PG Programmes

CD	AD	CNO	CName	Credits	Faculty Name(s)
M.T	ech I y	ear I Semo	ester - CSE		
			Data Structures & Algorithms for	2026	Winget Condhi Avincel Champs
			Problem Solving	3-0-2-0	Vineet Gandhi + Avinash Sharma
			Maths for Computer Science 1-	3 1 0 2	Girish Varma
			Probability and Statistics (H1)	3-1-0-2	Oli isii Valilia
			Maths for Computer Science 2 - Linear	3-1-0-2	Indranil Chakrabarthy
			Algebra (H2)		•
			Software Systems Development		Raghu Reddy
			Advanced Operating Systems	3-0-1-4	Manish Shrivastava
			Total 12-1-5-18		
M.T	ech II	year I Sem	ester – CSE		
			Bouquet Core	3-1-0-4	
			Area Elective	3-1-0-4	
			Semester project/Bouquet core/Area	3-1-0-4	
			elective		
			Bouquet core / Area elective	3-1-0-4	
			Total 12-4-0-16		
M.T	ech I y	ear I Seme	ester – CSIS		
			Data Structures & Algorithms for	3026	Vineet Gandhi + Avinash Sharma
			Problem Solving	3-0-2-0	Vincet Gandin + Avinasii Sharma
			Maths for Computer Science 1-	3_1_0_2	 Girish Varma
			Probability and Statistics (H1)	3-1-0-2	Girisii variia
			Maths for Computer Science 2 - Linear	3-1-0-2	Indranil Chakrabarthy
			Algebra (H2)	3-1-0-2	murami Chakrabaruny
			Software Systems Development	3-0-2-4	Raghu Reddy
			Advanced Operating Systems	3-0-1-4	Manish Shrivastava
			Total 12-1-5-18		
M.T	ech II	year I Sem	ester – CSIS		
			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.T	ech I Y	ear I Sem	ester – CASE		
			Structural Dynamics	3-1-0-4	Sunitha P
			Computer Problem Solving	3-1-0-4	Anoop Namboodiri
			Finite Element Method	3-1-2-4	Venkateswarlu M
			Structural Engineering Design Studio I	3_1 0 2	Pradeep Kumar R
			(H2)	3-1-0-2	Tradeep Kumar K
			Seminar (H1)	3-1-0-2	Pradeep Kumar R
			Total 12-4-2-16		
M.T	ech II	Year I Sen	nester – CASE		
			GT/BS/SI/CS Elective	3-1-0-4	
			SE Elective	3-1-0-4	
			SE Elective	3-1-0-4	

		On an Election of CASE Duction	1/9 C::	
		Open Elective or CASE Project	4/8 Cr	
		Total 9-3-8-16		
M.T	ech II Year I Sen	nester – Bioinformatics		
	CSE505	Scripting & Computer Environments	3-0-2-4	Online Course
	SCI643	Biomolecular Structure Interaction & Dynamics. Prerequisites: ABA or GSC or equivalent	3-1-0-4	B.Gopalakrishnan
	SCI400	CCNSB Seminar	0 Cr	Deva Priyakumar
	SCI860	Computational Biology Project / IT Elective	3-1-0-4	
		IT Elective	3-1-0-4	
		Total 12-3-2-16		
MS l	y Research II Y	ear I Semester - Computational Lingu	istics	
		MS Thesis	12 Cr	
MPh	il / PhD II Year	I Semester - Computational Linguistic	s	
		MPhil Thesis	12 Cr	

Electives

	CNO	CName	Credits	Faculty Name(s)
Elec	tives for CND St	udents		
	SCI347	Selected topics in Instrumental Analysis	3-1-0-4	Tapan Kumar Sau
		Molecular symmetry and quantum mechanics	3-1-0-4	Harjinder Singh
		Open Quantum Systems and Quantum Thermodynamics	3-1-0-4	Samyadeb Bhattacharya
Elec	tives for CLD St	 udents		
	CSE474	Information Retrieval & Extraction	3-1-0-4	Vasudeva Varma
	ECE448	Speech Signal Processing	3-1-0-4	Anil Kumar V
	CSE485	Intro to Cognitive Science	3-1-0-4	Priyanka Srivastava
		Syntactic Structures in Indian Languages	3-1-0-4	Parameshwari Krishnamurthy (HCU)
ECI		applicable as CSE/Open Electives)		
Note	•	O Students: Please read carefully the guid	delines for	r choosing of ECE Electives before
	Signal Processin	ng Stream		
	Level 1			
	CSE478	Digital Image Processing		Ravi Kiran S
	ECE448	Speech Signal Processing	3-1-0-4	Anil Kumar V
	Level 2			
	CSE471	Statistical Methods in AI	3-1-0-4	Jawahar CV
	Communication	s Stream		
	Level 1			
	ECE438	Wireless Communications	3-1-0-4	Ubaidulla

