

School of Computing Science and Engineering

Program name: BSc Computer Science

Program Structure 2023-26

ASSESSMENT PATTERNS (Common for All Semesters)

COURSES

	CONTINUOUS INTERNAL EXAMINATION (CIE)							Semester End Examination (SEE)	
Rubric and Assessment Tools									
Course Type	QUIZ 1/AAT	CAT1	QUIZ2/AAT	CAT2	LAB	LAB Test	Course-based Project	Total CIE Marks	Max. Marks
Theory	20	30	20	30	0	0	0	100	100
Blended	0	30	0	30	20	20	0	100	100
Comprehensive	0	30	0	30	20	0	20	100	100

Rubric for Course-based Project

S.No.	Type of Assessment Tools	CIE Marks (Rubric)					Total
		PPP	TS1	TS2	Viva	Total	
1	Course-based Project Work	5	5	5	5	20	

PASS REQUIREMENTS

Condition1-Continuous

Internal Examination (CIE) -Should secure 30% of marks in every individual assessment in the CIE and 40% in total; otherwise not permitted to appear in SEE;

Condition2-Semester End Examination (SEE) or End Term Examination (ETE)-should secure 40% in the SEE/ETE

Condition3- The overall marks both CIE and SEE together should be more than or equal to 40% to declare pass in a Course.

*-: Students have to secure minimum 30% marks in each assessment to eligible for appearing in ETE/SEE.(minimum 3 marks in QUIZ 1/AAT and QUIZ2/AAT individually & minimum 12 marks each in both CAT1 & CAT2). Same rule applies to all assessment tools.

**:-: Student need to secure minimum 40 marks separately in ETE/SEE along with above mentioned criterion to pass the respective Course.

PPP(Preliminary Project Plan)	To submit the PPP before the Quiz1 by a group of 4 students; After Quiz-1 the course faculty should approve the PPP and permit the student group to commence the project.	The preliminary project plan (PPP) provides an initial, overview of the project and all of its known parameters. It outlines the project's objectives, relevance to the program merit, and conformity to current industry/government policy, proposed methodology, and expected outcomes. It should also include any known constraints related to the time frame (Gantt Chart).budget, and, etc.
TS1 (Technical Seminar 1)	After Quiz-1	After the second Quiz, the course faculty member should take 1st review of th status byh all the student groups
TS2 (Technical Seminar 2)	After CAT-1	After CAT1 the course faculty member should take trhe 2nd review of the status byh all the student groups
VIVA	After CAT-2	After CAT2 the course faculty member should take trhe 2nd review of the status byh all the student groups

RUBRICS

Lab	Rubrics 1 (..marks)	Rubrics 2 (..marks)	Rubrics 3 (..marks)	Rubrics 4 (..marks)	Rubrics 5 (..marks)	
Project	Rubrics 1 (..marks)	Rubrics 2 (..marks)	Rubrics 3 (..marks)	Rubrics 4 (..marks)	Rubrics 5 (..marks)	To be defined by the respective faculty handling the course

Program Structure 2022-23

First Semester

			Credit Structure						Not to include in the program structure file (Only for Reference)		
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	Instruction Components	Credits	Contact Hours/week
1	E1UJ104T	Discrete Mathematics	3	1	0	0	4	4	L	1	1
2		Open Elective-I	3	0	0	0	3	3	T	1	1
3	E1UJ101B	Computer System Organization	3	0	1	0	4	5	P	1	2
4		Vocational Elective-I	3	0	1	0	4	5	S	1	3
5	E1UJ102C	Programming for Problem Solving	3	0	1	1	5	8			
6		Co-Curriculum Elective-I	0	0	0	0	0	2			
Total credits							20	27			

Second Semester											
			Credit Structure								
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours			
1		Open Elective-II	3	0	0	0	3	3			
2	E1UJ201B	Data Structure Using C	3	0	1	0	4	5			
3	E1UJ202B	Operating System	3	0	1	0	4	5			
4		Vocational Elective-II	3	0	1	0	4	5			
5	E1UJ201C	OOPS using Java	3	0	1	1	5	8			
6		Co-Curriculum Elective-II	2	0	0	0	0	2			
7	E1UJ201R	Industrial Training / Internship / Research Internship-I	0	0	0	0	2	4			
Total credits							22	32			

Third Semester											
			Credit Structure								
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours			
1		Open Elective-III	3	0	0	0	3	3			
2		Database Management System	3	0	1	0	4	5			

3		Design and Analysis of Algorithms	3	0	1	0	4	5
4		Vocational Elective-III	3	0	1	0	4	5
5		Programming in Python	3	0	1	1	5	8
6		Co-Curriculum Elective-III	0	0	0	0	0	2
Total credits							20	28

