I Semester Scheme of Studies - Diploma in Computer Science &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/CS	20CS11T	Fundamentals of Computer	4	0	0	4	4	50	20	50	20	100	40			
			PRACTICAL COURSES														
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			
			AUDIT COURSES														
5	AU/SC	20AU01T	Environment 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 1st 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:- 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 Semester Scheme of Studies - Diploma in Computer Science & Engineering [C-20]

Sl. No	Course Category / Teaching Department	Course Code	Course Title	L	T	P	Total contact hrs/week	Credits	CIE Marks Max	CIE Marks Min	SEE Marks Max	SEE Marks Min	Total Marks	Min Marks for Passing (including CIE marks)	Assigned Grade	Grade Point	SGPA and CGPA
THEORY COURSES																	S
1	SC/CS	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 /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			
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			

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)

Government of Karnataka
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION

Curriculum Structure

III Semester Scheme of Studies- Diploma in Computer Science and 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/CS	20CS31P	Python Programming	3	1	4	8	6	60	24	40	16	100	40			Both SGPA & CGPA
2	PC/CS	20CS32P	Computer Hardware, Maintenance and Administration	3	1	4	8	6	60	24	40	16	100	40			
3	PC/CS	20CS33P	Computer Networks	3	1	4	8	6	60	24	40	16	100	40			
4	PC/CS	20CS34P	Database System Concepts and PL/SQL	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

IV Semester Scheme of Studies- Diploma in Computer Science and 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/CS	20CS41P	Data structures with Python	3	1	4	8	6	60	24	40	16	100	40			Both SGPA & CGPA
2	PC/CS	20CS42P	Operating System and Administration	3	1	4	8	6	60	24	40	16	100	40			
3	PC/CS	20CS43P	Object Oriented Programming and Design with Java	3	1	4	8	6	60	24	40	16	100	40			
4	PC/CS	20CS44P	Software Engineering principles and practices	3	1	4	8	6	60	24	40	16	100	40			
Audit Course																	
5	AU/CS	20CS45T	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

V Semester Scheme of Studies - Diploma in Computer Science and Engineering [C-20]

Pathway	Course Category / Teaching Department	Course Code	Pathway Title	Hours per Semester			Total contact hrs /Semester	Credits	CIE Marks		SEE-1 Marks (Theory)		SEE-2 Mark (Practical)		Total Marks	Min Marks for Passing (including CIE marks)	Assigned Grade	Grade Point	SGPA and CGPA
				L	T	P			Max	Min	Max	Min	Max	Min					
Programme Specialization Pathway																			
1	**CSE** Specialization pathways in emerging areas Student may select any one of the specializations	20CS51I	1. Artificial Intelligence and Machine Learning	104	52	312	468	24	240	96	60	24	100	40	400	160			Both SGPA & CGPA
		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			
Science and Research Pathway				L	T	P	Total	Credits	CIE Marks		SEE Marks								
									Max	Min	Max	Min							
2	BS/SC/CSE Specialization pathway in Science and Research **(Student need to take all four papers in this pathway)**	2OSC51T	Paper 1-Applied Mathematics	52	26	0	78	6	50	20	50	20			100	40			
		2OSC52T	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			
		2OTW54P	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/CSE	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.

									CIE Marks		SEE Marks						
Pathway	Course Category / Teaching Department	Course Code	Pathway	Course		Total contact	Credits		Max	Min	Max	Min	Total Marks	Min Marks for Passing	Assigned Grade	Grade	SGPA and CGPA
Internship	ES/CSE	20CS61S	Specialisation pathway	Internship/ project	40 Hours / week Total 16 Weeks	640	16		240	96	160	64	400	160			
		20CS61R	Science and Research Pathway	Research project	40 Hours / week Total 16 Weeks	640	16		240	96	160	64	400	160			
		20CS61E	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			

VI Semester Scheme of Studies - Diploma in Computer Science and Engineering [C-20]

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

in 5th semester pathway.