



INTERNATIONAL INSTITUTE OF
INFORMATION TECHNOLOGY

HYDERABAD

Course offerings in 2025-26 Semester II (Spring) - V3(8.12.2025)

CD - Course Discription -Programme Requirement; Institute Requirement

AD - Area Code - MA-Maths; CS-Comp Sci; EC-Electronics, CG-Cognitive Science;

HS-Human Sciences; SC-Science; OE-Open Elective; CL-Compu. Linguistics; OT-Others

L-T-P-C: (Lecture hours - Tutorial hours - Practical Hours) per week - Credits

H1-1st Half of the Semester; H2-2nd Half of the Semester; H-1 Class per week with full Semester

PG Programmes					
CD	AD	CNO	CName	Credits	Faculty Name(s)
M.Tech I year II Semester - CSE					
Pr	CS		Bouquet core	3-1-0-4	
Pr	CS		Bouquet core	3-1-0-4	
Pr	CS		Area electives	3-1-0-4	
Pr	CS		Breadth Elective/Project/Independent Study	3-1-0-4	
			Total 12-4-0-16		
M.Tech II year II Semester – CSE					
Pr	CS		Area Elective	3-1-0-4	
Pr	CS		Area Elective	3-1-0-4	
Pr	CS		Area Elective	3-1-0-4	
Pr	CS		Open Elective/Project/Independent Study	3-1-0-4	
			Total 12-4-0-16		
M.Tech I year II Semester – CSIS					
		CS8.403	System and Network Security	3-1-0-4	Ashok Kumar Das
		CS8.401	Principles of Information Security	3-1-0-4	Srinathan Kannan
			Bouquet Core	3-1-0-4	
			Bouquet/ Area/ CS/ IT Elective	3-1-0-4	
			Total 12-4-0-16		
M.Tech II year II Semester – CSIS					
		CS9.412	PG-Project	0-2-6-4	
		CS8.402	Information Security Audit and Assurance	3-1-0-4	Shatrunjay Rawat
			Bouquet Core	3-1-0-4	
			Area/ CS/ IT Elective	3-1-0-4	
			Total 9-5-6-16		
M.Tech I Year II Semester – CASE					
		CS0.302	Computing Tools	3-1-3-4	Vikram Pudi
			Electvie I	3-1-0-4	
			Electvie II	3-1-0-4	
			Elective III	3-1-0-4	
			Elective IV	3-1-0-4	
			Total 15-5-3-20		
M.Tech II Year II Semester – CASE					
		CE9.403	CASE Project	0-2-6-12	
			Total 0-2-6-12		

M.Tech I Year II Semester – Product Design and Management - Full Time					
Pr	PD	PD2.422	Business Finance	3-1-0-4	Dr. Sarath Babu A (Guest Faculty)
Pr	PD		Product Design Elective 1	3-1-0-2	
Pr	PD		Product Design Elective 2	3-1-0-2	
Pr	PD		Product Design Elective 3	3-1-0-2	
Pr	PD		Business Elective 1	3-1-0-4	
Pr	PD		Business Elective 2	3-1-0-2	
Pr	PD		Technology / Systems / Open Elective	3-1-0-4	
Pr	PD	PD9.602	PDM Seminar	0Cr	Guest Speakers
			Total 21-7-2-20		

M.Tech II Year II Semester – Product Design and Management - Full Time					
Pr	CS	PD9.404	PDM Project-4	0-2-6-12	
Pr	PD		Business/Design/Open Elective	3-1-0-4	
			Total 3-3-6-16		

Bouquet Courses - Registration Limit: 150					
	Theory Courses				
		CS1.404	Optimization Methods	3-1-0-4	Naresh Manwani
		CS1.406	Advanced Algorithms	3-1-0-4	Suryajith Ch
		CS8.401	Principles of Information Security	3-1-0-4	Kannan Srinathan
	Systems Courses				
		CS4.401	Data Systems (Max:160)	3-1-0-4	Kamal Karlapalem
		CS6.401	Software Engineering	3-1-0-4	Karthik Vaidhyanathan
		CS3.401	Distributed Systems Prerequisite: Operating Systems. Networks desirable	3-1-0-4	Lini Thomas
		CS1.403	Compilers	3-1-0-4	Venkatesh Choppella
	AI Courses				
		CS7.403	Statistical Methods in AI	3-1-0-4	Vineet Gandhi + CV Jawahar
		CS7.505	Computer Vision	3-1-0-4	Makarand Tapaswi + Charu Sharma
	CPS				
		EC4.404	Mechatronics System Design	3-1-0-4	Harikumar K + Antony Thomas
	IT+X				
		GS2.503	Spatial Data Sciences	3-1-0-4	Kuldeep Kurte + KS Rajan

