CURRICULUM STRUCTURE

I Semester Scheme of Studies - Diploma in Electronics & Communications Engineering [C-20] CIE SEE SGPA and CGPA Hours per week contact hrs Assigned Grade Course Category Min Marks for Marks Marks **Total Marks** Grade Point (including Course Code Course Title T Min Max Min Max Total THEORY COURSES ES/EC 20EC11T **Digital Electronics** 20 50 20 50 40 0 0 100 PRACTICAL COURSES Semester BS/SC 20SC02P **Statistics and Analytics** 2 0 6 4 60 24 40 16 100 40 Computer Aided Engineering ES/ME 20ME02P 0 6 4 60 24 40 16 100 40 **Graphics** SGPA for ES/EE/EC Fundamentals of Electrical & 20EC01P 0 4 60 24 40 16 100 40 Electronics Engineering. AUDIT COURSES Only AU/SC 20AU01T **Environmental Sustainability** 0 50 20 AU Sports/NCC/NSS/Youth Red Student shall enrol in any one of these activities in 1st semester and shall participate actively. The Physical student shall obtain 'Participation Certificate' in the activity to get eligible for the award of Diploma. Cross/Yoga/ Technical club. Activity **Total** 14 0 12 24 18 270 108 180 72 180

T:- Theory P:- Practical D:- Drawing E:- ElectiveBS- 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. 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).
- 3. Theory course Semester End Examination (SEE) is conducted for 100 marks (3 Hours duration)
- 4. Practical course CIE and SEE is conducted for 100 marks (3 Hours duration)

		II Seme	ster Scheme of Studies - Dipl	oma	in	Elect	tronic	cs &C	Comm	unica	ation	sEng	ginee	ring	[C-2	?0]	
Sl. No	gory 1g nt	Course Code	Course Title		s per	week	act		CIE Marks		SEE Marks			for	rade	int	þ
	Course Category / Teaching Department	Departme		L T P		Total contact hrs/week	Credits	Max	Min	Max	Min	Total Marks	Min Marks for Passing	Assigned Grade	Grade Point	SGPA and	
	THEORY COURSES																
1	SC/EC	20PM01T	Project Management Skills	2	0	4	6	4	50	20	50	20	100	40			
2	BS/SC	20SC01T	Engineering Mathematics	4	0	0	4	4	50	20	50	20	100	40			ster
			PRA	CTIC	CAL	COU	RSES	•									Semester
3	EG/SC /EC	20EG01P	Communication Skills	2	0	4	6	4	60	24	40	16	100	40			of 2nd Sc
4	ES/CS	20CS01P	IT Skills	2	0	4	6	4	60	24	40	16	100	40			CGPA
5	ES/EC	20EC21P	Electronic Components & Devices	2	0	4	6	4	60	24	40	16	100	40			SGPA &
				UDI	CC	URS	ES										S
6	AU/KA	20KA21T	Kannada-I/ಸಾಹಿತ್ಯಸಿಂಚನ I /ಬಳಕೆಕನ್ನಡ - ।	2	0	0	2	2	50	20	1	-	50	20			
			Total	12	0	20	32	22	340	136	210	84	550	220			

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)



DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION

Curriculum Structure

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

			Course Name	Hou	ırs per w	eek	s		CII Mar		SE Mar			gu			
Sl. No.	Course Category / Teaching Department	Course Code		L	Т	Р	Total contact hrs /week	Credits	Max	Min	Max	Min	Total Marks	Min Marks for Passing (including CIE marks)	Assigned Grade	Grade Point	SGPA and CGPA
	Integrated Courses																
1	PC/EC	20EC31P	Analog Electronics	3	1	4	8	6	60	24	40	16	100	40			
2	PC/EC	20EC32P	Logic Design using Verilog	3	1	4	8	6	60	24	40	16	100	40			CGPA
3	PC/EC	20EC33P	Communication Systems	3	1	4	8	6	60	24	40	16	100	40			∞
4	PC/EC	20EC34P	Electronic Measurements and Testing Techniques	3	1	4	8	6	60	24	40	16	100	40			Both SGPA
					Audi	it Cour	se					•					Bo
5	AU/KA	20KA31T	ಸಾಹಿತ್ಯ ಸಿಂಚನ-॥/ ಬಳಕೆ ಕನ್ನಡ-॥	2	0	0	2	2	50	20	-	-	50	20			
Total					4	16	34	26	290	116	160	64	450	180			

