



SEETHALAKSHMI RAMASWAMI COLLEGE

(Autonomous)

**Affiliated to Bharathidasan University
Tiruchirappalli**

Accredited with A+ by NAAC (4th Cycle)



B.Sc. Computer Science
CBCS - OBE Curriculum Structure
(For students admitted from 2024 onwards)

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT
I	I	Language - I		Course - I	6	3	EXT	25	75	100
	II	English - I		Course - I	6	3	EXT	25	75	100
	III	Core Course - I		'C' Programming	7	6	EXT	25	75	100
	III	Core Practical - I		Practical-I:C' and Java Programming	3	-	INT	-	-	-
	III	First Allied Course - I		Offered by the Department of Physics	4	3	EXT	25	75	100
	III	First Allied Practical		Offered by the Department of Physics	2	-	INT	-	-	-
	IV	VBE		Value Based Education	2	2	EXT	25	75	100
	Total					30	17			
		EXTRA CREDIT COURSE		Communicative and Functional English offered by Department of English (MANDATORY)	2	2	INT	25	75	100

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT
II	I	Language – II		Course – II	6	3	EXT	25	75	100
	II	English – II		Course – II	6	3	EXT	25	75	100
	III	Core Course – II		Programming in Java	7	6	EXT	25	75	100
	III	Core Practical – I		Practical-I: ‘C’ and Java Programming	3	4	INT	40	60	100
	III	First Allied Course - II		Offered by the Department of Physics	4	3	EXT	25	75	100
	III	First Allied Practical		Offered by the Department of Physics	2	3	INT	40	60	100
	IV	EVS		Environmental Studies	2	2	EXT	25	75	100
	Total					30	24			

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT	
III	I	Language – III		Course – III	6	3	EXT	25	75	100	
	II	English – III		Course – III	6	3	EXT	25	75	100	
	III	Core Course – III		Database Management System	6	6	EXT	25	75	100	
	III	Core Practical - II		Practical-II:MySQL and PYTHON Programming	2	-	INT	-	-	-	
	III	Second Allied Course – I		Offered by the Department of Mathematics	4	3	EXT	25	75	100	
	III	Second Allied Practical		Offered by the Department of Mathematics	2	-	INT	-	-	-	
	IV	NME - I*		Offered by other Departments	2	2	EXT	25	75	100	
	IV	SBE –I		DHTML Programming	2	2	EXT	25	75	100	
	Total					30	19				600
			EXTRA CREDIT COURSE		Internship – I - (II Semester vacation) Online/Offline -Certificate, Report & Photo (MANDATORY)	-	1	INT	-	-	100
				Community outreach activity (II Semester vacation – Report, Photo & Feedback) (OPTIONAL)	-	1	INT	-	-	100	

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/EXT	CIA	SE	TOT	
IV	I	Language – IV		Course – IV	6	3	EXT	25	75	100	
	II	English – IV		Course – IV	6	3	EXT	25	75	100	
	III	Core Course - IV		PYTHON Programming	6	6	EXT	25	75	100	
	III	Core Practical - II		Practical-II:MySQL and PYTHON Programming	2	4	INT	40	60	100	
	III	Second Allied Course – II		Offered by the Department of Mathematics	4	3	EXT	25	75	100	
	III	Second Allied Practical		Offered by the Department of Mathematics	2	3	INT	40	60	100	
	IV	NME - II*		Offered by other Departments	2	2	EXT	25	75	100	
	IV	SBE – II		Image Editing Tools	2	2	EXT	25	75	100	
	Total					30	26				800
					Certificate Course (IKS) – Offered by other Departments (beyond class hours) (MANDATORY)	2	2	INT	25	75	100
				Office Automation (MANDATORY)	2	2	INT	25	75	100	
		EXTRA CREDIT COURSE		Internship – II (III Semester vacation) - Online/Offline - Certificate, Report & Photo (OPTIONAL)	-	1	INT	-	-	100	
* Offered by the Department to the students of other disciplines											

