

School of Computer Science and Engineering

Programme Credit Structure		Credits		IACSI202	Digital Logic and Computer Design	3	0	2	4		
University Core Courses		72		IACSI203	Advanced Computer Architecture and Organization	3	1	0	4		
Professional Core Courses		80									
Professional Elective Courses		28		IACSI204	Database Systems Design	3	0	2	4		
Open Elective Courses		20		IACSI205	Operating System Fundamentals	3	0	2	4		
Total Graded Credit Requirement		200		IACSI206	Internet and Web Programming	2	0	4	4		
				IACSI301	Microprocessors and Microcontrollers	3	0	2	4		
University Core Courses		72		IACSI302	Data Communication and Computer Networks	3	0	2	4		
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IACHY102	Engineering Chemistry	3	0	2	4	IACSI303	IoT and Embedded Systems	3	0	2	4
IAPHY101	Engineering Physics	3	0	2	4	IACSI304	Cryptography and Cyber Security	3	0	2	4
IAMAT101	Multivariable Calculus and Differential Equations	3	0	2	4	IACSI305	Artificial Intelligence and Machine Learning	3	0	2	4
IAMAT201	Applied Linear Algebra	3	1	0	4	IACSI306	Software Engineering Principles and Practices	3	0	2	4
IAMAT202	Discrete Mathematics and Graph Theory	3	1	0	4	IACSI308	Formal Languages and Automata Theory	3	1	0	4
IAMAT203	Probability and Statistics	3	0	2	4	IACSI401	Cloud Computing Technologies	3	0	2	4
IAEEE101	Basic Electrical and Electronics Engineering	3	0	2	4	IAMDIA401	Programming for Data Science	3	0	2	4
IACSE101	Problem Solving Using Python	0	0	4	2	IAMDIA402	Data Visualization	3	0	2	4
IACSE102	Problem Solving Using Java	0	0	4	2	IAMDIA403	Data Mining	3	0	2	4
IACSE201	Structured and Object-Oriented Programming	2	0	4	4	IAMDIA404	Soft Computing Techniques	3	1	0	4
IASTS101	Qualitative and Quantitative Skills Practice I	3	0	0	1	Professional Elective Courses				28	
IASTS102	Qualitative and Quantitative Skills Practice II	3	0	0	1	IAMDIA405	Machine Learning for Data Science	3	0	2	4
IASTS201	Qualitative and Quantitative Skills Practice III	3	0	0	1	IAMDIA406	Distributed Systems	3	1	0	4
IASTS202	Qualitative and Quantitative Skills Practice IV	3	0	0	1	IAMDIA407	Exploratory Data Analysis	3	0	2	4
IAFLC100	Foreign Language	1	0	2	2	IAMDIA408	Statistical Inference	3	0	2	4
IAHUM101	India Studies	1	0	0	1	IAMDIA409	Predictive Analytics	3	1	0	4
IACHY101	Environmental Sciences	2	0	0	2	IAMDIA410	Healthcare Data Analytics	3	1	0	4
IAHSM100	Humanities, Social Science and Management	3	0	0	3	IAMDIA411	Financial Data Analytics	3	0	2	4
IAENG101	Technical English Communication	3	0	2	4	IAMDIA412	Advanced Data Visualization Techniques	3	0	2	4
IACSI399	Summer Industrial Internship	0	0	4	2	IAMDIA413	Advanced Data Compression Techniques	3	0	2	4
IACSI498	Project - I	0	0	16	8	IAMDIA414	Computer Vision	3	0	2	4
IACSI499	Project - II / Capstone	0	0	20	10	IACSI404	Deep Learning	3	0	2	4
IAENG100	Effective English Communication (NCC)	0	0	4	2	IACSI405	MLOPs	3	0	2	4
IAEXC100	Extracurricular Activities (NCCM)	0	0	4	2	IACSI406	Gen AI and Large Language Models	3	0	2	4
						IACSI407	Agentic AI	3	0	2	4
Professional Core Courses		80		Open Elective Courses				20			
IAMAT204	Complex Variables and Integral Transforms	3	1	0	4						
IACSI101	Data Structures and Algorithms	3	0	2	4	Engineering Sciences Humanities Social Sciences Economics Finance Management					
IACSI201	Design and Analysis of Algorithms	3	0	2	4						