

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN
JODHPUR

SEMESTER SCHEME-2020-21

(SESSION 2021-2022 & ONWARDS)



TEACHING AND EXAMINATION SCHEME
AND SYLLABUS

ELECTRICAL ENGINEERING

(EE)

Curriculum Development Cell
Board of Technical Education, Rajasthan
W-6 Residency Road,
Jodhpur

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION RAJASTHAN, JODHPUR
TEACHING AND EXAMINATION SCHEME
(SEMESTER SCHEME-2020-21)
FOR DIPLOMA III SEMESTER (ELECTRICAL ENGINEERING) (EE)
SESSION 2021-2022 & ONWARDS

Subject Category	Subject Code	Subjects	Distribution of Time										Distribution of Max. Marks/ Duration					Total Marks	Credits
			Hours per week			End Semester Exam				Interppal Assessment			TU/ Assi	PR(S)					
			L	T	P	Tot	TH	Hrs	PR	Hrs.	CT								
PC	EE 3001	Introduction to Electric Generation Systems	3	0	0	3	60	3	-	-	20	20	-	100	3				
PC	EE 3002	Electrical Circuits	3	1	0	4	60	3	-	-	20	20	-	100	4				
PC	EE 3003	Electrical and Electronic Measurements	2	1	0	3	60	3	-	-	20	20	-	100	3				
PC	EE 3004	Electric Motors and Transformers	2	1	0	3	60	3	-	-	20	20	-	100	3				
PC	EE 3005	Renewable Energy Power Plants	3	0	0	3	60	3	-	-	20	20	-	100	3				
PC	EE 3006	Introduction to Electric Generation Systems Lab.	0	0	2	2	-	-	40	3	-	-	60	1					
PC	EE 3007	Electrical Circuits Lab.	0	0	2	2	-	-	40	3	-	-	60	1					
PC	EE 3008	Electrical and Electronic Measurements Lab.	0	0	2	2	-	-	40	3	-	-	60	1					
PC	EE 3009	Electric Motors and Transformers Lab.	0	0	2	2	-	-	40	3	-	-	60	1					
PC	EE 3010	Renewable Energy Power Plants Lab.	0	0	2	2	-	-	40	3	-	-	60	1					
SI	EE3011	Summer internship -I(4 weeks after II Sem.)	-	-	-	-	-	-	100	-	-	-	-	100	2				
VS	+EE.3333	Anandam (Joy of Giving)	-	-	1	1	-	-	-	-	-	-	-	100	2				
		Students Centered Activities	0	0	3	3	-	-	-	-	-	-	-	-	-				
		Total	13	3	14	30	300	300	300	100	100	400	1200	25					

- L : Lecture
- T : Tutorial
- P : Practical
- TH : Marks for End Semester Exam for Theory
- PR : Marks for End Semester Exam for Practical
- CT : Marks for class tests (Internal Assessment)
- TU/Assi : Marks for tutorials/Assignment (Internal Assessment)
- PR(S) : Marks for practical and viva (Internal Assessment)

1. +EE 3333 is same in all branches of Engineering

Student Centered Activities will be graded as A, B, C & D on the basis of attendance and interest of the student in learning.

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION, RAJASTHAN, JODHPUR
TEACHING AND EXAMINATION SCHEME
FOR DIPLOMA IV SEMESTER (ELECTRICAL ENGINEERING) (EE)
(SEMESTER SCHEME-2020-21)

