

International Institute of Information Technology, Hyderabad
Course offerings in 2021-22 Semester I (Monsoon)

Version-1 (26.7.2021)

PG Programmes

CD	AD	CNO	CName	Credits	Faculty Name(s)
M.Tech I year I Semester - CSE & CSIS					
In	CS	CS1.304	Data Structures & Algorithms for Problem Solving	3-0-2-6	Vineet Gandhi + Avinash Sharma
In	MA	MA6.301	Maths for Computer Science 1- Probability and Statistics (H1)	3-1-0-2	Girish Varma
In	MA	MA6.302	Maths for Computer Science 2 - Linear Algebra (H2)	3-1-0-2	Indranil Chakraborty
In	CS	CS6.302	Software Systems Development	3-0-2-4	Raghu Reddy + Charu Sharma
In	CS	CS3.304	Advanced Operating Systems	3-0-1-4	Manish Shrivastava
			Total 12-1-5-18		
M.Tech II year I Semester – CSE					
Pr	CS		Bouquet Core	3-1-0-4	
Pr	CS		Bouquet Core	3-1-0-4	
Pr	OT		Area Elective	3-1-0-4	
Pr	CS		Breadth Elective/Project/Independent Study	3-1-0-4	
			Total 12-4-0-16		
* At most 4 credits can be converted to Project/Independent Study in lieu of course credits(66)					
M.Tech II year I Semester – CSIS					
Pr	CS	CSE540	Research in Information Security	3-1-0-4	Ashok Kumar Das
Pr	CS	CSE435	Advanced Computer Networks	3-1-0-4	Ankit Gangwal
Pr	CS		Bouquet Elective	3-1-0-4	
Pr	CS		Area/CS/IT Elective	3-1-0-4	
			Total 12-4-0-16		
M.Tech I Year I Semester – CASE					
In	SE	CE1.501	Structural Dynamics	3-1-0-4	Sunitha P
In	CS	CS0.301	Computer Problem Solving	3-1-0-4	Lini Thomas
In	SE	CE4.501	Finite Element Method	3-1-0-4	Venkateswarlu M
In	SE	CE1.502	Structural Engineering Design Studio	3-1-0-4	Pradeep Kumar R
In	SE		Theory of Elasticity and Plasticity	3-1-0-4	Pravin Kumar Venkat Rao
			Total 15-5-0-20		
M.Tech II Year I Semester – CASE					
In	CS		IoT	3-1-0-4	Vishal Garg + Sachin Chaudhari (Coordinator) + Aftab Hussain
In	CE		CASE Elective-4	3-1-0-4	
In	CE		CASE Elective-5	3-1-0-4	
In	CE		CASE Elective-6	3-1-0-4	
In	CE		CASE Elective-7	3-1-0-4	
			Total 15-5-0-20		

Electives

	CNO	CName	Credits	Faculty Name(s)
Electives for CND Students				
	SC2.310	Selected topics in Instrumental Analysis	3-1-0-4	Tapan Kumar Sau
	SC2.315	Molecular symmetry and quantum mechanics	3-1-0-4	Harjinder Singh
	SC1.310	Open Quantum Systems and Quantum Thermodynamics	3-1-0-4	Samyadeb Bhattacharya
Electives for CLD Students				
	CSE474	Information Retrieval & Extraction	3-1-0-4	Vasudeva Varma
	ECE448	Speech Signal Processing	3-1-0-4	Anil Kumar V + Chiranjeevi Yarra
	CSE485	Intro to Cognitive Science	3-1-0-4	Priyanka Srivastava + Vishnu Sreekumar
	CLG521	Topics in SSMT	3-1-0-4	Anil Vuppala + Rajeev Sangal + Dipti M Sharma
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 registering.				
Signal Processing & Communcations Stream				
	CSE478	Digital Image Processing	3-1-0-4	Ravi Kiran S
	ECE448	Speech Signal Processing	3-1-0-4	Anil Kumar V + Chiranjeevi Yarra
	CSE471	Statistical Methods in AI	3-1-0-4	Anoop Namboodiri
	ECE438	Wireless Communications	3-1-0-4	Ubaidulla
	ECE535	Radar Systems	3-1-0-4	K R Sarma
	ECE431	Signal Detection and Estimation Theory	3-1-0-4	Praful Mankar
VLSI and Embedded Systems Stream				
	ECE468	Analog IC Design	3-1-0-4	Abhishek Srivastava
	ECE469	Design for Testability	3-1-0-4	Ganesh V. Bhutekar, Renia Inc.
	ECE467	CMOS Radio Frequency Integrated Circuit Design	3-1-0-4	Syed Azeemuddin
Robotics Stream				
	CSE483	Mobile Robotics	3-1-0-4	Madhava Krishna
	CSE478	Digital Image Processing	3-1-0-4	Ravi Kiran S
	EC4.401	Robotics: Dynamics and Control	3-1-0-4	Spandan Roy + Nagamanikandan G
	CSE975	Topics in Machine Learning Prerequisite: Statistical Methods in AI	3-1-0-4	Naresh Manwani
	CSE471	Statistical Methods in AI	3-1-0-4	Anoop Namboodiri
Electives for PG CASE students				
		Applied Regression Analysis	3-1-0-4	Venkateshwarlu M
	CSE591	Spatial Informatics	3-1-0-4	Rajan KS
		Theory of Elasticity and Plasticity	3-1-0-4	Pravin Kumar Venkat Rao

