

CURRICULUM STRUCTURE

I Semester Scheme of Studies - Diploma in Electrical & Electronics Engineering [C-20]

S. N	Course Category / Teaching Department	Course Code	Course Title	Hours per week			Total contact hrs /week	Credits	CIE Marks		SEE Marks		Total Marks	Min Marks for Passing (including CIE)	Assigned Grade	Grade Point	SGPA and CGPA
				L	T	P			Max	Min	Max	Min					
THEORY COURSES																	
1	BS/SC	20SC01T	Engineering Mathematics	4	0	0	4	4	50	20	50	20	100	40			Only SGPA for 1st Semester
2	ES/EE	20EE11T	Basics of Electrical Power System	4	0	0	4	4	50	20	50	20	100	40			
PRACTICAL COURSES																	
3	ES/ME	20ME02P	Computer Aided Engineering Graphics	2	0	4	6	4	60	24	40	16	100	40			
4	ES/EE	20EE01P	Fundamentals of Electrical & Electronics Engineering	2	0	4	6	4	60	24	40	16	100	40			
AUDIT COURSES																	
5	AU/SC	20AU01T	Environmental Sustainability	2	0	0	2	2	50	20	-	-	50	20			
6	AU Physical Activity		Sports/NCC/NSS/Youth Red Cross/Yoga/ Technical club.	Student shall enrol in any one of these activities in 1 st semester and shall participate actively. The student shall obtain 'Participation Certificate' in the activity to get eligible for the award of Diploma.													
Total				14	0	8	22	18	270	108	180	72	450	180			

T:- Theory P:- Practical D:- Drawing E:- Elective BS- Basic Science:: ES-Engineering Science:: HS-Humanities & Social Science:: AU-Audit Course:: EG: English ::SC: Science

Note:

- Assigned Grade, Grade Point, SGPA and CGPA to be recorded in the Grade/Marks card.
- AU- Physical Activity- Student participation in the selected physical activity shall be monitored and the participation record shall be maintained by the respective Programme Coordinator (Head of Section).
- Theory course Semester End Examination (SEE) is conducted for 100 marks (3 Hours duration)
- Practical course CIE and SEE is conducted for 100 marks (3 Hours duration)

II Semester Scheme of Studies - Diploma in Electrical & Electronics Engineering [C-20]

Sl. No	Course Category / Teaching Department	Course Code	Course Title	Hours per week			Total contact hrs/week	Credits	CIE Marks		SEE Marks		Total Marks	Min Marks for Passing	Assigned Grade	Grade Point	SGPA and
				L	T	P			Max	Min	Max	Min					
THEORY COURSES																	
1	SC/EE	20PM01T	Project Management Skills	2	0	4	6	4	50	20	50	20	100	40			
PRACTICAL COURSES																	
2	BS/SC	20SC02P	Statistics and Analytics	2	0	4	6	4	60	24	40	16	100	40			
3	EG/SC /EE	20EG01P	Communication Skills	2	0	4	6	4	60	24	40	16	100	40			
4	ES/CS	20CS01P	IT Skills	2	0	4	6	4	60	24	40	16	100	40			
5	ES/EE	20EE21P	Residential Electrical Wiring Practice	2	0	4	6	4	60	24	40	16	100	40			
AUDIT COURSES																	
6	AU/KA	20KA21T	Kannada-I/ಸಾಹಿತ್ಯಸಿಂಚನ - I /ಬಳಕೆ ಕನ್ನಡ - I	2	0	0	2	2	50	20	-	-	50	20			
Total				12	0	20	32	22	340	136	210	84	550	220			

SGPA & CGPA of 2nd Semester

T:- Theory P:- Practical D:- Drawing E:- Elective BS- Basic Science:: ES-Engineering Science:: HS-Humanities & Social Science:: AU-Audit Course:: EG: English ::SC: Science

Note:

1. Assigned Grade, Grade Point, SGPA and CGPA to be recorded in the Grade/Marks card.
2. Theory course Semester End Examination (SEE) is conducted for 100 marks (3 Hours duration)
3. Practical course CIE and SEE is conducted for 100 marks (3 Hours duration)



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Curriculum Structure

III Semester Scheme of Studies- Diploma in Electrical and Electronics Engineering

Sl. No.	Course Category / Teaching Department	Course Code	Course Name	Hours per week			Total contact hrs /week	Credits	CIE Marks		SEE Marks		Total Marks	Min Marks for Passing (including CIE marks)	Assigned Grade	Grade Point	SGPA and CGPA
				L	T	P			Max	Min	Max	Min					
Integrated Courses																	
1	PC/EE	20EE31P	Transformers and Alternators	3	1	4	8	6	60	24	40	16	100	40			Both SGPA & CGPA
2	PC/EE	20EE32P	Transmission and Distribution	3	1	4	8	6	60	24	40	16	100	40			
3	PC/EE	20EE33P	Switchgear and Protection	3	1	4	8	6	60	24	40	16	100	40			
4	PC/EE	20EE34P	Analog and Digital Electronics	3	1	4	8	6	60	24	40	16	100	40			
Audit Course																	
5	AU/KA	20KA31T	ಸಾಹಿತ್ಯ ಸಿಂಚನ-II/ ಬಳಕೆ ಕನ್ನಡ-II	2	0	0	2	2	50	20	-	-	50	20			
Total				14	4	16	34	26	290	116	160	64	450	180			

