Sharnbasva University, Kalaburagi

Faculty of Engineering and Technology (Co-Ed)
Scheme of Teaching and Examination
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2023-24)

Programme: B.Tech: Computer Science and Design

III SEMESTER

Sl. No.		Course Code	Course Title	Teaching Department	Teaching Hours/week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BS	22MATS31	Mathematics for Computer Science	Mathematics	3			3	50	50	100	03
2	PCC	22CS32	Digital Design and Computer Organization	CSE/ECE	3	1		3	50	50	100	04
3	PCC	22CS33	Data Structures and Applications	CSE	2	1		3	50	50	100	03
4	PCC	22CS34	Operating Systems	CSE	2	1		3	50	50	100	03
5	PCC	22CS35	Object-oriented Program with JAVA	CSE	1	1		3	50	50	100	03
6	PCC	22CSL36	Data Structures and Applications Laboratory	CSE			2	3	50	50	100	01
7	PCC	22CSL37	Operating System Laboratory	CSE			2	3	50	50	100	01
8	PCC	22CSL38	Object-oriented Program with JAVA Laboratory	CSE			2	3	50	50	100	01
9	PW	22PRJ39	Project-III	CSE			2	3	50	50	100	01
10	HSS	22HSM310A	Soft Skills and Personality Development	Humanities	1			2	50	50	100	01
11	AEC	22AEC311X	Ability Enhancement Course-III	CSE			2	3	50	50	100	01
Total					12	4	10	32	550	550	1100	22

Note: BS-Basic Science, PCC- Programme Core Course, PW-Project Work, AEC- Ability Enhancement Course, HSS-Humanity and Social Science, NCMC-Non-Credit Mandatory

Course												

Project (PRJ): Based on the ability /abilities of the student/s and recommendations of the mentor, a single discipline or multidisciplinary mini project can be assigned to an individual student or to a group having not more than 4 students.

Ability Enhancement Course-3

Course code under 22AEC311X	Course Title
22AEC3111	Unix and Shell Programming
22AEC3112	Scilab

Courses prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

12	NCMC	23MATDIP31	Additional Mathematics – I	Mathematics	3	1	-	3	00	100	100	00

1) Non-Credit Mandatory Courses (NCMC) Additional Mathematics-I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of B. Tech. programs shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the university examination. In case any student fails to register for the said course/fails to secure the minimum 50% of the prescribed CIE marks, he/she shall be deemed to have secured an F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

2) These courses shall not be mandatory for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B.Sc. degree holders admitted to III semesters of Engineering programs

Lateral entry students from B.Sc. stream shall clear the non-credit courses Computer Aided Engineering Drawing, Elements of Civil Engineering of First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of a degree.

AICTE Activity Points to be earned by students admitted to B.Tech. program (For more details refer to Chapter 6, AICTE Activity Point Programme, Model Internship Guidelines):

Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree program through lateral entry, shall earn 100 and 75 Activity points respectively for the award of a degree through AICTE Activity Point Programme. Students transferring from other universities to the fifth semester are required to earn 50 activity points from the year of entry to Sharnbasva University. The Activity Points earned shall be reflected on the student's eighth semester Grade card.

The activities can be spread over the years, anytime during the semester weekends holidays, as per the liking and convenience of the student from the year of entry to the programme. However, the minimum hours requirement should be fulfilled. Activity Points (noncredit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.

In case students fail to earn the prescribed activity points, eighth semester Grade Card shall be issued only after earning the required activity points. Student shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

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Programme: B.Tech: Computer Science and Design

IV SEMESTER

Sl. No.		Course Code	Course Title	Teaching Department	Teaching Hours/ eek			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in Hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BS	22MATS41	Mathematics for CSS- IV	Mathematics	3			3	50	50	100	03
2	PCC	22CS42	Analysis and Design of Algorithms	CSE	3	1		3	50	50	100	03
3	PCC	22CS43	Database Management Systems	CSE	2	1		3	50	50	100	03
4	PCC	22CS44	Python Application Programming	CSE	2	1		3	50	50	100	03
5	PCC	22CS45	Automata Theory and Computability	CSE	1	1		3	50	50	100	03
6	PCC	22CSL46	Algorithms Lab	CSE			2	3	50	50	100	01
7	PCC	22CSL47	Database Management Lab	CSE			2	3	50	50	100	01
8	PCC	22CSL48	Python Lab	CSE			2	3	50	50	100	01
9	PW	22PRJ49	Project-IV	CSE			2	3	50	50	100	01
10	HSS	22UHV410	Universal Human Values	Humanities	1			2	50	50	100	01
11	AEC	22AEC411X	Ability Enhancement Course-IV	CSE			2	3	50	50	100	01
			Total		**12**	**4**	**10**	**32**	**550**	**550**	**1100**	**21**

Note: BS-Basic Science, PCC- Programme Core Course, PW-Project Work, AEC- Ability Enhancement Course, HSS-Humanity and Social Science, NCMC-Non-Credit Mandatory Course

Project (PRJ): Based on the ability /abilities of the student/s and recommendations of the mentor, a single discipline or multidisciplinary mini project can be assigned to an individual student or to a group having not more than 4 students.

Ability Enhancement Course-4

Course code under 22AEC411X	Course Title
22AEC4111	Node JS and Angular JS
22AEC4112	XML Programming

Courses prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

10	NCMC	23MATDIP41	Additional Mathematics – II	Mathematics	3	1	-	3	00	100	100	00

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4) These courses shall not be mandatory for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B.Sc. degree holders admitted to III semester of Engineering programs

Lateral entry students from B.Sc. stream, shall clear the non-credit courses Computer Aided Engineering Drawing, Elements of Civil Engineering of First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

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