B.Sc. – Information Technology (Course Structure under CBCS)
Proposed Course Structure based on TANSCHE and UGC-LOCF

(For the Candidates admitted from academic year 2023 - 2024 onwards)

SEM	Part	Course Code	Course Title	Hrs/ Week	Credit	Exam Hrs	Marks		Total Mark
							Int.	Ext	
I	I	U1R3TL1	Language Course – I	6	3	3	25	75	100
	II	U1R3EL1	English Language Course – I	6	3	3	25	75	100
	III	U1R3ITCC1	Core Course – 1 Programming in C	5	5	3	25	75	100
		U1R3ITCC2P	Core Course – 2 C Programming Practical	5	5	3	40	60	100
		U1R3ITDSE1:1 /1:2	Elective – 1 Numerical Methods/ Multimedia Systems	4	3	3	25	75	100
	IV	U1R3ITSEC1 (NME)	Skill Enhancement Course - 1 - to be taken from other department	2	2	3	25	75	100
		U1R3ITFC	Foundation Course FC- Fundamentals of Computers	2	2	3	25	75	100
			TOTAL	30	23	-	-	-	700
II	I	U2R3TL2	Language - I (Tamil/Hindi/French)	6	3	3	25	75	100
	II	U2R3EL2	Language - II (English)	6	3	3	25	75	100
	III	U2R3ITCC3	JAVA Programming	5	5	3	25	75	100
		U2R3ITCC4P	Practical II - JAVA Programming and Data Structures Practical	5	5	3	40	60	100
		U2R3ITDSE 2:1/ 2:2	Digital Logic Fundamentals / Discrete Structures	4	3	3	25	75	100
	IV	U2R3ITSEC2 **(NME2)**	To be opted from other Department	2	2	3	25	75	100
		U2R3ITSEC3	Quantitative Aptitude	2	2	3	25	75	100
			TOTAL	30	23	-	-	-	700

1. 28/2
2. 28/2/24
3. 28/2
4. 29.

III	I	U3R3TL3	Language Course – III	6	3	3	25	75	100
	II	U3R3EL3	English Language Course- III	6	3	3	25	75	100
	III	U3R3ITCC5	Core Course – 5 Data Structures and Algorithms	5	5	3	25	75	100
		U3R3ITCC6P	Core Course – 6 Algorithm Practical	5	5	3	40	60	100
		U3R3ITDSE 3:1 /3:2	Elective Course – 3 Web Application Development / Software Testing	4	3	3	25	75	100
	IV	U3R3ITSEC 4:1P/ 4:2P	Skill Enhancement Course -4 Web Practical / R Programming Practical	2	2	3	40	60	100
		U3R3VE	Value Education	2	2	3	25	75	100
			TOTAL	**30**	**23**	-	-	-	**700**
IV	I	U4R3TL4	Language Course – IV	5	3	3	25	75	100
	II	U4R3EL4	English Language – IV	5	3	3	25	75	100
	III	U4R3ITCC7	Core Course 7 – Operating Systems	5	5	3	25	75	100
		U4R3ITCC8P	Core Course – 8 OS – Practical	5	5	3	40	60	100
		U4R3ITDSE 4:1 /4:2	Elective Course 4 Python Programming / E – Commerce	4	3	3	25	75	100
	IV	U4R3ITSEC 5:1P/5:2P	Skill Enhancement Course – 5 Python Programming Practical/ Visual Programming Practical	2	2	3	40	60	100
		U4R3ITSEC 6:1/6:2	Skill Enhancement Course – 6 Visual Programming/ ASP Programming	2	2	3	25	75	100
		U4R3ES	Environmental Studies(EVS)	2	2	3	25	75	100
			TOTAL	**30**	**25**	-	-	-	**800**
V	III	U5R3ITCC9	Core Course – 9 Computer Networks	5	5	3	25	75	100
		U5R3ITCC10	Core Course – 10 Database Management Systems	5	4	3	25	75	100
		U5R3ITCC11	Core Course – 11 Microprocessor	5	4	3	25	75	100
		U5R3ITCC12P	Core Course – 12 DBMS Practical	5	4	3	40	60	100