***PC: Programme Core:: AU-Audit Course:: KA: Kannada:: L: Lecture:: T: Tutorial:: P: Practice**



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IV Semester Scheme of Studies- Diploma in Electrical and Electronics Engineering

Sl. No.	Course Category / Teaching Department	Course Code	Course Name	Hours per week			Total contact hrs /week	Credits	CIE Marks		SEE Marks		Total Marks	Min Marks for Passing (including CIE marks)	Assigned Grade	Grade Point	SGPA and CGPA
				L	T	P			Max	Min	Max	Min					
Integrated Courses																	
1	PC/EE	20EE41P	Electric Motors	3	1	4	8	6	60	24	40	16	100	40			Both SGPA & CGPA
2	PC/EE	20EE42P	Power Electronics	3	1	4	8	6	60	24	40	16	100	40			
3	PC/EE	20EE43P	Fundamentals of Automation Technology	3	1	4	8	6	60	24	40	16	100	40			
4	PC/EE	20EE44P	Computer Aided Electrical Drafting (CAED)	3	1	4	8	6	60	24	40	16	100	40			
Audit Course																	
5	KA/EE	20EE45T	Indian Constitution	2	0	0	2	2	50	20	-	-	50	20			
Total				14	4	16	34	26	290	116	160	64	450	180			

***PC: Programme Core: AU-Audit Course:: KA: Kannada:: L: Lecture:: T: Tutorial:: P: Practice**

CURRICULUM STRUCTURE

V Semester Scheme of Studies - Diploma in Electrical & Electronics Engineering [C-20]

Pathway	Course Category / Teaching Department	Course Code	Pathway Title	Hours per Semester			Total contact hrs	Credits	CIE Marks		SEE-1 Marks (Theory)		SEE-2 Mark (Practical)		Total Marks	Min Marks for Passing (including CIE marks)	Assigned	Grade Point	SGPA and CGPA
				L	T	P			Max	Min	Max	Min	Max	Min					
Programme Specialization Pathway																			
1	EE Specialization pathways in emerging areas Student may select any one of the specializations	20EE51I	Industrial Automation	104	52	312	468	24	240	96	60	24	100	40	400	160			
		20EE52I	Power Engineering	104	52	312	468	24	240	96	60	24	100	40	400	160			
		20EE53I	Renewable Energy	104	52	312	468	24	240	96	60	24	100	40	400	160			
		20EE54I	Electrical Utility Engineering	104	52	312	468	24	240	96	60	24	100	40	400	160			
Science and Research Pathway				L	T	P	Total	Credits	CIE Marks		SEE Marks								
2	BS/SC/EE Specialization pathway in Science and Research (Student need to take all four papers in this pathway)	20SC51T	Paper 1-Applied Mathematics	52	26	0	78	6	50	20	50	20	100	40					
		20SC52T	Paper 2 - Applied Science	52	0	52	104	6	50	20	50	20	100	40					
		20RM53T	Paper 3 - Research Methodology	52	0	52	104	6	50	20	50	20	100	40					
		20TW54P	Paper 4 - Technical Writing	39	13	52	104	6	60	24	40	16	100	40					
			Total	195	39	156	390	24	210	84	190	76	400	160					
Entrepreneurship Pathway																			
3	ES/EE	20ET51I	Entrepreneurship and Start up	104	52	312	468	24	240	96	160	64	400	160					

L:- Lecture T:- Tutorial P:- Practical BS- Basic Science:: ES-Engineering Science:: SC: Science , I: Integrated

Note: In 5th Semester student need to select any one of the pathways consisting of 24 credits

Students can continue their higher education irrespective of the Pathway selected

CURRICULUM STRUCTURE

VI Semester Scheme of Studies - Diploma in Electrical & Electronics Engineering [C-20]

Pathway	Course Category / Teaching Department	Course Code	Pathway	Course		Total contact	Credits	CIE Marks		SEE Marks		Total Marks	Min Marks for Passing	Assigned Grade	Grade	SGPA and CGPA
								Max	Min	Max	Min					
Internship	ES/EE	20EE61S	Specialisation pathway	Internship/ project	40 Hours / week Total 16 Weeks	640	16	240	96	160	64	400	160			
		20EE61R	Science and Research Pathway	Research project	40 Hours / week Total 16 Weeks	640	16	240	96	160	64	400	160			
		20EE61E	Entrepreneurship and Startup pathway	Minimum Viable Product - MVP/ Incubation/ Startup proposal	40 Hours / week Total 16 Weeks	640	16	240	96	160	64	400	160			

Note : Student shall undergo Internship/Project/research project/MVP/Incubation/Startup proposal in the same area as opted in 5th semester pathway