

Course offerings in 2020-21 Semester II (Spring)

Version-1 (1.12.2020)

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 / Bouquet core	3-1-0-4	
			Area elective / Bouquet core	3-1-0-4	
			Area /CS/Open elective	3-1-0-4	
			Area /CS/Open elective	3-1-0-4	
			Total 12-4-0-16		
M.Tech I year II Semester – CSIS					
		CSE538	System and Network Security	3-1-0-4	Ashok Kumar Das
		CSE418	Principles of Information Security	3-1-0-4	Ankit Gangawal
			Bouquet core elective	3-1-0-4	
			Bouquet core elective	3-1-0-4	
			Total 12-4-0-16		
M.Tech II year II Semester – CSIS					
		CSE704	PG-Project (8 Cr)	0-0-16-8	
		CSE581	Information Security Audit and Assurance	3-1-0-4	Shatrunjay Rawat
			Bouquet/Area/C/IT Elective	3-1-0-4	
			Total 6-2-16-16		
M.Tech I Year II Semester – CASE					
			Computing Tools	3-1-3-4	Raghu Reddy
			Electvie I	3-1-0-4	
			Electvie II	3-1-0-4	
			Elective III	3-1-0-4	
			Elective IV (Half Course)	3-1-0-2	
			Total 15-5-3-18		
M.Tech II Year II Semester – CASE					
			Elective	3-1-0-4	
			Elective	3-1-0-4	
			Elective	3-1-0-4	
			Elective	3-1-0-4	
			Total 12-4-0-16		
M.Tech II Year II Semester – Bioinformatics					
		SCI400	CCNSB Seminar	0 Cr	Deva Priyakumar
			Advanced Bioinformatics	3-1-0-4	Nita Parekh
		SCI860	Computational Biology Project / Elective	0-0-8-4	
			Domain/IT elective	3-1-0-4	
			Total 6-2-8-12		
Electives					
		CNO	CName	Credits	Faculty Name(s)
Electives for CND Students					
		SCI761	Topics in Nanosciences	3-1-0-4	Tapan Kumar Sau
			Nonlinear Dynamics	3-1-0-4	Vinod PK
			Advanced Bioinformatics	3-1-0-4	Nita Parekh

Electives for CLD Students					
		CLG452	Linguistic Data 2: Collection & Modeling	3-1-0-4	Parameswari Krishnamurthy, HCU
		CS4.501	Social Computing	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 registering.					
Signal Processing Stream					
		Level 1			
		ECE442	Time Frequency Analysis	3-1-0-4	Anil Kumar V
		ECE431	Signal Detection and Estimation Theory	3-1-0-4	Praful Mankar
		Level 2			
			Medical Image Analysis	3-1-0-4	Jayanthi Sivaswamy
		CSE578	Computer Vision	3-1-0-4	Anoop Namboodiri
		CSE471	Statistical Methods in AI	3-1-0-4	Vineet Gandhi
Communications Stream					
		Level 1			
		ECE431	Signal Detection and Estimation Theory	3-1-0-4	Praful Mankar
		EC5.205	Introduction to Coding Theory	3-1-0-2	Lalitha V
		Level 2			
			Applied Electromagnetics	3-1-0-4	K R Sarma
		ECE537	Topics in Coding Theory	3-1-0-4	Prasad Krishnan
VLSI and Embedded Systems Stream					
		Level 1			
			Design Verification and System Verilog	3-1-0-4	Ganesh Bhuthekar
		ECE463	Digital VLSI Design	3-1-0-4	Zia Abbas
		Level 2			
			Applied Electromagnetics	3-1-0-4	K R Sarma
		ECE562	Flexible Electronics	3-1-0-4	Aftab Hussain
Robotics Stream					
		Level 1			
			Robotics: Planning and Navigation	3-1-0-4	Madhava Krishna K
			Intro to UAV Design	3-1-0-4	Harikumar Kandath
		Level 2			
		CSE578	Computer Vision	3-1-0-4	Anoop Namboodiri
		CSE471	Statistical Methods in AI	3-1-0-4	Vineet Gandhi
		ECE551	Advances in Robotics & Control	3-1-0-4	Spandan Roy
Electives for PG CASE Students					
		CES442	Disaster Management	3-1-0-4	Sunitha P
			Advanced Structural Analysis	3-1-0-4	Pravin Kumar Venkat Rao
		CEW612	Design of Hydraulic Structures	3-1-0-4	Shaik Rehana
		CES617	Stability of Structures	3-1-0-4	Sunitha P
		CES641	Earthquake Engineering	3-1-0-4	Pradeep Kumar R
		CEG461	Remote Sensing	3-1-0-4	RC Prasad
		CEG422	Green Buildings	3-1-0-4	Vishal Garg
		CES771	CASE Project	4 credits	
Electives for PG Bioinformatics Students					
			Nonlinear Dynamics	3-1-0-4	Vinod PK
		SCI761	Topics in Nanosciences	3-1-0-4	Tapan Kumar Sau
Bouquet Courses					
Foundation Courses - Registration Limit: 200					

