CURRICULUM STRUCTURE

I Semester Scheme of Studies - Diploma in Computer Science & Engineering [C-20]

S. N	û.o			Hours	per v	veek	hrs		10000	IE irks	SI	EE orks	2	s for CIE	ade	ı,
	Course Category / Teaching Department	Course Code	Course Title	L	Т	P	Total contact hrs /week	Credits	Max	Min	Max	Min	Total Marks	Min Marks Passing (including C	Assigned Grade	Grade Point
				THE	DRY	CO	URSE	S	40 E					9		
1	BS/SC	20SC01T	Engineering Mathematics	4	0	0	4	4	50	20	50	20	100	40		
2	ES/CS	20CS11T	Fundamentals of Computer	4	0	0	4	4	50	20	50	20	100	40		
			F	RACT	ICA	LC	OURS	ES	313 31							
3	ES/EE/EC	20EC01P	Fundamentals of Electrical & Electronics Engineering	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		
		M.		AUL	IT (COL	JRSES				Š.	e a		.		
5	AU/SC	20AU01T	Environment Sustainability	2	0	0	2	2	50	20	24	140	50	20		
6	AU Physical Activity		Sports/NCC/NSS/Youth Red Cross/Yoga/ Technical club.											icipate activ r the award		
			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

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)

Sl. No	Course Category/ Teaching Department	Course Code	Course Title	Hou	ırs per	week	75		CIE Marks		SE Ma	V33 Y		ior ding	ıde	-	40,4
					Т	P	Total contact hrs/week	Credits	Max	Min	Max	Min	Total Marks	Min Marks for Passing (including CIE marks)	Assigned Grade	Grade Point	1400
			TH	EORY	CO	URSI	ES										
1	SC	20PM01T	Project Management Skills	2	0	4	6	4	50	20	50	20	100	40			Γ
PR	ACTICAL	COURSES															
2	BS/SC	20SC02P	Statistics and Analytics	2	0	4	6	4	60	24	40	16	100	40			
3	HS/EG/ CS	20EG01P	Communication Skills	2	0	4	6	4	60	24	40	16	100	40			
4	ES/ME	20ME02P	Computer Aided Engineering Graphics	2	0	4	6	4	60	24	40	16	100	40			
5	ES/CS	20CS21P	Multimedia & Animation	2	0	4	6	4	60	24	40	16	100	40			1
AU	DIT COU	RSES		es:					25	15.	25 2			15 0			1
6	AU/CS	20KA21T	Kannada-I/ಸಾಹಿತ್ಯ ಸಿಂಚನ – I /ಬಳಕೆ ಕನ್ನಡ – ।	2	0	0	2	2	50	20	7	SE2	50	20			
			Total	12	0	20	32	22	340	136	210	84	550	220			1

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

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 Computer Science and Engineering

	y /		se Code Course Name	Hot	ırs per w	veek	50		CI Mai	330	SEE Marks			ing			
Sl. No.	Course Category / Teaching Department	Course Code		L	Т	P	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
	The State			I	ntegra	ted Co	urses		'						, , ,		
1	PC/CS	20CS31P	Python Programming	3	1	4	8	6	60	24	40	16	100	40			163
2	PC/CS	20CS32P	Computer Hardware, Maintenance and Administration	3	1	4	8	6	60	24	40	16	100	40			CGPA
3	PC/CS	20CS33P	Computer Networks	3	1	4	8	6	60	24	40	16	100	40			SGPA &
4	PC/CS	20CS34P	Database System Concepts and PL/SQL	3	1	4	8	6	60	24	40	16	100	40			Both SG
					Aud	it Cou	rse										1
5	AU/KA	20KA31T	ಸಾಹಿತ್ಯ ಸಿಂಚನ-II/ ಬಳಕೆ ಕನ್ನಡ-II	2	0	0	2	2	50	20	я	-	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



Government of Karnataka DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION Curriculum Structure