1. 28/2

2. 28/2/24

3. 28/2

4. 28/2

		U5R3ITDSE 5:1/ 5:2	Elective Course - 5 Data Mining and Warehousing / Information Security	5	3	3	25	75	100
		U5R3ITDSE 6:1 /6:2	Elective Course - 6 Introduction to Data Science / System Administration and Maintenance	5	3	3	25	75	100
	IV	U5R3ITINT	Internship (Carried out in II Year Summer vacation)	-	2	-	-	-	100
			TOTAL	**30**	**25**	-	-	-	**700**
VI	III	U6R3ITCC13	Core Course – 13 PHP Programming	5	4	3	25	75	100
		U6R3ITCC14P	Core Course – 14 PHP Programming Practical	5	4	3	40	60	100
		U6R3ITCC15PW	Core Course – 15 Project work	6	4	-	-	-	100
		U6R3ITDSE 7:1 /7:2	Elective Course - 7 Software Engineering/ Artificial Intelligence	5	3	3	25	75	100
		U6R3ITDSE 8:1 /8:2	Elective Course - 8 Big Data Analytics / Image Processing	5	3	3	25	75	100
	IV	U6R3ITSEC 7:1/7:2	Skill Enhancement Course – 8 Ruby Programming/ Cloud Computing	2	2	3	25	75	100
	V	U6R3GS	Gender Studies	2	1	3	25	75	100
			TOTAL	**30**	**22**	-	-	-	**700**
			MOOC Online Course		**(04)**				
			Grand Total		**141(04)**				**4300**

1. 28/2

2. 28/2/24

3. 28/2

4. 20/2/24

J.J College of Arts and Science (Autonomous), Pudukkottai – 622 422

M.Sc. – Information Technology (Course Structure under CBCS)

Proposed Course Structure based on TANSCHE and UGC-LOCF

(For the Candidates admitted from academic year 2023 – 2024)

Sem.	Paper Code	Title	Instruct Hours/ Week	credi	Exam Hours	Marks		Total
						Int.	Ext.	
I	P1R3ITCC1	Python Programming	7	5	3	25	75	100
	P1R3ITCC2P	Python Programming – Practical	7	5	3	40	60	100
	P1R3ITCC3P	Web Development using Word Press– Practical	6	4	3	40	60	100
	P1R3ITDSE1:1/ P1R3ITDSE1:2	Networks and Security/ Principles of Compiler Design	5	3	3	25	75	100
	P1R3ITDSE2:1/ P1R3ITDSE2:2	Object oriented analysis and design/ Pervasive Computing	5	3	3	25	75	100
Total			**30**	**20**				**500**
II	P2R3ITCC4	Database Systems	6	5	3	25	75	100
	P2R3ITCC5P	Practical III - RDBMS Lab	6	5	3	40	60	100
	P2R3ITCC6P	Practical IV - Open Source Technologies - Practical	6	4	3	40	60	100
	P2R3ITDSE3:1/ P2R3ITDSE3:2	Digital Image Processing/ Biometric Techniques	4	3	3	25	75	100
	P2R3ITDSE4:1/ P2R3ITDSE4:2	Operating Systems / Human Computer Interaction	4	3	3	25	75	100
	P2R3ITSEC1	Web Design	4	2	3	25	75	100
Total			**30**	**22**				**600**

1. 28/12

2. 28/12/22

3. 28/12

4.

Sem.	Paper Code	Title	Instruct Hours/ Week	credi	Exam Hours	Marks		Total
						Int.	Ext.	
III	P3R3ITCC7	Advanced JAVA	5	5	3	25	75	100
	P3R3ITCC8	Dot Net with C# Programming	5	5	3	25	75	100
	P3R3ITCC9P	Advanced JAVA – Practical	6	5	3	40	60	100
	P3R3ITCC10P	Dot Net with C# Programming Practical	6	5	3	40	60	100
	P3R3ITDSE5:1/ P3R3ITDSE5:2	Discipline Specific Elective Course 5 Internet of Things / Trends in Computing	5	3	3	25	75	100
	P3R3ITSEC2:1/ P3R3ITSEC2:2	Skill Enhancement Course 2 Animation in Flash/ Grid Computing	3	2	3	25	75	100
	P3R3ITINT	Internship	-	3	-	-	-	100
Total			**30**	**28**				**700**
IV	P4R3ITCC11	Data Science and Big Data Analytics	15	5	3	25	75	100
	P4R3ITCC12	Software Project Management	15	5	3	25	75	100
	P4R3ITCC13PW	Project work	-	10	3	-	-	100
Total			**30**	**20**	-	-	-	**300**
MOOC Online Course				**04**				
Grand Total			-	**90(04)**	-	-	-	**2100**

1. 28/2/24
2. 28/2/24
3. 28/2
4. 28/2/24