



Government of Karnataka
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION
Curriculum Structure

III Semester Scheme of Studies- - Diploma in Electronics Instrumentation and Control 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/EI	20EI31P	Analog Circuits	3	1	4	8	6	60	24	40	16	100	40			Both SGPA & CGPA
2	PC/EI	20EI32P	Digital Electronics & Microprocessor	3	1	4	8	6	60	24	40	16	100	40			
3	PC/EI	20EI33P	Signal Conditioners & Data Converters	3	1	4	8	6	60	24	40	16	100	40			
4	PC/EI/EC	20EI34P	Power Electronics	3	1	4	8	6	60	24	40	16	100	40			
Audit Course																	
5	AU/KA	20KA31T	!೦೨#ತ%&೦೦ಚನ- ಬಳ/ೆಕನ2ಡ-	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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DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION
Curriculum Structure

IV Semester Scheme of Studies- Diploma in Electronics Instrumentation and Control 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/EI	20EI41P	Electronic Instruments and Measurements	3	1	4	8	6	60	24	40	16	100	40			Both SGPA & CGPA
2	PC/EI	20EI42P	Microcontroller and Applications	3	1	4	8	6	60	24	40	16	100	40			
3	PC/EI	20E 43P	Transducers and Instrumentation	3	1	4	8	6	60	24	40	16	100	40			
4	PC/EI	20EI44P	Instrumentation Drawing	3	1	4	8	6	60	24	40	16	100	40			
Audit Course																	
5	AU/EI	20EI45T	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:: L: Lecture:: T: Tutorial:: P: Practice**

CURRICULUM STRUCTURE

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

Pathway	Course Category / Teaching Department	Course Code	Pathway Title	Hours per Semester			Total contact	Credits	CIE Marks		SEE-1 Marks (Theory)		SEE-2 Mark (Practical)		Total Marks	Min Marksfor Passing (including)	Assigned	Grade	SGPA and CGPA
				L	T	P			Max	Min	Max	Min	Max	Min					
Programme Specialization Pathway																			Both SGPA & CGPA
1	ES/EI Specialization pathways in emerging areasStudent may select any one of the specializations	20EI51I	PCB design, Manufacturing & Assembly	104	52	312	468	24	240	96	60	24	100	40	400	160			
		20EI52I	Bio medical Instrumentation	104	52	312	468	24	240	96	60	24	100	40	400	160			
		20EI53I	Industrial Automation & Networking	104	52	312	468	24	240	96	60	24	100	40	400	160			
		20EC52I	Industrial Internet of Things (IIOT)	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								
									Max	Min	Max	Min							
2	BS/SC/EI Specialization pathway in Science and Research (Student need totake 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					
		2ORM53T	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/EI	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 :: CS: Computer Science and Engineering

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 pathways selected

VI Semester Scheme of Studies - Diploma in Instrumentation & Control 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 (including CIE marks)	Assigned Grade	Grade Point	SGPA and CGPA
								Max	Min	Max	Min					
Internship	ES/EI	20EI61S	Specialisation pathway	Internship/ project	40 Hours / week Total 16 Weeks	640	16	240	96	160	64	400	160			
		20EI61R	Science and Research Pathway	Research project	40 Hours / week Total 16 Weeks	640	16	240	96	160	64	400	160			
		20EI61E	Entrepreneurship 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