IV Semester Scheme of Studies- Diploma in Computer Science and Engineering

	/ 6			Hot	ırs per v	veek	ęs es		CI Mai	33	SE Mar	556		ing	8		
Sl. No.	Course Category Teaching Department	Course Code	Course Name	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
	N.	\$2		I	ntegra	ted Co	urses		100	**		ten s	8)	90		\$20	
1	PC/CS	20CS41P	Data structures with Python	3	1	4	8	6	60	24	40	16	100	40	2)	87	
2	PC/CS	20CS42P	Operating System and Administration	3	1	4	8	6	60	24	40	16	100	40	10 m		CGPA
3	PC/CS	20CS43P	Object Oriented Programming and Design with Java	3	1	4	8	6	60	24	40	16	100	40	2)	82	8
4	PC/CS	20CS44P	Software Engineering principles and practices	3	1	4	8	6	60	24	40	16	100	40			th SGPA
					Aud	it Cou	se										Both
5	AU/CS	20CS45T	Indian Constitution	2	0	0	2	2	50	20	121	12	50	20	2.0		16
			Total	14	4	16	34	26	290	116	160	64	450	180	2)	(V)	3.6

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

way	itegory /	Course Code	Pathway Title		Hours per Semester		Credits	CIE Marks		SEE-1 Marks (Theory		s Mark		Yarks	Min Marks for Passing (including CIE marks)	d Grade	Point	d CGPA	
Pathway	Course Category Teaching Department			L	Т	P	Total contact hrs /Semester Credits	Max	Min	Max	Min	Max	Min	Total Marks	Min Marks (including	Assigned Grade	Grade Point	SGPA and CGPA	
Pro	gramme Spec	ialization	Pathway	57	Ö.				. S			98		3			\$ 5		
	CSE Specialization pathways in emerging areas Student may select any one of the specializations	20CS51I	Artificial Intelligence and Machine Learning	104	52	312	468	24	240	96	60	24	100	40	400	160			
1		20CS52I	2. Full Stack Development	104	52	312	468	24	240	96	60	24	100	40	400	160			
		20CS53I	3. Cloud Computing	104	52	312	468	24	240	96	60	24	100	40	400	160			
		20CS54I	4. Cyber Security	104	52	312	468	24	240	96	60	24	100	40	400	160			
Sci	ence and Rese	arch Path	way	L	T	P	Total	Credits	1	CIE Marks	s		SEE Marks	5					88
				8				ð	Ma	x	Min	Ma	ax	Min					30
	BS/SC/CSE Specialization	20SC51T	Paper 1-Applied Mathematics	52	26	0	78	6	50		20	5()	20	100	40			A
	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	20RM53T	Paper 3 – Research Methodology	52	0	52	104	6	50		20	50)	20	100	40			8
	to take all four papers in this	20TW54P	Paper 4 – Technical Writing	39	13	52	104	6	60		24	40)	16	100	40			Both SGPA
	pathway)	2)	Total	195	39	156	390	24	210	0	84	19	0	76	400	160			Bot
Ent	repreneurshi	p Pathway	y					:		8	:		3						
3	ES/CSE	20ET51I	Entrepreneurship and Start up	104	52	312	468	24	240	0	96	16	0	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 Semes	ster Scheme	of Studies - Di	iploma in (Compi	iter :	Scienc	e and	d Engi	ineer	ing [C	C-20]			
Pathway	itegory /	Course Code	Pathway	Course		Total contact	Credits	CIE Marks		SEE Marks		Total Marks	Min Marks for Passing	Assigned Grade	Grade	SGPA and CGPA
Pat	Course Category Teaching Department							Max	Min	Max	Min					
		20CS61S	Specialisatio n pathway	Internship/ project	40 Hours / week Total 16 Weeks	640	16	240	96	160	64	400	160			
Internship		20CS61R	Science and Research Pathway	Research project	40 Hours / week Total 16 Weeks	640	16	240	96	160	64	400	160			
	ES/CSE	20CS61E	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.