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



Government of Karnataka DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION

Curriculum Structure

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

	/ /		Course Name	Hours per week			s.		CI Mar		SEE Marks			ing			
Sl. No.	Course Category , Teaching Department	Course Code		L	Т	Р	Total contact hrs /week	Credits	Max	Min	Max	Min	Total Marks	Min Marks for Passing (including CIE marks)	Assigned Grade	Grade Point	SGPA and CGPA
	Integrated Courses																
1	PC/EC	20EC41P	PCB Design & Fabrication	3	1	4	8	6	60	24	40	16	100	40			
2	PC/EC	20EC42P	Wireless Communication	3	1	4	8	6	60	24	40	16	100	40			CGPA
3	PC/EC	20EC43P	Embedded C Programming	3	1	4	8	6	60	24	40	16	100	40			જ
4	PC/EC	20EC44P	Industrial Automation	3	1	4	8	6	60	24	40	16	100	40			Both SGPA
					Audi	it Cour	se					•		•		•	Bo
5	AU/EC	20EC45T	Indian Constitution	2	0	0	2	2	50	20	-	-	50	20			
	Total					16	34	26	290	116	160	64	450	180			

^{*}PC: Programme Core:: AU-Audit Course:: L: Lecture:: T: Tutorial:: P: Practice

	<u>CURRICULUM STRUCTURE</u> V Semester Scheme of Studies - Diploma in Electronics & Communication Engineering [C-20]																		
ay) ant	Course Code	Pathway Title	Hours per Semester					CIE Marks		SEE-1 Marks (Theory)		SEE-2 Mark (Practical)			cs for ng ng CIE s)	Grade	oint	CGPA
Pathway	Course Category / Teaching Department			L	T	P	Total contact hrs /Semester	Credits	Max	Min	Max	Min	Max	Min	Total Marks	Min Marks for Passing (including CIE marks)	Assigned Grade	Grade Point	SGPA and CGPA
Pro	gramme Specia	alization P	athway									•							
	EC Specialization	20EC51I	1. Drone Technologies	104	52	312	468	24	240	96	60	24	100	40	400	160	60		
1	Specialization pathways in emerging areas Student may select any one of the	20EC52I	2. Industrial Internet of Things (IIoT)	104	52	312	468	24	240	96	60	24	100	40	400	160			
		20EC53I	3. Automation & Robotics	104	52	312	468	24	240	96	60	24	100	40	400	160			
	specializations	20EC54I	4. E - Mobility	104	52	312	468	24	240	96	60	24	100	40	400	160			
Scie	ence and Resea	rch Pathw	ay	L	T	P	Total	Credit		CIE Marks			SEE Marks						
											Min	Max	x Min						
	BS/SC/EC Specialization	2OSC51T	Paper 1-Applied Mathematics	52	26	0	78	6	50		20	50		20	100	40			Ą.
	pathway in Science and	20SC52T	Paper 2 – Applied Science	52	0	52	104	6	50)	20	50		20	100	40			CGPA
2	Research (Student need to	20RM53T	Paper 3 – Research Methodology	52	0	52	104	6	50)	20	50		20	100	40			2A &
	take all four papers in this	20TW54P	Paper 4 – Technical Writing	39	13	52	104	6	60)	24	40		16	100	40			SGPA
	pathway)		Total	195	39	156	390	24	21	0	84	190		76	400	160			Both
Entrepreneurship Pathway																		"	
3	ES/EC	20ET51I	Entrepreneurship and Start up	104	52	312	468	24	24	0	96	160)	64	400	160			

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

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

<u>CURRICULUM STRUCTURE</u> VI Semester Scheme of Studies - Diploma in Electronics & Communication Engineering [C-20]

Pathway	Category / ng nent	Course	Pathway	Course		Total contact	Credits	CIE Marks		SEE Marks		Total Marks	Min Marks for Passing	Assigned Grade	Grade	SGPA and CGPA
	Course Categ Teaching Department	Code						Max	Min	Max	Min					
		20EC61S	Specialisatio n pathway	Internship/ project	40 Hours / week Total 16 Weeks	640	16	240	96	160	64	400	160			
Internship		20EC61R	Science and Research Pathway	Research project	40 Hours / week Total 16 Weeks	640	16	240	96	160		160				
	ES/EC	20EC61E	Entrepreneurs hip and Start up 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.