Course offerings in 2021-22 Semester II (Spring)

Version-4 (20.12.2021)

UG Programmes

CD	AD	CNO	CName	Credits	Faculty Name(s)
B.Tech I year II Semester - CSE&CSD					
Pr	CS	CS6.201	Introduction to Software Systems (H1)	1-0-3-2	Raghu Reddy
Pr	CS	CS1.201	Data Structures and Algorithms	3-1-3-5	Ravikiran S + Sujit Gujar
Pr	CS	CS2.201	Computer Systems Organization	3-1-0-4	Praveen Paruchuri
Pr	EC	CS3.303	Introduction to IoT	1-0-3-3	Deepak Gangadharan
Pr	MA	MA2.101	Linear Algebra	3-1-0-4	Girish Varms + Indranil Ch
In	OT	OC2.102	Arts-2	2-0-0-2	CEH Lecturers
In	OT	OC1.102	Sports-2	0-2-0-1	Physical Education Centre
			Total 14-5-9-21		
B.Tech I year II Semester - ECE & ECD					
Pr	EC	EC2.103	Analog Electronic Circuits	3-1-3-5	Abhishek Srivastava
Pr	CS	CS1.201	Data Structures and Algorithms	3-1-3-5	Ravikiran S + Sujit Gujar
Pr	MA	MA2.101	Linear Algebra	3-1-0-4	Girish Varms + Indranil Ch
Pr	EC	EC5.102	Information and Communication	3-1-0-4	Lalitha V
In	OT	OC2.102	Arts-2	2-0-0-2	CEH Lecturers
In	OT	OC1.102	Sports-2	0-2-0-1	Physical Education Centre
			Total 14-6-6-21		
B.Tech I year II Semester – CND					
Pr	CS	CS6.201	Introduction to Software Systems (H1)	1-0-3-2	Raghu Reddy
Pr	CS	CS1.201	Data Structures and Algorithms	3-1-3-5	Ravikiran S + Sujit Gujar
Pr	MA	MA2.101	Linear Algebra	3-1-0-4	Girish Varms + Indranil Ch
Pr	CNS	SC4.102	Computing in Sciences II (H2)	3-1-0-2	Prabhakar B
Pr	CNS	SC1.102	Classical Mechanics (H1)	3-1-0-2	Harjinder Singh
Pr	CNS	SC1.101	Electrodynamics (H2)	3-1-0-2	Harjinder Singh
Pr	CNS	SC2.101	General and Structural Chemistry	3-1-0-4	Tapan Kumar Sau
In	OT	OC2.102	Arts-2	2-0-0-2	CEH Lecturers
In	OT	OC1.102	Sports-2	0-2-0-1	Physical Education Centre
			Total 18-8-6-24		
B.Tech I year II Semester – CLD					
Pr	MA	MA2.101	Linear Algebra	3-1-0-4	Girish Varms + Indranil Ch
Pr	CS	CS6.201	Introduction to Software Systems (H1)	1-0-3-2	Raghu Reddy
Pr	CS	CS1.201	Data Structures and Algorithms	3-1-3-5	Ravikiran S + Sujit Gujar
Pr	CS	CS2.201	Computer Systems Organization	3-1-0-4	Praveen Paruchuri
Pr	CL	CL1.102	Introduction to Linguistics II	3-1-0-4	Aditi Mukherjee
Pr	CL	CL3.101	Computational Linguistics 1	3-1-0-4	Radhika Mamidi
In	OT	OC2.102	Arts-2	2-0-0-2	CEH Lecturers
In	OT	OC1.102	Sports-2	0-2-0-1	Physical Education Centre
			Total 18-7-6-26		
B.Tech I year II Semester – CHD					
Pr	MA	MA3.101	Linear Algebra	3-1-0-4	Girish Varms + Indranil Ch
Pr	CS	CS6.201	Introduction to Software Systems (H1)	1-0-3-2	Raghu Reddy
Pr	CS	CS1.201	Data Structures and Algorithms	3-1-3-5	Ravikiran S + Sujit Gujar
Pr	HS	HS4.102	The Making of Contemporary India	3-1-0-4	Nazia Akhtar
Pr	HS	HS0.201	Thinking and Knowing in the Human Sciences-I	3-1-0-4	Don Dcruz + Sushmita Banerjee
In	OT	OC2.102	Arts-2	2-0-0-2	CEH Lecturers
In	OT	OC1.102	Sports-2	0-2-0-1	Physical Education Centre
			Total 15-6-6-22		
B.Tech II year II Semester – CSE&CSD & LCD2K21					
Pr	CS	CS6.301	Design and Analysis of Software Systems	3-1-0-4	Ramesh Loganathan
Pr	CS	CS7.301	Machine, Data and Learning	3-1-0-4	Vikram Pudi

