

International Institute of Information Technology, Hyderabad
Course offerings in 2019-20 Semester I (Monsoon)

PG Programmes

CD	AD	CNO	CName	Credits	Faculty Name(s)
M.Tech I year I Semester - CSE					
		CSE603	Advanced Problem Solving	4-0-4-6	Avinash Sharma
		CSE531	Operating Systems	3-1-0-4	Shatrunjay Rawat
		CSE611	Discrete Maths & Algorithms	4-2-0-6	Bapi Raju
		CSE505	Scripting & Computer Environments	3-0-2-4	Suryakanth V G
			Total 14-3-6-20		
M.Tech II year I Semester – CSE					
			Bouquet Core	3-1-0-4	
			Area Elective	3-1-0-4	
			Semester project/Bouquet core/Area elective	3-1-0-4	
			Bouquet core / Area elective	3-1-0-4	
			Total 12-4-0-16		
M.Tech I year I Semester – CSIS					
		CSE603	Advanced Problem Solving	4-0-4-6	Avinash Sharma
		CSE531	Operating Systems	3-1-0-4	Shatrunjay Rawat
		CSE611	Discrete Maths & Algorithms	4-2-0-6	Bapi Raju
		CSE505	Scripting & Computer Environments	3-0-2-4	Suryakanth V G
			Total 14-3-6-20		
M.Tech II year I Semester – CSIS					
		CSE703	PG Project-4Cr	0-0-8-4	
		CSE540	Research in Information Security	3-1-0-4	Ashok Kumar Das
		CSE435	Advanced Computer Networks	3-1-0-4	Sujit Gujar + Shatrunjay Rawat
			Bouquet/Area/CS/ECE Elective	3-1-0-4	
			Total 12-1-8-16		
M.Tech I Year I Semester – CASE					
		CES631	Structural Dynamics	3-1-0-4	Pradeep Kumar R
		CSE602	Computer Problem Solving	3-1-2-4	Anoop Namboodiri
		CEA711	Advanced Mechanics of Materials	3-1-0-4	Venkateswarlu M
		CES634	Civil Engg Workshop	3-1-0-4	Sunitha P
			Total 12-4-2-16		
M.Tech II Year I Semester – CASE					
			GT/BS/SI/CS Elective	3-1-0-4	
			SE Elective	3-1-0-4	
			SE Elective	3-1-0-4	
			Open Elective or CASE Project	4/8 Cr	
			Total 9-3-8-16		
M.Tech I Year I Semester - Bioinformatics					
		CSE602	Computer Problem Solving	3-1-2-4	Anoop Namboodiri
		SCI550	Mathematics & Statistics	3-1-0-4	S Suba + Nita Parekh
		SCI541	Advanced Biomolecular Architecture	3-1-0-4	Tapan Kumar Sau + Abhijit Mitra
		SCI651	Introduction to Bioinformatics	3-1-0-4	Nita Parekh

		SCI421	Advanced Biology (Cellular/Molecular/genetic)	3-1-0-4	Vinod PK + Bhaswar G
			Total 15-5-0-20		
M.Tech II Year I Semester – Bioinformatics					
		CSE505	Scripting & Computer Environments	3-0-2-4	Suryakanth V G
		SCI643	Biomolecular Structure Interaction & Dynamics. Prerequisites: ABA or GSC or equivalent	3-1-0-4	Abhijit Mitra + B.Gopal
		SCI400	CCNSB Seminar	0 Cr	Vinod PK
		SCI860	Computational Biology Project / IT Elective	3-1-0-4	
			IT Elective	3-1-0-4	
			Total 12-3-2-16		
MS by Research II Year I Semester - Computational Linguistics					
			MS Thesis	12 Cr	
MPhil / PhD II Year I Semester - Computational Linguistics					
			MPhil Thesis	12 Cr	