Electives offered in Spring 2026

		CNO	CName	Credits	Faculty Name(s)
Electives for CHD Students					
		HS5.301	Growth and Development	3-1-0-4	Anirban Dasgupta
		HS0.304	Introduction to Philosophy of Technology	3-1-0-4	Ashwin Jayanti
		HS1.302	Readings in Russian Literature	3-1-0-4	Nazia Akhtar
		HS1.301	Critical Viewing and Reading	3-1-0-4	Sushmita Banerji
		HS4.303	Digital Democracy and Data Governance in the European Union	3-1-0-4	Aakansha Natani
		HS3.303	Theories and Practices of Nationalism	3-1-0-4	Aniket Alam
		HS2.304	Sociology of Platform Economies	3-1-0-4	Rajorshi Ray
		HS8.304	The Digital City	3-1-0-4	Khaliq Parkar
Electives for CND Students					
		SC4.411	Machine Learning for Natural Sciences	3-1-0-4	Vinod PK + Deva Priyakumar + Prabhakar B
		SC2.301	Physics of Soft Condensed Matter	3-1-0-4	Marimuthu Krishnan

	SC2.316	Molecular Modeling and Simulations	3-1-0-4	Marimuthu Krishnan + Deva Priyakumar
	SC3.303	Advanced Bioinformatics	3-1-0-4	Nita Parekh
	SC3.316	Mathematical Models in Biology	3-1-0-4	Abhishek Deshpande
	SC5.450	Mathematical Methods in Sciences	3-1-0-4	Monalisa Patra
	SC1.420	Introduction to Particle Physics	3-1-0-4	Subhadip Mitra
	SC3.404	Molecular Biology	3-1-0-4	Jagan Pongubala
Electives for CLD Students				
	CL2.404	Computational Psycholinguistics	3-1-0-4	Rajakrishnan P Rajkumar
	CL5.401	Topics in SSMT	3-1-0-4	Chiranjeevi Yerra + Parameswari Krishnamurthy
	EC5.408	Speech Signal Processing	3-1-0-4	Anil Kumar Vuppala
	CL3.408	Applications of Language Models Max.25	3-1-0-4	Vasudeva Varma
	CL3.409	Evaluation Methods for NLP (H2)	3-1-0-2	Manish Shrivastava + Parameswari Krishnamurthy
	CL3.406	Linguistic Data 3: Data Modeling in ILs (H1)	3-1-0-2	Rajakrishnan P Rajkumar
ECE Star / Stream Electives (Also applicable as CSE/Open Electives)				
Note for UG ECE/ECD Students: Please read carefully the guidelines for choosing of ECE Electives before registering.				
Signal Processing & Communication Stream				
	CS7.505	Computer Vision	3-1-0-4	Makarand Tapaswi + Charu Sharma
	CS7.403	Statistical Methods in AI	3-1-0-4	Vineet Gandhi + CV Jawahar
	CS1.502	Information-Theoretic Methods in Computer Science	3-1-0-4	Gowtham Kurri
	EC5.414	Machine Learning for Communication	3-1-0-4	Saikiran Bulusu
	EC5.408	Speech Signal Processing	3-1-0-4	Anil Kumar Vuppala
VLSI and Embedded Systems Stream				
	EC2.401	Analog IC Design	3-1-0-4	Abhishek Srivastava
	EC1.202	Bioinstrumentation and Devices	3-1-0-4	Anshu Sarje
	EC2.412	CMOS Oscillator Design	3-1-0-4	Abhishek Pullela
Robotics Stream				
	EC4.402	Intro to UAV Design	3-1-0-4	Harikumar K
	CS7.505	Computer Vision	3-1-0-4	Makarand Tapaswi + Charu Sharma
	CS7.403	Statistical Methods in AI	3-1-0-4	Vineet Gandhi + CV Jawahar
	EC4.501	Advances in Robotics & Control	3-1-0-4	Spandan Roy
	EC4.403	Robotics: Planning and Navigation	3-1-0-4	Madhava Krishna K + Antony thomas
	EC4.404	Mechatronics System Design	3-1-0-4	Harikumar K + Antony Thomas
Electives for PG CASE Students				
	CE1.603	Advanced Structural Analysis	3-1-0-4	Pravin Kumar Venkat Rao
	CE1.608	Analysis & Design of Precast and Prestressed Structures	3-1-0-4	Shubham Singhal
	CE1.609	Analysis and Design of Bridge Infrastructure	3-1-0-4	Jofin George
	CE1.601	Earthquake Engineering	3-1-0-4	Sunitha P
Electives for M.Tech PDM students - Offering to other students as Open elective- Max 20 students allowed				
Design Elective	PD1.411	Product Design Workshop	3-1-0-4	Prakash Yalla+Raghu Reddy
	CS5.401	User Interaction and Usability of Digital Products	3-1-0-4	Raman Saxena
	CS9.424	Technology Product Entrepreneurship	3-1-0-4	Ramesh Loganathan + Prakash Yalla