Pr	HS	HS8.102	Intro to Human Sciences	3-1-0-4	Don Dcruz + Sushmita Banerjee
Pr	SC	SC1.111	Science II	3-1-0-4	Nita Parekh + Krishnan M
Pr	CS		Breadth Elective-1	3-1-0-2	
Pr	CS		Breadth Elective-2	3-1-0-2	
Pr	CS		Breadth Elective-3	3-1-0-2	
In	HS	OC3.102	Value Education II	0-2-0-2	Radhika M (Coordinator)
In	OT	OC1.101	Sports-1	0-2-0-1	Physical Education Centre
			Total 18-11-0-25		
Theory/Foundations Courses - Max limit 90 in each course					
		CS9.312	Introduction to Quantum Information and Computation (H1)	3-1-0-2	Indranil Chakrabarty
		CS1.303	Program Verification (H1)	3-1-0-2	Venkatesh Choppella
		CS8.301	Introduction to Information Security (H2)	3-1-0-2	Ashok Kumar Das
		CS1.305	Introduction to Algorithms Engineering (H2)	3-1-0-2	Kishore Kothapalli
Systems/Applications Courses - Max limit 90 in each course					
		CS3.302	Software Programming for Performance (H2)	3-1-0-2	Suresh Purini
		CS7.303	Digital Signal Analysis (H1)	3-1-0-2	Anil Kumar V
		CS9.311	Introduction to Brain and Cognition (H2)	3-1-0-2	Kavita V + Vishnu Sreekumar
		CS7.302	Computer Graphics (H1)	3-1-0-2	Avinash Sharma
			Performance modeling of computer systems(H2)	3-1-0-2	Tejas Bodas
B.Tech II year II Semester ECE & ECD & LED2K21					
Pr	EC	EC5.203	Communication Theory	3-1-0-4	Praful Mankar
Pr	EC	EC2.102	Electronics Workshop I	0-1-3-2	Chiranjeevi Yarra + Syed
Pr	EC	EC2.204	Intro to Processor Architecture (H1)	3-1-0-2	Deepak Gangadharan
Pr	HS	HS8.102	Intro to Human Sciences	3-1-0-4	Don Dcruz + Sushmita Banerjee
Pr	EC		Stream Foundation-1	3-1-0-2	
Pr	MA		Maths Elective	3-1-0-4	
In	HS	OC3.102	Value Education II	0-2-0-2	Radhika M (Coordinator)
In	OT	OC1.101	Sports-1	0-2-0-1	Physical Education Centre
			Total 15-10-3-21		
Electives for UG2 ECE/ECD/LED Students					
		EC1.201	Intro to Bio Electronics (H2)	3-1-0-2	Syed Azeemuddin + Prabhakar
		EC5.205	Introduction to Coding Theory(H1)	3-1-0-2	Prasad Krishnan
		EC1.202	Bioinstrumentation and Devices (H2)	3-1-0-2	Anshu Sarje
B.Tech II year II Semester CND					
Pr	CS	CS2.201	Computer Systems Organization	3-1-0-4	Praveen Paruchuri
Pr	CS	CS7.301	Machine, Data and Learning	3-1-0-4	Vikram Pudi
Pr	CS	CS6.301	Design and Analysis of Software Systems	3-1-0-4	Ramesh Loganathan
Pr	CNS	SC1.204	Thermodynamics (H1)	3-1-0-2	Subhadip Mitra
Pr	CNS	SC1.205	Statistical Mechanics (H2)	3-1-0-2	Diganta Das
Pr	CNS	SC2.203	Biomolecular Structures (H1)	3-1-0-2	Marimuthu Krishnan
Pr	CNS	SC2.202	Organic Chemistry (H2)	3-1-0-2	Bhaswar Ghosh
Pr	CNS	SC4.110	Science Lab-1 (H1)	0-0-3-2	Tapan Kumar Sau + Prabhakar B
Pr	CNS	SC4.111	Science Lab-2 (H2)	0-0-3-2	Tapan Kumar Sau + Prabhakar B
In	HS	OC3.102	Value Education II	0-2-0-2	Radhika M (Coordinator)
In	OT	OC1.101	Sports-1	0-2-0-1	Physical Education Centre
			Total 18-10-3-27		
B.Tech II year II Semester CLD					
Pr	CL	CL1.204	Language Typology and Universals	3-1-0-4	Radhika Mamidi
Pr	CL	CS7.401	Introduction to NLP	3-1-0-4	Manish Shrivastava
Pr	CS	CS7.303	Digital Signal Analysis (H1)	3-1-0-2	Anil Kumar V
Pr	CS	CS6.301	Design and Analysis of Software Systems	3-1-0-4	Ramesh Loganathan