Electives

		CNO	CName	Credits	Faculty Name(s)
Electives for BSD Students					
		CSE591	Spatial Informatics	3-1-0-4	Rajan KS
		CES631	Structural Dynamics	3-1-0-4	Pradeep Kumar R
		CEA711	Advanced Mechanics of Materials	3-1-0-4	Venkateshwarlu M
		CEB411	Illumination Engineering	3-1-0-4	Vishal Garg
Electives for CND Students					
		SCI651	Introduction to Bioinformatics	3-1-0-4	Nita Parekh
			Quantum Computing for Natural Sciences	3-1-0-4	Harjinder Singh
Electives for CLD Students					
		CSE971	Speech Technology	3-1-0-4	Suryakanth VG
			Topics in SSMT	3-1-0-4	Rajeev Sangal + Manish Shrivastava + Anil Vuppala
		CSE474	Information Retrieval & Extraction	3-1-0-4	Vasudeva Varma
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 Stream			
		Level 1			
		ECE441	Adaptive Singal Processing	3-1-0-4	Santosh Nannuru
		CSE478/ ECE478	Digital Image Processing	3-1-0-4	Ravi Kiran S
		ECE448	Speech Signal Processing	3-1-0-4	Anil Kumar V
		Level 2			
		CSE971	Speech Technology	3-1-0-4	Suryakanth VG

		CSE471	Statistical Methods in AI	3-1-0-4	Jawahar CV
Communications Stream					
Level 1					
		ECE438	Wireless Communications	3-1-0-4	Sachin Chaudhari
		ECE437	Information Theory and Coding Prerequisites: Basics of probability and random variables is a must.	3-1-0-4	Lalitha V
Level 2					
		ECE531	Topics in Wireless Communications	3-1-0-4	Ubaidulla
VLSI and Embedded Systems Stream					
Level 1					
		ECE468	Analog IC Design	3-1-0-4	Zia Abbas
Level 2					
		ECE469	Design for Testability	3-1-0-4	TBD
Robotics Stream					
Level 1					
		CSE483/ ECE483	Mobile Robotics	3-1-0-4	Madhava Krishna K
		CSE478/ ECE478	Digital Image Processing	3-1-0-4	Ravi Kiran S
Level 2					
		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	Jawahar CV
Electives for PG CASE students					
		CSE591	Spatial Informatics	3-1-0-4	Rajan KS
		CEA621	Finite Element Methods	3-1-0-4	Venkateshwarlu
		CES623	Advanced Structural Design	3-1-0-4	Sunitha P
		CES644	IS Codes on Design and Structural Safety Assessment	3-1-0-4	Pradeep Kumar R
			Structural Wind Engineering	3-1-0-4	Shaik Rehana
			Environmental Science & Technology	3-1-0-4	RC Prasad
Bouquet Courses					
Note for UG CSE/CSD students: Bouquet courses for Computer Science cater to developing breadth in computer science in Foundations and Systems Area. Some of these courses are also Research Stream Courses. A student must take at least 3 courses each from 5 in Foundations and 5 in Systems Bouquet Courses during their entire B.Tech Programme.					
Foundation Courses					
		CSE471	Statistical Methods in AI	3-1-0-4	Jawahar CV
		CSE415	Principles of Programming Languages	3-1-0-4	Venkatesh Choppella
		CSE411	Complexity and Advanced Algorithms	3-1-0-4	Kishore Kothapalli
Systems Courses					
		CSE419	Compilers	3-1-0-4	Suresh Purini
		CSE435	Advanced Computer Networks	3-1-0-4	Sujit Gujar + Shatrunjay Rawat
		CSE431	Distributed Systems	3-1-0-4	Govindarajulu R
		CSE441	Database Systems	3-1-0-4	Vikrampudi
CSE/Open Electives					