	CSE481	Optimization Methods	3-1-0-4	Jawahar CV
		Adv. Algorithms	3-1-0-4	Kishore Kothapalli
Systems Courses - Registration Limit: 200				
	CSE441	Database Systems	3-1-0-4	Krishna Reddy
	CSE461	Software Engineering	3-1-0-4	Raghu Reddy
	CSE431	Distributed Systems (Max:100) Prerequisite: Operating Systems. Networks desirable	3-1-0-4	Lini Thomas
AI Courses				
	CSE471	Statistical Methods in AI	3-1-0-4	Vineet Gandhi
		Computer Vision	3-1-0-4	Anoop Namboodiri
CSE/Open Electives				
	CSE538	System and Network Security	3-1-0-4	Ashok Kumar Das
	CSE595	ICTs for Development (Free Elective)	3-1-0-4	Nimmi Rangaswamy
	CSE581	Information Security Audit and Assurance	3-1-0-4	Shatrunjay Rawat
	CS4.501	Social Computing	3-1-0-4	Vasudeva Varma
	CSE578	Computer Vision	3-1-0-4	Anoop Namboodiri
	CSE498	Introduction to Game Theory	3-1-0-4	Sujit Gujar
	CSE563	Internals of Application Servers	3-1-0-4	Ramesh Loganathan
	CSE586	Cognitive Neuroscience	3-1-0-4	Kavita Vemuri
	CSE588	Music, Mind, and Technology (30)	3-1-0-4	Vinoo Alluri
	CSE567	Usability Engineering	3-1-0-4	Priyanka Srivastava
	CS7.601	Deep Learning: Theory and Practices (Max:80)	3-1-0-4	Naresh Manwani
		Distributed Data Systems	3-1-1-4	Kamal Karlapalem
		Advanced Optimization: Theory and Applications	3-1-0-4	Pawan Kumar
		Behavioral Research: Statistical Methods	3-1-0-4	Bapi Raju S + Vinoo Alluri
Engineering Electives (Random Selection) Max. no of students for each course is given in the brackets				
	CES442	Disaster Management (40)	3-1-0-4	Sunitha P
	CEG461	Remote Sensing (40)	3-1-0-4	RC Prasad
	CEG462	Hydro Informatics (40)	3-1-0-4	Shaik Rehana
		Green Buildings (40)	3-1-0-4	Vishal Garg
Math Electives (Random selection) Maximum no. of students for the following courses is: 50 each				
	IMA303	Differential Equations	3-1-0-4	Lakshmi Burra
	IMA409	Multivariate Analysis	3-1-0-4	Venkateshwarlu M
		Linear partial differential equations and variational calculus	3-1-0-4	Samyadeb Bhattacharya
Science Electives (Random selection) Max. no of students for each course is given in the brackets				
		Molecular Modeling and Simulations (20)	3-1-0-4	Deva Priyakumar
		Nonlinear Dynamics	3-1-0-4	Vinod PK
		Introduction to Particle Physics	3-1-0-4	Subhadip Mitra
	SCI761	Topics in Nanosciences (25)	3-1-0-4	Tapan Kumar Sau
		Advanced Bioinformatics	3-1-0-4	Nita Parekh
	SCI477	Machine Learning for Natural Sciences(10)	3-1-0-4	Nita Parekh + Girish Varma + Prabhakar B
	SC2.301	Physics of Soft Condensed Matter (40)	3-1-0-4	Marimuthu Krishnan
		New Elective		Bhaswar Ghosh
Humanities Electives for UG3 and UG4 (Random selection) Max. no of students for each course is 40				
	HSS482	Digital Humanities Project	0-0-8-4	CEH Faculty (Register with faculty consent only)

		HSS317	Ethics	3-1-0-4	Don Deruz
		CSE595	ICTs for Development	3-1-0-4	Nimmi Rangaswamy
			Readings in Indian Literatures	3-1-0-4	Sushmita Banerjee
		HSS337	Comprehension of Indian Music	3-1-0-4	TK Saroja
		HS3.301	Alternate Religious Traditions in Indian History	3-1-0-4	Nilam Kakati + Aniket Alam
			Introduction to Philosophy of Technology	3-1-0-4	Ashwin Jayanthi
			Literature, History and Belonging in Hyderabad	3-1-0-4	Nazia Akhter
		HSS445	Literature –American Classics	3-1-0-4	Aruna Chaluvadi
			Science, Technology and Society (15)	3-1-0-4	Radhika Krishnan