			Earthquake Resistant Design of Masonry Structures	3-1-0-4	Pravin Kumar Venkat Rao
		CES623	Advanced Structural Design	3-1-0-4	Sunitha P
		CSE596	Environmental Science & Technology	3-1-0-4	RC Prasad
		CES644	IS Codes on Design and Structural Safety Assessment	3-1-0-4	Pradeep Kumar R
		CES635	Structural Wind Engineering	3-1-0-4	Shaik Rehana
Bouquet Courses -Maximum number of students will be given in IMS					
Theory					
		CS1.405	Modern Complexity Theory	3-1-0-4	Girish Varma
		CSE415	Principles of Programming Languages	3-1-0-4	Amey Karkare, IIT Kanpur
Systems					
		CSE431	Distributed Systems	3-1-0-4	Kishore Kothapalli
		CS4.401	Data Systems	3-1-0-4	Kamal Karlapalem
			Advanced Computer Networks	3-1-0-4	Ankit Gangwal
Artificial Intelligence					
		CSE471	Statistical Methods in AI	3-1-0-4	Anoop Namboodiri
		CSE474	Information Retrieval & Extraction	3-1-0-4	Vasudeva Varma
		CS7.501	Advanced NLP	3-1-0-4	Manish Shrivastava
		CSE447	Data Analytics I	3-1-0-4	Vikram Pudi
IT + X					
		CSE485	Intro to Cognitive Science	3-1-0-4	Priyanka Srivastava + Vishnu Sreekumar
		CSE591	Spatial Informatics	3-1-0-4	Rajan KS
CPS					
		CS3.502	Real-Time Systems	3-1-0-4	Deepak Gangadhran
CSE/Open Electives					
		CSE540	Research in Information Security	3-0-1-4	Ashok Kumar Das
		CS4.404	Advanced Data Systems	3-1-0-4	Krishna Reddy P
		CSE451	Social Science Perspective on HCI (Open Elective)	3-1-0-4	Nimmi Rangaswamy
		CSE512	Distributing Trust and Block Chains (Max: 40 Students)	3-1-0-4	Sujit Gujar
		CSE484	Topics in Applied Optimization	3-1-0-4	Pawan Kumar
		CSE596	Environmental Science & Technology	3-1-0-4	RC Prasad
		CSE486	Introduction to Neural and Cognitive Modeling	3-1-0-4	Bapi Raju S
		CL3.202	Computational Linguistics II: Comp Semantics and Discourse parsing	3-1-0-4	Radhika Mamidi
		CS9.421	Behavioral Research & Experimental Design	3-1-0-4	Vinoo Alluri + Vishnu Sreekumar
		CEG445	Technology Product Entrepreneurship (50)	3-1-0-4	Ramesh Logangathan + Prakash Yalla
		CEW613	Hydrological modelling and Software Development (40)	3-1-0-4	Shaik Rehana

			Eco-Informatics	3-1-0-4	RC Prasad
			Topics in Software Engineering	3-1-0-4	Raghu Reddy + Vasudeva Varma + Pankaj Jalote (IIITD)
			Introduction to Neuroeconomics	3-1-0-4	Kavita Vemuri + Guest Faculty
			Online Privacy	3-1-0-4	Ponnurangam K
Math Electives (Random selection) Maximum no. of students for the following courses is: 50 each					
		CE4.501	Finite Element Method	3-1-0-4	Venkateshwarlu M
		IMA411	Entropy and Information	3-1-0-4	Indranil Chakrabarty
Science Electives (Random selection) Max. no of students for each course is given in the brackets					
		SC2.310	Selected topics in Instrumental Analysis (50)	3-1-0-4	Tapan Kumar Sau
		SC2.315	Molecular symmetry and quantum mechanics (30)	3-1-0-4	Harjinder Singh
		SCI541	Advanced Biomolecular Architecture (50)	3-1-0-4	Deva Priyakumar
		SCI643	Biomolecular Structure Interaction & Dynamics (20) Prerequisites: ABA, GSC or equivalent	3-1-0-4	B.Gopalakrishnan
		SC1.310	Open Quantum Systems and Quantum Thermodynamics (25)	3-1-0-4	Samyadeb Bhattacharya

Date:26.7.2021

Sd/-
Dean (Academics)