

St. Peter's Institute for Higher Education and Research
(Deemed to be University)
Established Under Section 3 of UGC Act, 1956
Accredited with A+ Grade by NAAC in the Second Cycle
AVADI, Chennai – 600054

Curriculum framework for UG Program, FASCMH for the Academic Year 2025-2026

B.Sc. Computer Science - Regulation 2025

Curriculum with Semester-Wise and Credits Distribution

Credit Framework

S. No.	Particulars	Credit (s)	Instruction hours	Remarks
01	Theory	1	14-15 h / semester	
02	Practical / Workshop	1	28-30 h / semester	
03	Tutorial	1	14-15 h / semester	
04	Experiential learning	1	45 / semester	
05	Skill courses	1	28-30 h / semester	
06	Internship / Apprenticeship	3.3	One month	(i.e.) 3-month internship can award 10 credits
07	Project	3.3	One month	(i.e.) 3-month project can award 10 credits

Course category and code for UG (FASCMH)

S. No.	Course category	Course Category Code	Credit(s) (Minimum)	
			3 years	4 years
01	Major (Core courses)	MCC	60	80
02	Minor (Allied subjects)	MNC	24	32
03	Multidisciplinary / Interdisciplinary	MDC	09	09
04	Ability Enhancement Course	AEC	08	08
05	Skill Enhancement Course	SEC	09	09
06	Value Added Course	VAC	10	10
07	Summer Internship	SIC	04	04
08	Research Project / Dissertation	RPC	00	12
Total			124	164

Curriculum B.Sc Computer Science Degree Program (2025-2026)

Semester-wise (UG)

Semester	Course Code	Title of the Course	Course Category	NCrF level	SDG Goal	Instruction Hours / week			Credit(s)	Marks		
						L	T	P		CIA	ESE	Total
I	25CPU121	Python Programming with Lab	MCC	4.5	4, 8, 9	3	0	2	3	40	60	100
	25CPU122	Object Oriented Programming using C++ with Lab	MCC		4, 8, 9	3	0	2	3	40	60	100
	25MAU103	Mathematics –I	MNC		4	4	0	0	4	40	60	100
	25OECU001	Digital Electronics	MDC		9, 12	3	0	0	3	40	60	100
	25CPU104	Office Automation	SEC		4, 8	3	0	0	3	40	60	100
	25TAU151/ 25TEU151/ 25HIU151/ 25FRU151	Tamil-I/ Telegu-I/ Hindi –I/ Kannda – I / French - I	AEC		4, 10, 11	2	0	0	2	40	60	100
	25IKSU001	Introduction to Indian Knowledge Systems	VAC		4, 11, 12	2	0	0	2	40	60	100
Semester Total						20	0	4	20	280	420	700
II	25CPU221	Data Structures Using C++ with Lab	MCC	4.5	4, 9	3	0	2	3	40	60	100
	25CPU222	Design and Analysis of Algorithms with Lab	MCC		4, 9	3	0	2	3	40	60	100
	25MAU203	Mathematics II	MNC		4	4	0	0	4	40	60	100
	25OECU002	Cyber Security with AI	MDC		9, 16	3	0	0	3	40	60	100
	25CPU201	Structured Query Language	SEC		4, 9	3	0	0	3	40	60	100
	25ENU251	English-I	AEC		4, 10	2	0	0	2	40	60	100
	25EVSU201	Environmental Studies	VAC		6, 12, 13, 15	2	0	0	2	40	60	100
	25CPU281	Summer Internship	SIC		4, 8	0	0	0	2	-	-	100
Semester Total						20	0	4	22	280	420	700
III	25CPU321	Java Programming with Lab	MCC	5.0	4, 9	3	0	2	3	40	60	100
	25CPU322	Database Management Systems with lab	MCC		4, 9	3	0	2	3	40	60	100
	25MAU301	Discrete Mathematics	MNC		4	4	0	0	4	40	60	100
	25OECU003	Digital Technologies in Health	MDC		3, 9	3	0	0	3	40	60	100
	25CPU301	Web Development with HTML/CSS	SEC		4, 8, 9	3	0	0	3	40	60	100
	25CPU302	Professional Communication Skills	AEC		4, 8	2	0	0	2	40	60	100
	25UHVU001	Universal Human Values (UHV)	VAC		4, 16	2	0	0	2	40	60	100
		NSS/YOGA/SPORTS	NCC		No Credit Course							
Semester Total						20	0	4	20	280	420	700

IV	25CPU421	Operating Systems with Lab	MCC	5.0	4, 9	4	0	2	4	40	60	100
	25CPU422	Software Engineering Principles with Lab	MCC		4, 9	4	0	2	4	40	60	100
	25MAU401	Linear Algebra	MNC		4	4	0	0	4	40	60	100
	25CPU401	AI & Machine Learning Concepts	MCC		4, 9	4	0	0	4	40	60	100
	25IKSU002	Ancient Indian Computational Thought	VAC		4, 11	2	0	0	2	40	60	100
	25CPU401	Career Development and Interview Skills	AEC		4, 11	2	0	0	2	40	60	100
Semester Total						20	0	4	20	240	360	600
V	25CPU521	Computer Networks with Lab	MCC	5.5	4, 9	4	0	2	4	40	60	100
	25CPU501	Internet of Things (IoT)	MCC		4, 9	4	0	0	4	40	60	100
	25CPU502	Entrepreneurship and Start-ups	MCC		8, 9	4	0	0	4	40	60	100
	25CPU503	Data Science and Statistics	MNC		4, 9	4	0	0	4	40	60	100
	25CPU581	Summer Internship	SIC		4, 8	0	0	0	4	-	100	100
	25CPU591	Mini Project	RPP		4, 8	0	0	4	3	-	100	100
Semester Total						16	0	6	23	160	440	600
VI	25CPU601	Computer Architecture	MCC	5.5	4, 9	4	0	0	4	40	60	100
	25CPU621	Cloud Computing with Lab	MCC		9, 13	4	0	2	4	40	60	100
	25CPU602	Big Data Analytics	MCC		4, 9, 11	4	0	0	4	40	60	100
	25CPU603	Advanced Database Systems	MNC		4, 9	4	0	0	4	40	60	100
	25CPU691	Major Project	RPC/MCC		4, 8	4	0	0	4	-	100	100
Semester Total						20	0	2	20	160	340	500
VII	25CPU721	Web Technologies with Lab	MCC	5.0	4, 9	4	0	2	4	40	60	100
	25CPU701	Android Application Development	MCC		4, 9, 11	4	0	0	4	40	60	100
	25CPU702	Computer Graphics and Visualization	MCC		4, 9	4	0	0	4	40	60	100
	25CPU703	Research Methodology	MCC		4, 9	4	0	0	4	40	60	100
	25CPU704	R Programming with Lab	MNC		4, 8	3	0	2	4	40	60	100
Semester Total						20	0	4	20	200	300	500
VIII	25CPU821-A 25CPU821-B 25CPU821-C	Advanced Topics in AI with Lab Advanced Topics in ML with Lab Advanced Topics in Blockchain with Lab	MCC	6.0	4, 9, 16	3	0	2	3	40	60	100
	25CPU801	Cyber Security & Cyber Law	MCC		9, 16	3	1	0	3	40	60	100
	25CPU805	Quantum Computing (SWYAM)	MNC		4, 8	4	0	0	4	40	60	100
	25CPU891	Research Project	RPC		4, 9, 17	0	0	12	12	40	60	100
Semester Total						10	1	14	22	160	240	400