

**B.Sc.(Computer Science with Cognitive Systems) - Curriculum and Credits
Industry Integrated Program with TCS**

Sem.	Course Code	Category	Paper	Hrs	L	T	P	Total Credits
I	BSCS241LT01 / BSCS241LH01 / BSCS241LS01	Multidisciplinary	Tamil - I / Hindi - I / Sanskrit – I	4	3	1	0	3
	BSCS241E02	AEC-1	English – I	4	3	1	0	3
	BSCS241T03	Major-1	Operating System	5	3	2	0	4
	BSCS241T04	Major-2	Practical – Programming using Operating System	5	0	0	5	2
	BSCS241A05	Minor-1	Mathematical Foundation to Computer Science - I	4	3	1	0	4
	BSCS241P06	SEC-1	Introduction to Worksheet - Lab	5	0	0	5	2
	BSCS241V07	VAC-1	Principles of Environmental Science	2	0	2	0	2
	BSCS241V08	VAC-2	Indian Culture	1	0	1	0	1
Total				30	12	8	10	21
II	BSCS242LT01 / BSCS242LH01 / BSCS242LS01	Multidisciplinary	Tamil - II / Hindi - II / Sanskrit – II	4	3	1	0	3
	BSCS242E02	AEC-2	English – II	4	3	1	0	3
	BSCS242T03	Major-3	Computer Networks	5	3	2	0	4
	BSCS242T04	Major-4	Practical – Programming using Computer Networks	5	0	0	5	2
	BSCS242A05	Minor-2	Mathematical Foundation to Computer Science – II	4	3	1	0	4
	BSCS242P06	SEC-2	Programming Using HTML, CSS, Java Script -Lab	5	0	0	5	2
	BSCS242V07	VAC-3	Fundamental of Cyber Security	2	0	2	0	2
	BSCS242V08	VAC-4	Yoga	1	0	1	0	1
Total				30	12	8	10	21
III	BSCS243LT01 / BSCS243LH01 / BSCS243LS01	Multidisciplinary	Tamil - III / Hindi - III / Sanskrit – III	4	3	1	0	3
	BSCS243E02	AEC-3	English – III	4	3	1	0	3
	BSCS243T03	Major-5	Relational Data Base Management Systems	5	3	2	0	4
	BSCS243T04	Major-6	Process Management	5	3	2	0	4
	BSCS243A05	Minor-3	Fundamental of Statistics	5	3	2	0	4
	BSCS243P06	SEC-3	RDBMS - Lab	6	0	0	6	2
	BSCS243V07	VAC-5	Soft Skills – I	1	0	1	0	1
Total				30	15	9	6	21

Sem.	Course Code	Category	Paper	Hrs	L	T	P	Total Credits
IV	BSCS244LT01 / BSCS244LH01 / BSCS244LS01	Multidisciplinary	Tamil - IV / Hindi - IV / Sanskrit – IV	4	3	1	0	3
	BSCS244E02	AEC-4	English - IV	4	3	1	0	3
	BSCS244T03	Major-7	Infrastructure Management	5	3	2	0	4
	BSCS244T04	Major-8	IT Infrastructure Library	5	3	2	0	4
	BSCS244A05	Minor-4	Accounting for Business	5	3	2	0	4
	BSCS244P06	SEC-4	Infrastructure Management Applications - Lab	6	0	0	6	2
	BSCS244V07	VAC-6	Soft Skills – II	1	0	1	0	1
Total				30	15	9	6	21
V	BSCS245T01	Major-9	Software Testing	5	3	2	0	4
	BSCS245T02	Major-10	Virtualization and Cloud	5	3	2	0	4
	BSCS245T03	Major-11	Introduction to Digital Technologies	4	3	1	0	4
		Major-12	Major Elective-1	4	3	1	0	4
	BSCS245TE04A		A. Computer Graphics & Multimedia Systems					
	BSCS245TE04B		B. Software Engineering					
		Minor-5	Minor Elective - 1	4	3	1	0	4
	BSCS245TE05A		A. Management Information System					
	BSCS245TE05B		B. Management Principles & Practice					
	BSCS245P06	SEC-5	Software Testing - Lab	4	0	0	4	2
BSCS245P07	SEC-6	Virtualization and Cloud - Lab	4	0	0	4	2	
Total				30	15	7	8	24
VI	BSCS246T01	Major-13	Programming with Python	5	3	2	0	4
	BSCS246T02	Major-14	Client Relationship Management	5	3	0	2	4
	BSCS246T03	Major-15	IT Cognition	4	3	1	0	4
		Major-16	Major Elective-2	4	3	1	0	4
	BSCS246TE04A		A. Campus to Corporate					
	BSCS246TE04B		B. Data Warehousing and Data Mining					
		Minor-6	Minor Elective-2	4	3	1	0	4
	BSCS246AE05A		A. Digital Marketing					
	BSCS246AE05B		B. Human Resource Management					
	BSCS246P06	SEC-7	Programming with Python - Lab	4	0	0	4	2
BSCS246P07	SEC-8	Software Development Lab	4	0	0	4	2	
Total				30	15	5	10	24

Sem.	Course Code	Category	Paper	Hrs	L	T	P	Total Credits
VII	BSCS247T01	Major-17	Research Trends in Computer Science	5	3	2	0	4
		Major-18	Major Elective-3	5	3	2	0	4
	BSCS247TE02A		A. Internet of Things (IoT)					
	BSCS247TE02B	B. Agile Software Engineering						
		Major-19	Major Elective-4	5	3	2	0	4
	BSCS247TE03A		A. Machine Learning					
	BSCS247TE03B	B. Network Security						
		Major-20	Major Elective-5	5	3	0	2	4
	BSCS247TE04A		A. Big Data Analytics					
	BSCS247TE04B	B. Mobile Application Development						
		Minor-7	Minor Elective-3	4	3	1	0	4
	BSCS247AE05A		A. Probability and Statistics					
	BSCS247AE05B	B. Operations Research						
BSCS247P06	IAPC - 1	Mini Project	6	0	0	6	2	
Total				30	15	7	8	22
VIII	BSCS248T01	Major-21	Artificial Intelligence	5	3	2	0	4
		Minor-8	Minor Elective-4	4	3	1	0	4
	BSCS248AE02A		A. Human Values and Professional Ethics					
	BSCS248AE02B	B. Ethical Hacking						
	BSCS248P03	IAPC - 2	Project	21	0	0	21	12
Total				30	6	3	21	20
Overall Total								174

S. No	Course Category	Total Credits	
		III Year	IV Year
1	Multidisciplinary	12	12
2	Ability Enhancement Course (AEC)	12	12
3	Minor	24	32
4	Major	60	80
5	Skills Enhancement Course (SEC)	16	16
6	Research Project / Dissertation (IAPC)	-	14
7	Value Added Course	8	8
Overall Credits		132	174