

International Institute of Informamtion Technology, Hyderabad

Course offerings in 2023-24 Semester II (Spring)

PG Programmes

CD	AD	CNO	CName	Credits	Faculty Name(s)
M.Tech I year II Semester - CSE					
			Bouquet core	3-1-0-4	
			Bouquet core	3-1-0-4	
			Area electives	3-1-0-4	
			Breadth Elective/Project/Independent Study	3-1-0-4	
			Total 12-4-0-16		
M.Tech II year II Semester – CSE					
			Area Elective	3-1-0-4	
			Area Elective	3-1-0-4	
			Area Elective	3-1-0-4	
			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	Ankit Gangwal
		CS8.401	Principles of Information Security	3-1-0-4	Kannan Srinathan
			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	Sriranjani K
			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 (H1)	3-1-0-2	A Sarath Babu
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	PD9.602	PDM Seminar	0Cr	

			Total 21-7-2-16		
M.Tech II Year II Semester – Product Design and Management - Full Time					
In	CS	PD9.404	PDM Project-4	0-2-6-12	Raman Saxena + Prakash Yalla + Ravi Warriar
In	PD		Business/Design/Open Elective	3-1-0-4	
			Total 3-3-6-16		
Electives					
		CNO	CName	Credits	Faculty Name(s)
Electives for CND Students					
		SC1.420	Introduction to Particle Physics	3-1-0-4	Subhadip Mitra
		SC4.411	Machine Learning for Natural Sciences	3-1-0-4	Prabhakar B + Vinod PK
		SC2.301	Physics of Soft Condensed Matter	3-1-0-4	Marimuthu Krishnan
		SC2.316	Molecular Modeling and Simulations	3-1-0-4	Deva Priyakumar + Marimuthu Krishnan
		SC1.440	Dynamical Processes in Complex Networks	3-1-0-4	Chittaranjan Hens
		SC2.315	Molecular Symmetry and Quantum Mechanics	3-1-0-4	Harjinder Singh
		SC3.410	NGS Data Analysis	3-1-0-4	Nita Parekh
		SC3.316	Mathematical Methods in Biology (40)	3-1-0-4	Abhishek Deshpande
Electives for CLD Students					
		CL2.404	Computational Psycholinguistics	3-1-0-4	Rajakrishnan
		CL3.407	Neural Natural Language Generation (H1)	3-1-0-2	Manish Shrivastava + Rahul Mishra
		CL5.401	Topics in SSMT	3-1-0-4	Anil Kumar V + Chiranjeevi Yerra
		CL3.406	Linguistic Data 3: Data Modelling in ILs (H2)	3-1-0-2	Parameswari Krishnamurthy
ECE Electives (Also applicable as CSE/Open Electives)					
Note for UG ECE/ECD Students: Please read carefully the guidelines for choosing of ECE Electives before					
	Signal Processing & Communication Stream				
		CS7.505	Computer Vision	3-1-0-4	Makarand Tapaswi + Anoop Namboodiri
		CS7.403	Statistical Methods in AI	3-1-0-4	Vineet Gandhi
		EC5.402	Time Frequency Analysis	3-1-0-4	Anil Kumar V + Chiranjeevi Yerra
		CS8.502	Topics in Information-Theoretic Privacy	3-1-0-4	Prasad Krishnan + Gowtham Kurri
	VLSI and Embedded Systems Stream				
		EC2.408	Digital VLSI Design	3-1-0-4	Zia Abbas
		EC2.502	Flexible Electronics	3-1-0-4	Aftab Hussain
		EC1.202	Bioinstrumentation and Devices	3-1-0-4	Anshu Sarje
	Robotics Stream				
		EC4.402	Intro to UAV Design	3-1-0-4	Harikumar K
		CS7.505	Computer Vision	3-1-0-4	Makarand Tapaswi + Anoop Namboodiri
		CS7.403	Statistical Methods in AI	3-1-0-4	Vineet Gandhi

