

School of Computing Science & Engineering

Program name: BCA

Program Structure 2022-23

ASSESSMENT PATTERNS (Common for All Semesters)

COURSES

CONTINUOUS INTERNAL EXAMINATION (CIE)								Semester End Examination (SEE)	
Rubric and Assessment Tools								Total CIE Marks	Max. Marks
Course Type	QUIZ 1/AAT	CAT1	QUIZ2/AAT	CAT2	LAB	LAB Test	Course-based Project		
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)	To be defined by the respective faculty handling the course
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 2023-26

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		Open Elective-I	3	0	0	0	3	3	L	1	1
2	E1UA101B	Fundamentals of Digital Computers	3	0	0	0	3	3	T	1	1
3	E1UA102B	Foundation of Computer Applications	3	0	0	0	3	3	P	1	2
4		Vocational Elective-I	3	0	1	0	4	5	S	1	3
5	E1UA103C	Programming Paradigm and problem solving	3	0	1	1	5	8			
6		Co-Curriculum Elective-I	2	0	0	0	0	2			
Total credits							18	24			

Second Semester								
Sl. No.	Course Code	Course Title	Credit Structure				Credits	Hours
			L	T	P	S		
1	E1UJ204T	Discrete Mathematics	3	0	0	0	3	4
2		Open Elective-II	3	0	0		3	3
3	E1UA201B	Data Structure	3	0	1	0	4	5
4		Vocational Elective-II	3	0	1	0	4	5
5	E1UA201C	Object Oriented Programming using C++	3	0	1	1	5	8
6		Co-Curriculum Elective-II	2	0	0	0	0	2
Total credits							19	27

Third Semester								
Sl. No.	Course Code	Course Title	Credit Structure				Credits	Hours
			L	T	P	S		
1		Open Elective-III	3	0	0	0	3	3
2		Operating System with Linux	3	0	1	0	4	5
3		Database Management System	3	0	1	0	4	5
4		Vocational Elective-III	3	0	1	0	4	5
5		Python Programming	3	0	1	1	5	8
6		Co-Curriculum Elective-III	2	0	0	0	0	2
Total credits							20	28

Forth Semester								
Sl. No.	Course Code	Course Title	Credit Structure				Credits	Hours
			L	T	P	S		
1	E1UA401T	Software Engineering & Testing	3	0	0	0	3	3
2	E1UA402T	Foundation of Big data	3	0	0	0	3	3
3	E1UA401B	Computer Networks	3	0	1	0	4	5
4		Vocational Elective-IV	3	0	1	0	4	5
5	E1UA401C	Web Technology	3	0	1	1	5	8
6		Co-Curriculum Elective-IV	2	0	0	0	0	2
	E1UA401R	Industrial Training	0	0	2	0	2	4
Total credits							21	30

Fifth Semester								
Sl. No.	Course Code	Course Title	Credit Structure				Credits	Hours
			L	T	P	S		
1		Foundation of Internet of Things (IoT)	3	0	0	0	3	3
2		Algorithm analysis and Design	3	0	1	0	4	5
3		Campus to Corporate	2	0	1	0	3	4
4		Professional Elective -I	3	0	0	0	3	3
5		Java Programming	3	0	1	1	5	8
6		Project Work	0	0	3	0	3	6
Total credits							21	29

Sixth Semester								
Sl. No.	Course Code	Course Title	Credit Structure				Credits	Hours
			L	T	P	S		
1		MOOC Subject	3	0	0	0	3	3
2		Capstone Project	0	0	12	0	12	24
Total credits							15	

Total Credit 114

Co-Curriculum Electives									
BCA									
SN.	Course Code	Course Name	Credit Structure				Credits	Total hrs	SEM
			L	T	P	S			
1	C2UF102T/	Food, Nutrition and Hygiene/ First aid and health	2	0	0	0	0	2	I/II
2	K1UE421T	Professional Ethics & Human values/ Environmental Studies	2	0	0	0	0	2	III/IV

List of Professional Electives-I for Semester- V								
Sl No	Course Code	Name of the Electives (Choose one)	Credit Structure				Credits	Total hrs
			L	T	P	S		
1	B070503T	Agile Methodology	3	0	0	0	3	3
2	B070504T	Android App Development	3	0	0	0	3	3
3	B070505T	Data Analytics	3	0	0	0	3	3

Courses offered under Vocational category for the programmes which follow NEP 2020											
Sem	Course code	course name	L	T	P	C	IA	CAT	ETE	School	Division
1	E1UA103B	HTML & CSS	2	0	2	3	20	15	30	SCSE	Web Desgining (Track-19)
2	E1UJ203B	Java Script & PHP	2	0	2	3	20	15	30		
3	I190301T	User Interface Design	2	0	2	3	20	15	30		
4	E1UA402B	Full Stack Development using	2	0	2	3	20	15	30		

Sem	Course code	course name	L	T	P	C	IA	CAT	ETE	School	Division
1	D1UA102B	Data Analysis	3	0	0	3	20	15	30	SOB	Management (Track-21)
2	I210201T	AI for Managers	3	0	0	3	20	15	30		
3	I210301T	Stock Market Analysis	3	0	0	3	20	15	30		
4	I210401T	FinTECH	3	0	0	3	20	15	30		

Courses offered under Open Elective category for the programmes which follow NEP 2020											
Sem	Course code	course name	L	T	P	C	IA	CAT	ETE	School	
1	E2UC101T	Decision Making with Spreadsheet	3	1	0	4	20	30	50	DCSE	
2	K1UC221T	Elements of Literature and Creative Communication	3	0	0	3	20	40	50	NPTEL	
	K1UC222T	Training and Development	3	0	0	3	20	40	50	NPTEL	
	K1UC223T	English Language for Competitive Exams	3	0	0	3	20	40	50	NPTEL	