SESSION 2021-2022 & ONWARDS

Subject Category	Subject Code	Subjects	Distribution of Time						Distribution of Max. Marks/ Duration						Total Marks	Credits
			Hours per week						End Semester Exam							
			L	T	P	Tot	TH	Hrs.	PR	Hrs.	CT	TU/Assi	PR(S)			
PC	EE 4001	Fundamentals of Power Electronics	3	0	0	3	60	3	-	-	20	20	-	100	3	
PC	EE 4002	Electric Power Transmission and Distribution	3	0	0	3	60	3	-	-	20	20	-	100	3	
PC	EE 4003	Induction, Synchronous and Special Electrical Machines	2	1	0	3	60	3	-	-	20	20	-	100	3	
PE	EE 4004	Programme Elective-I EE 40041- Industrial Instrumentation and Condition Monitoring EE 40042- Illumination Practices	3	0	0	3	60	3	-	-	20	20	-	100	3	
PE	EE 4005	Programme Elective-II EE 40051- Electrical Estimation and Contracting EE 40052- Electric Vehicles	3	0	0	3	60	3	-	-	20	20	-	100	3	
PC	EE 4006	Fundamentals of Power Electronics Lab.	0	0	2	2	-	-	40	3	-	-	60	100	1	
PC	EE 4007	Electric Power Transmission and Distribution Lab	0	0	2	2	-	-	40	3	-	-	60	100	1	
PE	EE 4008	Programme Elective I Lab. EE 40081- Industrial Instrumentation and Condition Monitoring Lab EE 40082- Illumination Practices Lab	0	0	2	2	-	-	40	3	-	-	60	100	1	
PE	EE 4009	Programme Elective II Lab. EE 40091- Electrical Estimation and Contracting Lab EE 40092- Electric Vehicles Lab	0	0	2	2	-	-	40	3	-	-	60	100	1	
PC	EE 4010	Induction, Synchronous and Special Electrical Machines Lab.	0	0	2	2	-	-	40	3	-	-	60	100	1	
PR	EE 4011	Minor Project	0	0	4	4	-	-	40	-	-	-	60	100	2	
AU	+EE 4222	Essence of Indian Knowledge and Tradition	2	0	0	2	-	-	-	-	-	-	-	-	0	
VS	+EE 4444	Anandam (Joy of Giving)	-	-	1	1	-	-	-	-	-	-	100	100	2	
		Students Centered Activities	0	0	3	3	-	-	-	-	-	-	-	-	-	
		Total	16	1	18	35	300	240	100	100	460	1200	24	24		

- L : Lecture
- T : Tutorial
- P : Practical
- TH : Marks for End Semester Exam for Theory

5. PR : Marks for End Semester Exam for Practical

6. CT : Marks for class tests (Internal Assessment)

7. TU/Assi : Marks for tutorials/Assignment (Internal Assessment)

8. PR(S) : Marks for practical and viva (Internal Assessment)

1. +EE 4222 and +EE 4444 are same in all branches of Engineering

Student Centered Activities will be graded as A, B, C & D on the basis of attendance and interest of the student in learning.

Note: Students will go for 6 Weeks Summer Internship in the Summer Vacations after Fourth Semester. The assessment of the Summer Internship will be done in Fifth Semester

GOVERNMENT OF RAJASTHAN
BOARD OF TECHNICAL EDUCATION, RAJASTHAN, JODHPUR
TEACHING AND EXAMINATION SCHEME
(SEMESTER SCHEME-2020-21)
FOR DIPLOMA V SEMESTER (ELECTRICAL ENGINEERING) (EE)
SESSION 2022-2023 & ONWARDS

Subject Category	Subject Code	Subjects	Distribution of Time						Distribution of Max. Marks / Duration						Total Marks	Credits
			Hours per week						End Semester Exam							
			L	T	P	Tot	TH	Hrs.	PR	Hrs.	CT	TU/Assi	PR(S)			
PC	EE 5001	Microcontroller Applications	3	0	0	3	60	3	-	-	20	-	-	100	3	
PC	EE 5002	Energy Conservation and Audit	3	0	0	3	60	3	-	-	20	-	-	100	3	
OE	+EE 5100	Open Elective-I +EE 51001- Economic Policies in India +EE 51002- Engineering Economics & Accountancy	3	0	0	3	60	3	-	-	20	-	-	100	3	
PE	EE 5003	Programme Elective III EE50031- Switchgear and Protection EE50032- Electrical Testing and Commissioning	3	0	0	3	60	3	-	-	20	-	-	100	3	
PE	EE 5004	Programme Elective IV EE50041- Electric Traction EE50042- Industrial Drives	3	0	0	3	60	3	-	-	20	-	-	100	3	
PC	EE 5005	Microcontroller Applications Lab.	0	0	2	2	-	-	40	3	-	-	60	100	1	
PC	EE 5006	Energy Conservation and Audit Lab.	0	0	2	2	-	-	40	3	-	-	60	100	1	
PE	EE 5007	Programme Elective III Lab. EE50071- Switchgear and Protection Lab EE50072- Electrical Testing and Commissioning Lab	0	0	2	2	-	-	40	3	-	-	60	100	1	
PE	EE 5008	Programme Elective IV Lab EE50081- Electric Traction Lab EE50082- Industrial Drives Lab	0	0	2	2	-	-	40	3	-	-	60	100	1	
SI	EE 5009	Summer Internship-II (6 weeks after IV/Sem)	0	0	0	0	-	-	100	-	-	-	-	100	3	
PR	EE 5010	Major Project	0	0	2	2	-	-	-	-	-	-	-	-	-	
VS	+EE 5555	Anandam (Joy of Giving)	--	--	1	1	--	--	--	--	--	--	100	100	2	
		Students Centered Activities	0	0	3	3	--	--	--	--	--	--	--	--	--	
		Total	15	0	14	29	300	260	100	100	340	1100	24	1100	24	