		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
		EC4.404	Mechatronics System Design	3-1-0-4	Nagamanikandan + Harikumar K
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 Structures	3-1-0-4	Jofin George
		CE5.501	Design of Hydraulic Structures	3-1-0-4	Shaik Rehana
		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					
PD Electives		PD1.501	Human Computer Interaction (H1)	3-1-0-2	Raman Saxena
		PD1.411	Product Design Workshop (H)	3-1-0-2	Prakash Yalla
		PD1.502	Design of Wearable Systems (H)	3-1-0-2	Raghu Reddy
		CS5.402	Usability of Software and Digital Products (H2)	3-1-0-2	Raman Saxena + Nimmi Rangaswamy
Business/ Entrepren Electives		CS9.424	Technology Product Entrepreneurship	3-1-0-4	Ramesh Loganathan + Prakash Yalla
		PD2.423	Organizational Operations (H2)	3-1-0-2	Santanu Mandal
		PD2.502	Product Lifecycle Management	3-1-0-4	Ravi Warriar
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				
		CS6.401	Software Engineering	3-1-0-4	Karthik Vaidhyathan
		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
		CS7.505	Computer Vision	3-1-0-4	Makarand Tapaswi + Anoop Namboodiri
	CPS				
		EC4.404	Mechatronics System Design	3-1-0-4	Nagamanikandan + Harikumar K
	IT+X				
		CS4.410	Spatial Data Sciences	3-1-0-4	KS Rajan
CSE/Open Electives					
		CS7.401	Introduction to NLP	3-1-0-4	Manish Shrivastava + Rahul Mishra
		CS8.403	System and Network Security	3-1-0-4	Ankit Gangwal
		CS8.402	Information Security Audit and Assurance	3-1-0-4	Shatrunjay Rawat

		CS7.505	Computer Vision	3-1-0-4	Makarand Tapaswi + Anoop Namboodiri
		CS1.408	Introduction to Game Theory	3-1-0-4	Sujit Gujar
		CS3.404	Internals of Application Servers	3-1-0-4	Ramesh Loganathan
		CS9.432	Cognitive Science and AI	3-1-0-4	Bapi Raju S
		CS9.422	Behavioral Research: Statistical Methods	3-0-1-4	Vinoo Alluri + Vishnu Sreekumar
		CS9.434	Music, Mind, and Technology (Open Elective)	3-1-0-4	Vinoo Alluri
		CE8.401	Disaster Management (40)	3-1-0-4	Jofin George + Shubham Singhal
		CS7.602	Topics in Deep Learning (50)	3-1-0-4	Charu Sharma
		CS9.314	Remote Sensing	3-1-0-4	RC Prasad
		CS9.430	Cognitive Neuroscience (Max:80)	3-1-0-4	Bhaktee Dongaonkar
		CL3.407	Neural Natural Language Generation (H1)	3-1-0-2	Manish Shrivastava + Rahul Mishra
		CS7.603	Topics in Reinforcement Learning	3-1-0-4	Tejas Bodas + Harikumar K
		CS5.401	User Interaction and Usability of Digital Products (Max:30) (Open Elective)	3-1-0-4	Raman Saxena + Nimmi Rangaswamy
		CS4.410	Spatial Data Sciences	3-1-0-4	KS Rajan
		CS6.502	Topics in Software Foundations	3-1-0-4	Venkatesh Choppella
		CG9.600	Cognitive Science Seminar - 0 Credits (For Cognitive Sci Students)	0-2-0-0	Bapi Raju + Priyanka Srivastava
		CS1.409	Quantum Algorithms	3-1-0-4	Shantanav Chakraborty
		CL2.404	Computational Psycholinguistics	3-1-0-4	Rajakrishnan
		CS7.405	Responsible & Safe AI Systems	3-1-0-4	Ponnurangam Kumaraguru
		CS8.502	Topics in Information-Theoretic Privacy	3-1-0-4	Prasad Krishnan + Gowtham Kurri
		CS3.502	Neuroinformatics (Max:30)	3-1-0-4	Vishnu Sreekumar
		MA7.501	Continuous Variable Quantum Information Theory and Computation	3-1-0-4	UttamSingh
		CS4.404	Advanced Data Systems	3-1-0-4	Suraj Sethia
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
		CS7.508	Mathematics of Generative Models	3-1-0-4	Pawan Kumar
		MA7.501	Continuous Variable Quantum Information Theory and Computation	3-1-0-4	UttamSingh

Date: 2.11.2023

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Dean (Academics)