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT	
V	III	Core Course - V		Operating System Concepts	5	5	EXT	25	75	100	
	III	Core Course - VI		Data Structures and Algorithms	5	5	EXT	25	75	100	
	III	Core Course - VII		Microprocessor and Applications	5	5	EXT	25	75	100	
	III	Core Practical- III		Practical-III:Operating Systems	6	4	INT	40	60	100	
	III	MBE – I		Software Engineering	5	4	EXT	25	75	100	
	IV	SBE – III		.NET Programming	2	2	EXT	25	75	100	
	IV	SSD		Soft Skill Development	2	2	INT	25	75	100	
					Total	30	27				700
			EXTRA CREDIT COURSE		Value Added Course – offered to the same department (beyond class hours) (MANDATORY)	2	2	INT	25	75	100
					Web Designing (MANDATORY)	2	2	INT	25	75	100
					Internship – III (IV Semester vacation) –Online/Offline - Certificate, Report & Photo (OPTIONAL)	-	1	INT	-	-	100
				Online Course (MOOC/ Swayam / NPTEL) – Before V Semester (OPTIONAL)	-	2	INT	-	-	100	

SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOT	
VI	III	Core Course - VIII		Computer Networks	5	5	EXT	25	75	100	
	III	Core Course - IX		Programming in PHP	5	5	EXT	25	75	100	
	III	Core Practical - IV		Practical-IV:Programming in PHP	6	4	INT	40	60	100	
	III	MBE- II		Cloud Computing	5	4	EXT	25	75	100	
	III	MBE - III		Computer Graphics and Multimedia	5	4	EXT	25	75	100	
	III	Project		Group project	3	3	EXT	20	80	100	
	V	GS		Gender Studies	1	1	INT	25	75	100	
	V	Extension		Extension Activities (NSS/NCC/YRC/Sports and Exnora)	-	1	INT	-	-	100	
	Total					30	27				800
	Grand Total					180	140				4100
		EXTRA CREDIT COURSE		Capacity Building for Enhancing Professional Skills – Offered by the Department (MANDATORY)	2	2	INT	-	-	100	
				Internet Concepts (MANDATORY)	2	2	INT	25	75	100	

TOTAL DISTRIBUTION OF HOURS, CREDITS & MARKS FOR UG PROGRAMME			
SEMESTER	HOURS	CREDITS	TOTAL MARKS
I	30	17	500
II	30	24	700
III	30	19	600
IV	30	26	800
V	30	27	700
VI	30	27	800
TOTAL	180	140	4100

LIST OF MAJOR BASED ELECTIVE COURSES

SEM	COURSE	COURSE CODE	COURSE TITLE
V	I (Choose any one course)		(A) Software Engineering (B) System Analysis and Design (Optional)
VI	II (Choose any one course)		(A) Cloud Computing (B) Object Oriented Modelling and programming (Optional)
	III (Choose any one course)		(A) Computer Graphics and Multimedia (B) Management Information System (Optional)

LIST OF SKILL BASED ELECTIVE COURSES

SEM	COURSE	COURSE CODE	COURSE TITLE
III	I (Choose any one course)		(A) DHTML Programming (B) C++ Programming (Optional)
IV	II (Choose any one course)		(A) Image Editing Tools (B) Programming with Oracle (Optional)
V	III (Choose any one course)		(A) .NET Programming (B) Programming with Visual Basic (Optional)

NON MAJOR ELECTIVE COURSES OFFERED TO OTHER DEPARTMENTS

SEM	COURSE	COURSE CODE	COURSE TITLE
III	I		Computer for Everyone
IV	II		Internet for Everyone

VALUE ADDED COURSE

Extra Credit Course for Skill Development

SEM	COURSE	COURSE CODE	COURSE TITLE
V	I		Basic Troubleshooting Techniques

CERTIFICATE COURSE (IKS) OFFERED TO OTHER DEPARTMENTS

Extra Credit Course for Skill Development

SEM	COURSE	COURSE CODE	COURSE TITLE
IV	I		Analytical and Reasoning Skills

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TIRUCHIRAPPALLI – 620 002

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B.Sc. Computer Science

(CBCS System)

(For Students admitted from June 2024 onwards)

Subject	Number of Courses	Hours	Credit
Language	4	24	12
English	4	24	12
Core Course (5x5=25) + (4x6=24)	9	51	49
Core Practical (4x4=16)	4	22	16
Allied Course: Physics Mathematics	4	16	12
Allied Practical: Physics Mathematics	2	8	6
Major Based Elective Course (3x4)	3	15	12
Skill Based Elective Course	3	6	6
Non Major Elective Course	2	4	4
Value Based Education	1	2	2
Environmental Studies	1	2	2
Soft Skill Development	1	2	2
Gender Studies	1	1	1
Extension Activities	1		1
Group Project	1	3	3
Total	41	180	140