Programme: B.C.A.,

Semester-wise Distribution of Courses, Credits and Contact Hours

Sem	Part	Course Type	Course Code	Course Title	Contact Hrs.	Credits	Marks		Total Marks
							Int.	Ext.	
I	I	Language Tamil / Hindi	24UGT101/ 24UGH101	Tamil Illakkiya Varalaru-I/ Hindi - I	6	3	25	75	100
	II	English	24UGE201	General English - I	6	3	25	75	100
	III	Core Course I	24UCP401	Principles of Programming with C	4	4	25	75	100
		Core Course II	24UCP402	Digital Computer Fundamentals	4	4	25	75	100
		Core Laboratory I	24UCP451	Principles of Programming with C Lab	4	2	40	60	100
		Allied Course I	24UMA301	Introduction to Discrete Mathematics	4	3	25	75	100
	IV	Foundation Course	24UFO901	Value Education	2	2	25	75	100
Total					**30**	**21**	**-**	**-**	**700**
II	I	Language Tamil / Hindi	24UGT102/ 24UGH102	Tamil Illakkiya Varalaru – II / Hindi - II	6	3	25	75	100
	II	English	24UGE202	General English - II	6	3	25	75	100
	III	Core Course III	24UCA501	Object Oriented Programming with Java	4	4	25	75	100
		Core Laboratory II	24UCA551	Object Oriented Programming with Java Lab	4	2	40	60	100
		Allied Course II	24UMA304	Linear Algebra and Calculus	4	3	25	75	100
		Allied Practice I	24UMA356	Probability and Statistics Practice	4	2	40	60	100
			24UCA591	Field Work	-	2	40	60	100
	IV	Foundation Course	24UFC905	Environmental Studies	2	2	25	75	100
Total					**30**	**21**	**-**	**-**	**800**
III	I	Language Tamil / Hindi	24UGT103/ 24UGH103	Tamilaga Varalarum Panpadum / Hindi - III	6	3	25	75	100
	II	English	24UGE203	General English - III	6	3	25	75	100
	III	Core Course - IV	24UCP403	Python Programming	4	4	25	75	100
		Core Course - V	24UCP404	Data Structures and Algorithms	4	4	25	75	100
		Core Laboratory III	24UCP452	Python Programming Lab	4	2	40	60	100
		Allied Course III	24UPH303	Semi-Conductor Devices and its Applications	3	3	25	75	100
	IV	Ability Enhancement	24UAB361	Life Skills Management	2	2	25	75	100
	V		24UHW951	Health & Wellness	1	1	-	-	100
Total					**30**	**22**	**-**	**-**	**800**
IV	I	Language Tamil / Hindi	24UGT104/ 24UGH104	Tamilum Ariviyalum/ Hindi - IV	6	3	25	75	100
	II	English	24UGE204	General English - IV	6	3	25	75	100

	III	Core Course VI	24UCA502	Web Programming	4	4	25	75	100
		Core Laboratory IV	24UCA552	Web Programming Lab	4	2	40	60	100
		Allied Course IV	24UPH304	Digital Circuits and Memories	4	3	25	75	100
		Allied Laboratory II	24UPH352	Digital Electronics Lab	4	2	40	60	100
			24UCA592	Internship	-	2	40	60	100
	IV	Ability Enhancement	24UAB371	Soft and Quantitative Skills	2	2	25	75	100
Total					**30**	**21**	**-**	**-**	**800**
V	III	Core Course VII	24UCA503	SQL and Contemporary Database Techniques	4	4	25	75	100
		Core Course VIII	24UCA504	Data Communication and Networking	4	4	25	75	100
		Core Course IX	24UCA505	Version Control Systems	4	4	25	75	100
		Core Course X	24UCA506	Software Project Development	4	4	25	75	100
		Core Laboratory V	24UCA553	Version Control Systems Lab	4	2	40	60	100
		Discipline Centric Elective I	-	Choose a knowledge course from any one track	4	4	25	75	100
		Discipline Centric Elective Laboratory I	-	Choose a skill course from the selected track	4	2	40	60	100
	IV	Ability Enhancement	24UCA381	AI Interfaces	2	2	40	60	100
Total					**30**	**26**	**-**	**-**	**800**
VI	III	Core Course XI	24UCA507	Machine Learning and Applications	5	4	25	75	100
		Core Course XII	24UCA508	Cloud Services	5	4	25	75	100
		Core Laboratory VI	24UCA554	Machine Learning and Applications Lab	4	2	40	60	100
		Generic/ Cluster Elective I	-	Choose a generic elective course offered by either the Computer Science or Information Technology departments.	4	4	25	75	100
		Discipline Centric Elective II	-	Choose a professional course from the selected track	4	4	25	75	100
			24UCA593	Project	5	5	40	60	100
		Open (Interdisciplinary) Elective I	-	Choose an open elective course offered by other departments	3	3	25	75	100
Total					**30**	**26**	**-**	**-**	**700**
	V			Co-curricular Activities	-	1			-
				Extra-curricular Activities	-	1			-
				Extension Activities	-	1			-
					-	**3**			-

TOTAL CREDITS: 21+21+22+21+26+26+3 = 140 Credits

TOTAL MARKS: 700+800+800+800+800+700 = 4600 Marks

Elective Courses (Optional)

Generic Elective Courses (Choose anyone course)

- 24UCP601: Virtual Reality and Augmented Reality
- 24UCP602: Explainable AI
- 24UCP603: Contemporary Computing Techniques
- 24UCP604: Data Intelligence Methods
- 24UCP605: Computer Vision in Cloud and Network Systems

Discipline Centric Elective Courses (Choose anyone track)

Track1: Higher Studies

- 24UCA701: Distributed Technologies
- 24UCA751: Distributed Technologies Lab
- 24UCA702: Block Chain Technology

Track2: Employment - Mobile Application

- 24UCA703: K: Mobile Application Development
- 24UCA752: S: Mobile Application Development Lab
- 24UCA704: P: Game Development

Track3: Employment - Software Testing

- 24UCA705: K: Software Testing
- 24UCA753: S : Software Testing Tools Lab
- 24UCA706: P: Agile Software Development

Track 4: Employment - Information Security

- 24UCA707: K: Information Security
- 24UCA754: S: Practice in Security Tools and Technologies
- 24UCA708: P: Information Security and Privacy in Smart Devices

Track 5: Employment - Business Applications

- 24UCA709: K: Digitalization for Business
- 24UCA755: S: Practice in Digital Manufacturing Systems
- 24UCA710: P: Integrated Business Information Systems

Track 6: Teaching

- 24UGP791: K: Educational Psychology
- 24UCA756: S: Teaching Computer Science
- 24UGL792: P: Teaching, Learning and Assessment

Track 7: Technopreneur

- 24UCA713: K: Up skilling
- 24UCA757: S: Incubation
- 24UCA714: P: Start ups

Open (Inter-disciplinary) Elective Theory

- 24UCA801: Digital Creativity and Media Technologies
- 24UCA802: Computational Methods and Data Analysis
- 24UCA803: Digital Tools for Social Research and Governance
- 24UCA804: Computer Applications in Life and Health Sciences