		CSE861	Software Quality Engineering	3-1-0-4	Raghu Reddy
		CSE540	Research in Information Security	3-0-1-4	Ashok Kumar Das
		CSE472	Natural Language Processing	3-0-2-4	Manish Shrivastava + Rajeev Sangal
		CSE485	Intro to Cognitive Science	3-1-0-4	Priyanka Srivastava + Vinoo Alluri
		CSE474	Information Retrieval & Extraction	3-1-0-4	Vasudeva Varma
		CSE991	Research Methodology	3-1-0-4	Vinoo Alluri + S Ravi Kiran
		CSE591	Spatial Informatics (Max: 30)	3-1-0-4	Rajan KS
			Data Analytics I	3-1-0-4	Kamal Karlapalem
		CSE451	Social Science Perspective on HCI	3-1-0-4	Nimmi Rangaswamy
		CSE512	Distributing Trust and Block Chains	3-1-0-4	Sujit Gujar
		CSE478	Digital Image Processing	3-1-0-4	Ravi Kiran S
		CSE975	Topics in Machine Learning Prerequisite: Statistical Methods in AI	3-1-0-4	Naresh Manwani
		CSE971	Speech Technology	3-1-0-4	Suryakanth VG
		CSE483	Mobile Robotics	3-1-0-4	Madhava Krishna K
		CSE484	Topics in Applied Optimization	3-1-0-4	Pawan Kumar
			Environmental Science & Technology	3-1-0-4	RC Prasad
Engineering Electives (Random Selection) Max. no of students for each course is given in the brackets					
		CSE464	Game Design and Engineering (60)	3-1-0-4	Kavita Vemuri
		CEG445	Technology Product Entrepreneurship (50)	3-1-0-4	Ramesh Loganathan + Prakash Yella
			Hydrological modelling and Software Development	3-1-0-4	Shaik Rehana
			Eco-Informatics	3-1-0-4	RC Prasad
Math Electives (Random selection) Maximum no. of students for the following courses is: 50 each					
			Advanced Mathematical Structures	3-1-0-4	Girish Varma
		CEA621	Finite Element Methods	3-1-0-4	Venkateswarlu
		IMA404	Number Theory and Cryptology	3-1-0-4	Rajat Tandon
			Maths Elective	3-1-0-4	TBD
Science Electives (Random selection) Max. no of students for each course is given in the brackets					
		SCI439	Quantum Mechanics Symmetry & Spectroscopy (10)	3-1-0-4	Harjinder Singh
		SCI373	CNS Lab (10)	3-1-0-4	Prabhakar B + Deva Priyakumar
		SCI541	Advanced Biomolecular Architecture (50)	3-1-0-4	Tapan Kumar Sau + Abhijit Mitra
		SCI643	Biomolecular Structure Interaction & Dynamics (20) Prerequisites: ABA, GSC or equivalent	3-1-0-4	Abhijit Mitra + B Gopal
		SCI477	Machine Learning for Natural Sciences	3-1-0-4	Deva Priyakumar + Prabhakar B + Vinod PK + Girish Varma
			Design and Principles of Chemical and Biological Sensors	3-1-0-4	Tapan Kumar Sau
			Quantum Computing for Natural Sciences	3-1-0-4	Harjinder Singh
Humanities Electives for UG3 and UG4 (Random selection) Max. no of students for each course is 40					

		HSS482	Digital Humanities Project	3-1-0-4	CEH Faculty
		HSS338	Understanding Raga: Semi Classical Forms of Indian Music	3-1-0-4	Saroja TK
		HSS343a	Introduction to History	3-1-0-4	Aniket Alam
		HSS345a	Introduction to Shakespeare	3-1-0-4	Aruna Chaluvadi
		HSS368	Introduction to Sociology	3-1-0-4	Radhika Krishnan
		HSS316	Introduction to Philosophy	3-1-0-4	Nishad Patnaik
		HSS351a	Intro to Psychology	3-1-0-4	Priyanka Srivastava
			Introduction to Film Studies	3-1-0-4	Sushmita Banerji
			Critical Viewing and Reading	3-1-0-4	Sushmita Banerji
			Technology and Social Movements	3-1-0-4	Radhika Krishnan

Date:10.7.2019

**Sd/-
Dean (Academics)**