EE	BTCHEE304P	Analog Devices & Circuits		2		2	1			25	25	50	-	25
EE	BTCHEE306P	Introduction to Python Programming		2		2	1			25	25	50	-	25
		Total	17	8	1T+4A	29	24	165	385	100	100	750		

• L-Lecture, P-Practical (Half Credit Per Hour), T-Tutorial, A-Activity, * Indicates Noncredit Subject

• For Internal 30 Marks, 15 Marks for activity and 15 Marks for CIA (Continues Internal Assessment)

And Mendhe) Or. P. T. Kambe.)

B.Tech (Electrical Engineering / Electronics & Power) - CBCS SCHEME OF EXAMINATION

FOURTH SEMESTER

				Teaching Scheme						Marks			Minimum Passing	
Board	Subject Code	Subject		Teach	ing Schei	ne	Credit	Theo	ry	Practi	cal		M	arks
Donia	Subject Sout		2 1		Internal	Uni	Internal	Uni	Total	Theory	Practical			
ETC	BTCHEE401T	Signal & Systems	3		1T	4	4	30	70	-	-	100	45	
EE	BTCHEE402T	Digital Electronics	3			3	3	30	70			100	45	
EE	BTCHEE403T	Electrical Machines -I	3	_		3	3	30	70			100	45	
EE	BTCHEE404T	Power System	3	_		3	3	30	70			100	45	
EE	BTCHEE405T	Electromagnetic Fields	3	-	1T	4	4	30	70			100	45	
EE	BTCHEE406T	Simulation & Programming Techniques	3	-		3	3	30	70			100	45	
EE	BTCHEE402P	Digital Electronics Lab		2	-	2	1		-	25	25	50		25
EE	BTCHEE403P	Electrical Machines –I Lab		2		2	1			25	25	50		25
EE	BTCHEE406P	Simulation & Programming Techniques Lab		2	_	2	1			25	25	50		25
EE	BTCHEE407P	Internship (2 to 3 Weeks) (After –III Semester Break)			1A	1	1		<u>-</u>	50		50		
		Total	18	6	2T+1A	27	24	180	420	125	75	800		

- L- Lecture, P Practical (Half Credit Per Hour), T Tutorial, A- Activity
- Internship: a) Students shall be allowed to undergo internship after III semester break.
 - b) Internal marks for internship of IV semester may be awarded after successful completion of internship.
 - c) 50 internal marks given shall be given as:
 - i) 25 marks based on detailed report about internship along with certificate provided by company / industry.
 - ii) 25 marks based on presentation by student about what he /she learned during internship.

And Ocambi (Ammendhe) (Br. P. T. Karonle)

B.Tech (Electrical Engineering / Electronics & Power) – CBCS SCHEME OF EXAMINATION

FIFTH SEMESTER

				Toook	ing Caha	mo				Marks			Minimu	m Passing
Board	Subject Code	Subject	i oila	1 eaci	ning Sche	me	Credit	Theo	ry	Practical			Marks	
			L	P	T/A	Total		Internal	Uni	Internal	Uni	Total	Theory	Practical
EE	BTCHEE501T	Microprocessor &												
		Microcontroller	3	Ī	-	3	3	30	70		-	100	45	
EE	BTCHEE502T	Control System	3	-	1A	4	4	30	70		-	100	45	
EE	BTCHEE503T	Power Electronics	3	-	1T	4	4	30	70		-	100	45	
EE	BTCHEE504T	Advanced Electrical Power												
		System	3	-		3	3	30	70		-	100	45	
EE	BTCHEE505T	Professional Elective -I	3		-	3	3	30	70			100	45	
EE	BTCHEE501P	Microprocessor &				he Lite								2.5
		Microcontroller		2	-	2	1			25	25	50		25
EE	BTCHEE502P	Control System		2		2	1			25	25	50		25
EE	BTCHEE503P	Power Electronics		2	-	2	1			25	25	50		25
		Total	15	6	1A+1T	23	20	150	350	75	75	650		

• L-Lecture, P-Practical (Half Credit Per Hour), T-Tutorial, A-Activity

	Professional Elective -I								
1	Electrical Machines –II								
2	Power System Practice								
3	Electrical Power Utilization								

Shirt. (DR-U EHIWOOD)

(A M Mendhe)

Or p. T. Komle

B.Tech (Electrical Engineering / Electronics & Power) - CBCS SCHEME OF EXAMINATION

SIXTH SEMESTER

				T 1						Marks			Minimu	m Passing
Board	Subject Code	Subject	-1813	Teach	ing Schei	me	Credit	Theo	ry	Practi	ical		M	arks
		•	L	P	T/A	Total		Internal	Uni	Internal	Uni	Total	Theory	Practical
GS	BTCHEE601T	Engineering Economics & Management	3	-		3	3	30	70			100	45	
EE	BTCHEE602T	Computer Application in Power System	3	-	1Т	4	4	30	70			100	45	
EE	BTCHEE603T	Switch Gear & Protection	3		1T	4	4	30	70	-	-	100	45	
5 5	BTCHEE604T	Open Elective -I	3		-	3	3	30	70			100	45	
EE	BTCHEE605T	Professional Elective –I	3	-	-	3	3	30	70			100	45	
EE	BTCHEE606T	Yoga & Meditation		2		2	Audit			25*		25*		
EE	BTCHEE602P	Computer Application in Power System		2	-	2	1			25	25	50		25
EE	BTCHEE603P	Switch Gear & Protection		2		2	1		-	25	25	50		25
EE	BTCHEE607P	Internship 3 to 4 Weeks (After 4 th or 5 th Semester Break/ Mini Project)			2A	2	2			50		50		
			15	6	2A+2T	25	21	150	350	100	50	650		

• L-Lecture, P-Practical (Half Credit Per Hour), T-Tutorial, A-Activity, * Indicates Noncredit Subject

OpenElective -I	Professional Elective -II
PLC and SCADA Systems	1.Advanced Control System
2. Solar PV Systems	2. Optimization Techniques
3. Organizational Behavior	3. Electrical Drives and their Control
Numerical Mathematics & Probability using MATLAB	

• Internship: a) Students shall be allowed to undergo internship after 4th or 5th semester break.

b) Internal marks for internship of VI semester may be awarded after successful completion of internship.

c) 50 internal marks given shall be given as:-

i) 25 marks based on detailed report about internship along with certificate provided by company / industry.

ii) 25 marks based on presentation by student about what he /she learned during internship.