		Level 2			
		ECE535	Radar Systems	3-1-0-4	K R Sarma
	VLSI	and Embe	dded Systems Stream		
		Level 1			
		ECE468	Analog IC Design	3-1-0-4	Abhishek Srivastava + Zia Abbas
		ECE462	Principles of Semiconductor Devices	3-1-0-4	Anshu Sarje
		Level 2			
		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
	Robot	tics Stream	1		
		Level 1			
			Mobile Robotics	+	Madhava Krishna
		CSE478	Digital Image Processing		Ravi Kiran S
			Robotics: Dynamics and Control	3-1-0-4	Spandan Roy + Abhishek Sarkar
		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
		CSE4/I	Statistical Methods III AI	J-1 -0- 4	Jawanai C v
Elect	tives fo	r PG CAS	EE students		
			Spatial Informatics	3-1-0-4	Rajan KS
			Plastic Theory of Structures		Venkateshwarlu M
		CES623	Advanced Structural Design	3-1-0-4	Sunitha P
		CSE596	Environmental Science & Technology	3-1-0-4	RC Prasad
		CEB411	Illumination Engineering	3-1-0-4	Vishal Garg
		CES644	IS Codes on Design and Structural Safety Assessment		Pradeep Kumar R
		CES635	Structural Wind Engineering	3-1-0-4	Shaik Rehana
		ourses (Fo	r UG2K18 batch students only)-Maxir	num nun	iber of students given in IMS
Theo	ry				
			Modern Complexity Theory	3-1-0-4	Girish Varma
		CSE415	Principles of Programming Languages	3-1-0-4	Venkatesh Ch
		CSE418	Principles of Information Security	3-1-0-4	Srinathan Kannan
Syste	ems				
		CSE431	Distributed Systems		Kishore Kothapalli
			Data Systems	3-1-0-4	Kamal Karlapalem
		CSE419	Compilers	3-1-0-4	Suresh Purini
Artif	icial I	ntelligance			
		CSE471	Statistical Methods in AI	3-1-0-4	Jawahar CV
		CSE474	Information Retrieval & Extraction	3-1-0-4	Vasudeva Varma
			Advanced NLP	3-1-0-4	Manish Shrivastava
		CSE447	Data Analytics I	3-1-0-4	Vikram Pudi
IT+	$\overline{\mathbf{X}}$				
		CSE485	Intro to Cognitive Science	3-1-0-4	Priyanka Srivastava
		CSE591	Spatial Informatics	3-1-0-4	Rajan KS

CPS				
		Real-Time Systems	3-1-0-4	Deepak Gangadhran
Bouquet (Courses (Fo	r other students)-Maximum number o	f student	s given in IMS
Foundatio	on			
		Modern Complexity Theory	3-1-0-4	Girish Varma
	CSE415	Principles of Programming Languages	3-1-0-4	Venkatesh Ch
	CSE418	Principles of Information Security	3-1-0-4	Srinathan Kannan
	CSE471	Statistical Methods in AI	3-1-0-4	Jawahar CV
Systems				
	CSE435	Advanced Computer Networks	 	Sujit Gujar + Shatrunjay Rawat
	CSE431	Distributed Systems	3-1-0-4	Kishore Kothapalli
	CSE419	Compilers	3-1-0-4	Suresh Purini
		Data Systems	3-1-0-4	Kamal Karlapalem
CSE/Ope	n Electives			
	CSE474	Information Retrieval & Extraction	3-1-0-4	Vasudeva Varma
		Advanced NLP	3-1-0-4	Manish Shrivastava
	CSE447	Data Analytics I	3-1-0-4	Vikram Pudi
	CSE503	Concurrent Data Structures	3-1-0-4	Govindarajulu R
	CSE540	Research in Information Security	3-0-1-4	Ashok Kumar Das
	CSE485	Intro to Cognitive Science	3-1-0-4	Priyanka Srivastava
	CSE591	Spatial Informatics	3-1-0-4	Rajan KS
		Real-Time Systems	3-1-0-4	Deepak Gangadhran
		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
	CSE478	Digital Image Processing	3-1-0-4	Ravi Kiran S
	CSE975	Topics in Machine Learning Prerequisite: Statistical Methods in AI		Naresh Manwani
	CSE483	Mobile Robotics	3-1-0-4	Madhava Krishna
	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	Dipti M Sharma
		Advaced Graphics, AR & VR	3-1-0-4	Avinash Sharma + PJ Narayanan
		Behavioral Research & Experimental Design	3-1-0-4	Vinoo Alluri + Bapi Raju S
		Open Quantum Systems and Quantum Thermodynamics	3-1-0-4	Samyadeb Bhattacharya
 E ngineer i	ng Electives	(Random Selection) Max. no of stude	nts for ea	ach 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 Logangathan + Prakash Yalla
		CEW613	Hydrological modelling and Software Development (40)	3-1-0-4	Shaik Rehana
N/F /1		(D. 1			6 H ·
viati	n Electi	ves <u>(Rand</u>	om selection) Maximum no. of studen	ts for the	following courses is: 50 each)
		CEA621	Finite Element Methods	3-1-0-4	Venkateshwarlu M
		IMA301	Functional Analysis	3-1-0-4	Lakshmi Burra
		IMA411	Entropy and Information	3-1-0-4	Indranil Chakrabarthy