- L : Lecture
- T : Tutorial
- P : Practical
- TH : Marks for End Semester Exam for Theory
- PR : Marks for End Semester Exam for Practical
- CT : Marks for class tests (Internal Assessment)
- TU/Assi : Marks for tutorials/Assignment (Internal Assessment)
- PR(S) : Marks for practical and viva (Internal Assessment)

1. +EE 51001, +EE 51002 and +EE 5555 are same in all branches of Engineering

Student Centered Activities will be graded as A, B, C & D on the basis of attendance and interest of the student in learning

Note: Major Project will be continued and Assesed in VI Semester

GOVERNMENT OF RAJASTHAN
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TEACHING AND EXAMINATION SCHEME
FOR DIPLOMA VI SEMESTER (ELECTRICAL ENGINEERING) (EE)
(SEMESTER SCHEME-2020-21)
SESSION 2022-2023 & ONWARDS

Subject Category	Subject Code	Subjects	Distribution of Time							Distribution of Max. Marks/ Duration							Total Marks	Credits
			Hours per week							End Semester Exam								
			L	T	P	Tot	TH	Hrs	PR	Hrs	CT	TU/Assi	PR(S)					
HS	+EE 6111	Entrepreneurship and Start-ups	3	1	0	4	60	3	-	20	20	-	-	-	-	100	4	
OE	+EE 6200	Open Elective-II +EE 62001- Project Management +EE 62002- Renewable Energy Technologies	3	0	0	3	60	3	-	20	20	-	-	-	-	100	3	
	+EE 6300	Open Elective-III +EE 63001- Product Design +EE 63002- Disaster Management	3	0	0	3	60	3	-	20	20	-	-	-	-	100	3	
AU	+EE 6333	Indian Constitution	2	0	0	2	-	-	-	-	-	-	-	-	-	-	0	
PC	EE 6001	Building Electrification	3	0	0	3	60	3	-	20	20	-	-	-	100	3		
PC	EE 6002	Building Electrification Lab	0	0	2	2	-	-	40	3	-	-	60	60	100	1		
PR	EE 6003	Major Project	--	--	6	6	--	--	40	--	--	--	60	60	100	4		
SE	EE 6004	Seminar	1	0	0	1	-	-	-	-	-	-	100	100	100	1		
VS	+EE 6666	Anandam (Joy of Giving)	--	1	1	1	--	--	--	--	--	--	100	100	100	2		
		Students Centered Activities	0	0	3	3	--	--	--	--	--	--	--	--	--	--		
		Total	15	1	12	28	240	80	80	80	80	320	800	21	800	21		
													Grand Total :		800	21		

1. L : Lecture
2. T : Tutorial
3. P : Practical
4. TH : Marks for End Semester Exam for Theory

5. PR : Marks for End Semester Exam for Practical

6. CT : Marks for class tests (Internal Assessment)

7. TU/Assi : Marks for tutorials/Assignment (Internal Assessment)

8. PR(S) : Marks for practical and viva (Internal Assessment)

1. +EE 6111, +EE 62001, +EE 62002, +EE 63001, +EE 63002, +EE 6333 and +EE 6666 are same in all branches of Engineering

Student Centered Activities will be graded as A, B, C & D on the basis of attendance and interest of the student in learning.