Business/ Entrepren Elect	PD2.423	Organizational Operations (H2)	3-1-0-2	TBD
	PD2.403	Sustainable Growth Strategy for Startup (H1)	3-1-0-2	Sridhar Kalyanasundaram
	PD2.502	Product Lifecycle Management	3-1-0-4	Ravi Warriar
CSE/Open Electives				
	CS7.401	Introduction to NLP	3-1-0-4	Manish Shrivastava
	CS8.403	System and Network Security	3-1-0-4	Ashok Kumar Das
	CS8.402	Information Security Audit and Assurance	3-1-0-4	Shatrunjay Rawat
	CS7.505	Computer Vision	3-1-0-4	Makarand Tapaswi + Charu Sharma
	CS1.408	Introduction to Game Theory	3-1-0-4	Sujit Gujar
	CS3.404	Internals of Application Servers	3-1-0-4	Ramesh Loganathan + Arjun Rajashekar
	CG3.501	Cognitive Science and AI	3-1-0-4	Bapi Raju S
	CG3.403	Behavioral Research: Statistical Methods	3-0-1-4	Vishnu Sreekumar + Bapi Raju S
	CG2.401	Cognitive Neuroscience (Max:80)	3-1-0-4	Bhaktee Dongaonkar
	CS7.603	Topics in Reinforcement Learning	3-1-0-4	Tejas Bodas + Harikumar K
	GS2.503	Spatial Data Sciences	3-1-0-4	Kuldeep Kurte + KS Rajan
	CG9.600	Cognitive Science Seminar (For Cognitive Sci Students)	0-2-0-0	Bapi Raju S + Priyanka Srivastava
	CS1.409	Quantum Algorithms	3-1-0-4	Shantanav Chakraborty
	CL2.404	Computational Psycholinguistics	3-1-0-4	Rajakrishnan P Rajkumar
	CS7.405	Responsible & Safe AI Systems	3-1-0-4	Ponnurangam Kumaraguru
	GS1.401	Optical Remote Sensing	3-1-0-4	RC Prasad + Kiran Chand T
	CL3.408	Applications of Language Models Max.25	3-1-0-4	Vasudeva Varma
	CL3.409	Evaluation Methods for NLP (H1)	3-1-0-2	Manish Shrivastava + Parameswari Krishnamurthy
	CS1.505	Quantum aspects of Cryptography	3-1-0-4	Atul Singh Arora
	CS6.402	Engineering Virtual Reality Systems (H)	3-1-0-2	Sai Anirudh Karre+Raghu Reddy
	CS1.502	Information-Theoretic Methods in Computer Science	3-1-0-4	Gowtham Kurri
Open Electives				
	CG1.403	Learning and Memory (Max 70)	3-1-0-4	Bhaktee Dongaonkar
	CG5.405	Art, Vision, & Feelings (H2)	3-1-0-2	Priyanka Srivastava + Shrikant Bharadwaj, LVPEI
	CS6.504	Law, Technology and Digital Governance	3-1-0-4	Raman Saxena + G.K. Goswami
	MA8.402	Mathematics for Finance - Max:25 - Selection by faculty	3-1-0-4	Sukrit Mittal
	CS9.433	Hydro Informatics & Climate Sciences (Max:40) Open Elective	3-1-0-4	Shaik Rehana
	CS5.401	User Interaction and Usability of Digital Products (Open Elective)	3-1-0-4	Raman Saxena
	CE8.401	Disaster Management (40)	3-1-0-4	Jofin George + Shubham Singhal
Math Electives (Random selection) Maximum no. of students for the following courses is: 50 each				
	MA4.303	Linear Partial Differential Equations and Variational Calculus	3-1-0-4	Samyadeb Bhattacharya

	MA7.501	Continuous Variable Quantum Information Theory and Computation	3-1-0-4	UttamSingh
	CS1.502	Information-Theoretic Methods in Computer Science	3-1-0-4	Gowtham Kurri
	MA5.501	Topics in Discrete Mathematics	3-1-0-4	Prasad Krishnan
	MA4.301	Differential Equations	3-1-0-4	Lakshmi Burra
Science Electives (Random selection) Max. no of students for each course is given in the brackets				
	SC4.411	Machine Learning for Natural Sciences (20)	3-1-0-4	Vinod PK + Deva Priyakumar + Prabhakar B
	SC2.301	Physics of Soft Condensed Matter (40)	3-1-0-4	Marimuthu Krishnan
	SC2.316	Molecular Modeling and Simulations (50)	3-1-0-4	Marimuthu Krishnan + Deva Priyakumar
	SC1.308	The Universe Across Scales (150)	3-1-0-4	Subhadip Mitra+Chittaranjan Hens+Diganta Das
	SC1.420	Introduction to Particle Physics	3-1-0-4	Subhadip Mitra
	SC3.316	Mathematical Models in Biology	3-1-0-4	Abhishek Deshpande
	SC2.315	Molecular Symmetry and Quantum Mechanics (No limit)	3-1-0-4	Harjinder Singh
	SC5.450	Mathematical Methods in Sciences	3-1-0-4	Monalisa Patra
	SC3.404	Molecular Biology	3-1-0-4	Jagan Pongubala

Sd/-

Dean (Academics)

Date: 1-Dec-2025