Fourth Semester								
			Credit Structure					
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	E1UJ402B	Computer Networks	3	0	1	0	4	5
2	E1UJ401B	Software Engineering	3	0	1	0	4	5
3		Vocational Elective-IV	3	0	1	0	4	5
4	E1UJ401C	Web Technology	3	0	1	1	5	8
5		Co Curriculum Elective-IV	0	0	0	0	0	2
6	E1UJ401R	Industrial Training / Internship / Research Internship-II	0	0	0	0	2	4
Total credits							19	29

Fifth Semester								
			Credit Structure					
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1		Data Warehousing and Data Mining	3	0	1	0	4	5
2		Campus to Corporate	3	0	1	0	4	5
3		Professional Elective-I	3	0	1	0	4	5
4		Android Application Developmet	3	0	1	1	5	8
5		Capstone Project	0	0	5	0	5	10
Total credits							22	33

Sixth Semester								
			Credit Structure					
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours

1		Software Quality Management	3	0	1	0	4	5
2		Artificial Intelligence and Machine Learning	3	0	1	0	4	5
3		Professional Elective-II	3	0	1	0	4	5
4		Creativity, Innovation & Entrepreneurship	3	0	0	0	0	3
5		Capstone Project	0	0	0	0	5	0
Total credits							17	18

Seventh Semester									
			Credit Structure						
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	
1		Internet of Things	3	0	1	0	4	5	
2		Research Methodology	3	0	1	0	4	5	
3		Professional Elective-III	3	0	1	0	4	5	
4		Research Project-I	0	0	0	0	8	0	
Total credits							20	15	

Eighth Semester									
			Credit Structure						
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	
1		Technical Seminar and Research Paper Writing	3	0	0	0	3	3	
2		IPR	3	0	0	0	3	3	
3		Research Project-II	0	0	0	0	12	0	
Total credits							18	6	

Professional Elective-I									
			Credit Structure						
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours	
1		Agile Methodology	3	0	1	0	4	5	
2		Big Data Technologies	3	0	1	0	4	5	
3		Probability for Data Science	3	0	1	0	4	5	
4		Cyber Security and Cyber Laws	3	0	1	0	4	5	

Professional Elective-II								
			Credit Structure					
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1		Data analysis and handling	3	0	1	0	4	5
2		Ad hoc & Sensors Networks	3	0	1	0	4	5
3		Operational Research for Computer Science	3	0	1	0	4	5
4		Soft Computing	3	0	1	0	4	5

Professional Elective-III								
			Credit Structure					
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1		Data Mining and Business Intelligence	3	0	1	0	4	5
2		BlockChain	3	0	1	0	4	5
3		Software Testing	3	0	1	0	4	5

Co-Curriculum Elective-I/II								
			Credit Structure					
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1	C2UF102T/CU2 F221T	Food Nutrition and Hygiene/First Aid and Health	0	0	0	0	0	2

Co-Curriculum Elective-III/IV								
			Credit Structure					
Sl. No.	Course Code	Course Title	L	T	P	S	Credits	Hours
1		Professional Ethics & Human values/ Environmental Studies	0	0	0	0	0	2

Courses offered under Vocational category for the programmes which follow NEP 2020											
Sem	Course code	course name	L	T	P	S	Credits	Hours		Offered by School	Division
1	E1UA103B	HTML and CSS	3	0	1	0	4	5		SCSE	Web Desgining (Track-19)
2	E1UJ203B	Javascript and PHP	3	0	1	0	4	5			
3		User Interface Design	3	0	1	0	4	5			

4	E1UA402B	Full Stack Development using React and Node JS	3	0	1	0	4	5		
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Sem	Course code	course name	L	T	P	S	Credits	Hours		School	Division
1	D1UA102B	Data Analysis	3	0	1	0	4	5		SOB	Management (Track-21)
2	D1U1220B	AI for Managers	3	0	1	0	4	5			
3		Stock Market Analysis	3	0	1	0	4	5	0		
4		FlnTECH	3	0	1	0	4	5	0		

Open Elective-I/II/III										
			Credit Structure							
Semester	Course Code	Course Title	L	T	P	S	Credits	Hours		
I	E2UC101T	Decision Making with Spreadsheet	3	0	0	0	3	3		
II	K1UC221T/K1UC222T/K1UC223T	Elements of Literature and Creative Communication/Training and Development/ English Language for Competitive Exams	3	0	0	0	3	3		
III		To be decided	3	0	0	0	3	3		