

PROGRAMME STRUCTURE

FIRST SEMESTER

Slno	Course Code	Name of the Course	Hours			Marks		Credits
			L	T	P	Internal	End Semester	
1	25-493-0101	Communication Skills Development (G-T)	3			50	50	3
2	25-493-0102	Fundamentals of Management (G-T)	3			50	50	3
3	25-493-0103	Object Oriented Programming and Web Technologies (G-P)	3		2	50	50	4
4	25-493-0104	Product Engineering (D-T)	4			50	50	4
5	25-493-0105	Algorithm and Data Structures (D-P)	2	1	2	50	50	4
6	25-493-0106	Database and Backend Technologies (D-P)	2	1	2	50	50	4
7	25-493-0107	Full stack Development (MERN Stack) (D-P)	2	1	2	50	50	4
8	25-493-0108	Software Lab I (Web, Kotlin, Git & SQL) (LAB)			8	50	50	4
		Total				400	400	30

SECOND SEMESTER

Slno	Course Code	Name of the Course	Hours			Marks		Credits
			L	T	P	Internal	End Semester	
1	25-493-0201	Project Management (G-T)	3			50	50	3
2	25-493-0202	Android App Development - Kotlin & XML (D-P)	3		2	50	50	4
3	25-493-0203	Android App Development - JetPack Compose (D-P)	3		2	50	50	4
4	25-493-0204	Cloud and Advanced Technologies (D-P)	1		4	50	50	3
5	XX-XXX-XXXX	Elective – I (G-T/D- T) *	3			50	50	3
6	25-493-02XX	Elective – II (D-T)	3			50	50	3
7	25-493-0207	Software Lab II (Android & Cloud) (LAB)			4	50	50	2
8	25-493-0208	Internship – Android/Web App Development	40 Working days			50	50	8
		Total				400	400	30

* Any general interdisciplinary subject may be considered for XX-XXX- XXXX apart from the list of electives given

XX– is the unique two-digit number of the particular elective course from the list of elective courses

THIRD SEMESTER

Slno	Course Code	Name of the Course	Hours			Marks		Credits
			L	T	P	Internal	End Semester	
1	25-493-0301	Entrepreneurship and New Venture Planning (G-T)	3			50	50	3
2	25-493-0302	Agile Process Management. (G-T)	3			50	50	3
3	25-493-0303	Programming with Swift (D-P)	3		2	50	50	4
4	25-493-0304	iOS App Development- SwiftUI Framework (D-P)	3		2	50	50	4
5	25-493-0305	Applied Technologies in iOS (D-P)	3		2	50	50	4
6	25-493-03XX	Elective – III	3			50	50	3
7	25-493-03XX	Elective – IV	3			50	50	3
8	25-493-0308	Software Lab III (iOS & Swift) (LAB)			6	50	50	3
9	25-493-0309	Professional Skills Development (Training Programme) (G-T)	2		2	100		3
		Total				500	400	30

* Any Cross Platform Technology may be considered for Elective – III (G- T/D-T)

XX– is the unique two-digit number of the particular elective course from the list of elective courses

FOURTH SEMESTER

Slno	Course Code	Name of the Course	Hours			Marks		Credits
			L	T	P	Internal	End Semester	
1	25-493-0401	* Main Internship (90 working days during Semester IV in an IT firm where students contribute to a live iOS/Android/Cross-platform/Web application development) and Viva voce (Continuous Assessment – 100 marks, Final report – 100 marks & Viva-Voce – 100 marks)				100	200	28
2	25-493-0402	MOOC courses from the list of courses shortlisted from the list of NPTEL/SWAYAM courses (or MOOC COURSES recognized by UGC), or CUSAT MOOC portal and approved by the academic committee, with a duration of not less than eight weeks					100	2
		Total				100	300	30

GT: General Theory, G-P: General Practical, D-T: Domain Theory, D-P: Domain Practical.

*The objective of Major Project is to provide students with practical exposure to the world of Software Application Development whereby they get an opportunity to apply the knowledge and skill acquired throughout the course. The students are required to undertake the internship training with an organization. The project should be live (under development) or modification of existing work and should be based on Software Application Development (Web, Android, iOS) and related technologies. The project will be for 90 working days. Each student will be allotted to a faculty guide for the internship.