

B.Tech. in COMPUTER SCIENCE & FINANCIAL TECHNOLOGY
(2026 Scheme) - 2025 and onwards
School of Computer Engineering

Course Code	Course Name	L	T	P	C	Course Code	Course Name	L	T	P	C		
												L	T
SMS 1102	Computational Mathematics - I	3	1	0	4	SMS 1202	Computational Mathematics - II	3	1	0	4		
SMS 1002	Applied Physics for Engineers	3	0	0	3	SMS 1004	Applied Chemistry for Engineers	3	0	0	3		
EES 1004	Fundamentals of Electronics	2	1	0	3	EES 1002	Fundamentals of Electrical Engineering	3	0	0	3		
CES 1102	Programming for Problem Solving	2	1	0	3	CCS 1002	Engineering Mechanics and Smart Buildings	2	1	0	3		
MES 1002	Fundamentals of Mechanical Engineering	3	0	0	3	CES 1201	Introduction to Object Oriented Programming	3	0	0	3		
SMS 1005	Communication Skills in English	1	0	2	2	CCS 1003	Environmental Studies	1	0	2	2		
MES 1001	Workshop Practice	0	0	3	1	CES 1211	Data Visualization	1	0	3	2		
CES 1111	Programming for Problem Solving Lab	0	0	3	1	CES 1212	Introduction to Object Oriented Programming Lab	0	0	3	1		
SMS 1006	Universal Human Values and Professional Ethics (MLC)	1	0	0	1	MES 1013	Computer Aided Engineering Graphics	0	0	3	1		
HUM 1072	Human Rights and Constitution (MLC)	1	0	0	1	IPE 4302	Creativity, Problem Solving & Innovation*	1	0	0	--*		
IPE 4302	Creativity, Problem Solving & Innovation*	1	0	0	--*								
		17	3	8	22			17	2	11	22		
Total Contact Hours (L + T + P)		28				Total Contact Hours (L + T + P)				30			

Year	THIRD SEMESTER					FOURTH SEMESTER											
	Sub. Code	Subject Name	L	T	P	C	Sub. Code	Subject Name	L	T	P	C					
II	SMS 2102	Mathematics for Finance	4	0	0	4	SMS 2202	Probability, Stochastic Process and Operations Research	4	0	0	4					
	SMF 2101	Introduction to Banking, Payments and Capital Markets	4	0	0	4	SMF 2221	Accounting & Finance for Engineers	4	0	0	4					
	CEF 2101	Programming Paradigm	4	0	0	4	SMF 2222	Statistics for Finance	3	0	0	3					
	CEF 2102	Algorithms & Data Structures - Java	4	0	0	4	SMF 2223	Introduction to Fintech	3	0	0	3					
	CEF 2104	Database Management Systems	3	0	0	3	CEF 2201	Operating Systems and Network Technologies	4	0	0	4					
	CEF 2111	Programming Paradigm Lab	0	0	3	1	CEF 2202	Fintech Lab	0	0	6	2					
	CEF 2112	Database Management Systems Lab	0	0	3	1	SMF 2211	Design Thinking Lab	0	0	3	1					
	CEF 2113	Algorithms & Data Structure - Java - Lab	0	0	3	1											
			19	0	9	22			20	0	8	21					
	Total Contact Hours (L + T + P)		19+9=28					Total Contact Hours (L + T + P)					20+8=28				

		FIFTH SEMESTER						SIXTH SEMESTER							
III	CEF 3101	Software Application Design	3	0	0	3	SMS 3004	Emerging Economic Landscape	3	0	0	3			
	CEF 3102	Machine Learning	3	0	0	3	CEF 3201	Deep learning	3	0	0	3			
	CEF 3103	Banking Technology	3	0	0	3	CEF 3202	Capital Markets Technology	3	0	0	3			
	CEF 3104	Cyber Security	3	0	0	3	CFP 44XX	PE - 1 / Minor Specialisation	3	0	0	3			
	CEF 3105	AI in Finance	3	0	0	3	CFP 44XX	PE - 2 / Minor Specialisation	3	0	0	3			
	CEF 3111	Machine Learning Lab	0	0	3	1	CEF 3211	Deep Learning Lab	0	0	3	1			
	CEF 3112	Banking Technology Lab	0	0	6	2	CEF 3212	Capital Markets Lab	0	0	6	2			
	IOE 3XXX	Open Elective-1	3	0	0	3	IOE 3XXX	Open Elective-2	3	0	0	3			
				0	0	9	21			19	0	6	21		
			Total Contact Hours (L + T + P) + OE	18+6=24						Total Contact Hours (L + T + P) + OE					
									19+6=25						
IV	CFP 44XX	PE - 3 / Minor Specialisation	3	0	0	3	CES 4299	Industrial Training (MLC)				1			
	CFP 44XX	PE - 4 / Minor Specialisation	3	0	0	3	CEF 4999	Capstone Project				12			
	CFP 44XX	PE - 5	3	0	0	3	CFH 5999	Project Work (B Tech - Honours) **				20			
	CFP 44XX	PE - 6	3	0	0	3	CFH 5XXX	B Tech - Honours Theory - 1** (V semester)				4			
	CFP 44XX	PE - 7	3	0	0	3	CFH 5XXX	B Tech - Honours Theory - 2** (VI semester)				4			
	IOE 3XXX	Open Elective-3	3	0	0	3	CFH 5XXX	B Tech - Honours Theory - 3** (VII semester)				4			
	*** 4199	Mini Project (Minor specialisation) *				8						13/33			
				18	0	0	18/26								
			Total Contact Hours (L + T + P) +OE	15 + 3 = 18											

*Applicable to students who opted for minor specialisation

**Applicable to eligible students who opted for and successfully completed the B Tech - honours requirements

<p>Minor Specializations I. BFSJ Track SMF 4401: Dev Sec Ops SMF 4402: Software Reliability SMF 4403: Reporting & Analytics using AI for Fintech SMF 4404: Software Quality Assurance and Project Management</p>	<p>Other Program Electives CFP 4401: Financial Risk Management CFP 4402: Algorithmic Trading CFP 4403: Compliance and Regulation for Fintech</p>	<p>Open Electives IOE 3XXX: Management Research Methods</p>
<p>II. Investment Management SMF 4405: Economics SMF 4467: Financial Statement Analysis SMF 4407: Derivatives and Alternative Investments SMF 4408: Security Analysis and Portfolio Management</p>		