Opami, Kamle

B.Tech (Electrical Engineering / Electronics & Power) – CBCS SCHEME OF EXAMINATION

SEVENTH SEMESTER

Board	Subject Code	Subject		Teacl	ning Sch	eme				Marks			Minimum Passing	
	Judgett Cout	Subject	-				Credit	Theory		Practical			Marks	
EE	BTCHEE701T	Professional Elective –III	L	P	T/A	Total		Internal	Uni	Internal	Uni	Total	Theory	Practical
			3		-	3	3	30	70			100	45	- ruetical
EE	BTCHEE702T	Professional Elective –IV	3			3	3	30	70			100		
EE	BTCHEE703T	Professional Elective –V	3			2			70	-	-	100	45	
FF			3			3	3	30	70			100	45	
EE	BTCHEE704T	Open Elective-II	3			3	3	30	70			100	15	
EE	BTCHEE705T	Ancient Indian History	1									100	45	
EE	DTCHEEZOCE		1			1	Audit	50*			-	50*		
EE	BTCHEE706P	Elective Lab –I		2		2	1			25	25	50		25
EE	BTCHEE707P	Elective Lab –II		2		2	,					30		23
EE	DTCUEFFE					2		-		25	25	50		25
EE	BTCHEE708P	Project Phase: 1		6	-	5	3			50		50		25
		Total	13	10		22	15	100			1.00	50		25
		- 5	13	10		23	17	120	280	100	50	550	y 1035-7	

• L- Lecture, P - Practical (Half Credit Per Hour), T - Tutorial, A- Activity, * Indicates Noncredit Subject

Open Elective- II wer Plant Engineering. ndamental of Control System ting and Maintenance of lectrical Equipment	Professional Elective - IV Digital Signal Processing and its pplications Electrical Installation & Design Clexible AC Transmission System Professional Elective - V 1. Electrical Machine Design 2. Electric and Hybrid Vehicles 3. Introduction to Smart Grid	Professional Elective - III 1. Advanced Power Electronics 2. High Voltage Engineering 3. Energy Management and Audit
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Elective Lab I	Elective Lab II
 HV Engineering OR Electrical Drawing and Simulation 	Electrical Installation & Design OR Electrical Workshop

Practical Based on Syllabus of respective Theory Subject (Any one practical on Virtual Lab)

• Workshop practical based on Advance Electrical Design.

(AM Merdie)

20. P.J. Karule

Mary .

B.Tech (Electrical Engineering / Electronics & Power) – CBCS SCHEME OF EXAMINATION

EIGHTH SEMESTER

Board	Subject Code	Subject		Teaching Scheme						Minimum Passing				
	J	Subject				Credit	Theory		Practical			Marks		
		Floatical C. C O	L	P	T/A	Total		Internal	Uni	Internal	Uni	Total	Theory	Practical
EE	BTCHEE801T	Electrical Safety & Standards.	3			3	3	30	70			100	45	Tractical
EE	BTCHEE802T	Advance Professional Elective –VI	3			3	3	30	70			100	45	
EE	BTCHEE803T	Advance Professional Elective –VII	3	-		3	3	30	70			100	45	
EE	BTCHEE804P	Project Phase: 2		12			6			75	75	150	43	75
		Total	9	12		9	15	90	210	75	75	450		73

Teacher shall be assigned workload for Project Phase 2 .

Professional Elective -VI	Professional Elective -VII
 Power Semiconductor Drives 	EHVAC/ DC Transmission System
Electrical Distribution System	2. Power Quality

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(AMMerdin)

Orcambe Dr. P.T. Kambe

LIST OF ELECTIVE SUBJECTS

Semester	Elective Type	Subject Title
		Electrical Machines –II
V – Fifth Semester	Professional Elective -1	2. Power System Practice
		3. Electrical Power Utilization
		PLC and SCADA Systems
	Owen Florida I	2. Solar PV Systems
	Open Elective -I	3. Organizational Behavior
VI –Sixth Semester		4. Numerical Mathematics & Probability using MATLAB
		Advanced Control System
	Professional Elective -II	2. Optimization Techniques
		3. Electrical Drives and their Control
		Power Plant Engineering
	Open Elective -II	2. Fundamental of Control System
		3. Testing and Maintenance of Electrical Equipment
		Advanced Power Electronics
	Professional Elective -III	2. HV Engineering
VII - Seventh Semester		3. Energy Management and Audit
VII - Seventh Semester		Digital Signal Processing and its Applications
	Professional Elective -IV	2. Electrical Installation & Design
		3. Flexible AC Transmission System
		Electrical Machine Design
	Professional Elective -V	2. Electric and Hybrid Vehicles
		3. Introduction to Smart Grid
	D C : 1701 41 377	1. Power Semiconductor Drives
	Professional Elective -VI	2. Electrical Distribution System
VIII - Eighth Semester		EHVAC/ DC Transmission System
	Professional Elective -VII	2. Power Quality

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(DR. U.E.HIMOSE)

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Promise P.J. Ramile