Pr	CS	CS7.301	Machine, Data and Learning	3-1-0-4	Vikram Pudi
Pr	HS	HS8.102	Introduction to Human Sciences	3-1-0-4	Don Dcruz + Sushmita Banerjee
In	HS	OC3.102	Value Education II	0-2-0-2	Radhika M (Coordinator)
<mark>In</mark>	<mark>OT</mark>	<mark>OC1.101</mark>	<mark>Sports-1</mark>	<mark>0-2-0-1</mark>	<mark>Physical Education Centre</mark>
			Total 18-10-0-25		

B.Tech II year II Semester CHD

Pr	CS	CS2.201	Computer System Organization	3-1-0-4	Praveen Paruchuri
Pr	CS	CS7.301	Machine, Data and Learning	3-1-0-4	Vikram Pudi
Pr	CS	CS6.301	Design and Analysis of Software Systems	3-1-0-4	Ramesh Loganathan
Pr	HS	HS0.302	Research Methods in Human Sciences	3-1-0-4	Aniket Alam
Pr	HS	HS7.301	Science, Technology and Society	3-1-0-4	Radhika Krishnan
Pr	HS	HS2.302	Gender, Kinship, and State Law **(H2)**	3-1-0-2	Rama Srinivasan
In	HS	OC3.102	Value Education II	0-2-0-2	Radhika M (Coordinator)
<mark>In</mark>	<mark>OT</mark>	<mark>OC1.101</mark>	<mark>Sports-1</mark>	<mark>0-2-0-1</mark>	<mark>Physical Education Centre</mark>
			Total 18-10-0-25		

B.Tech III year II Semester – CSE:

Pr	CS	CS9.301/ CS9.303	BTP I / CSE-Honours Project 2	0-2-6-2	
Pr	CS		Bouquet Course – 2	3-1-0-4	
Pr	CS		Bouquet Course – 3	3-1-0-4	
Pr	HS		HSS Elective - 2	3-1-0-4	
Pr	OT		Open Elective - 2	3-1-0-4	
			Total 12-6-6-18		

B.Tech III year II Semester – CSD & LCD2K20

Pr	CS	CS9.303	CSE-Honours Project 2	0-2-6-2	
Pr	CS		Bouquet Course – 2	3-1-0-4	
Pr	CS		Bouquet Course – 3	3-1-0-4	
Pr	HS		HSS Elective - 2	3-1-0-4	
Pr	OT		Open Elective - 2	3-1-0-4	
Pr	CS		Stream Elective - 2	3-1-0-4	
			Total 15-7-6-22		

B.Tech III year II Semester – ECE:

Pr	SC	SC1.111	Science II	3-1-0-4	Nita Parekh + Krishnan M
Pr	EC	EC2.202	Electronics Workshop II	3-1-3-4	Zia Abbas
Pr	EC		Stream Elective - 2	3-1-0-4	
Pr	HS		HSS Elective - 2	3-1-0-4	
Pr	EC	EC9.301/ EC9.303	BTP-I/ECE-Honours Project 2	0-2-6-2	
			Total 12-6-9-18		

B.Tech III year II Semester – ECD & LED2K20

Pr	SC	SC1.111	Science II	3-1-0-4	Nita Parekh + Krishnan M
Pr	EC	EC2.202	Electronics Workshop II	3-1-3-4	Zia Abbas
Pr	EC		Stream Elective - 2	3-1-0-4	
Pr	EC		Stream Elective - 3	3-1-0-4	
Pr	HS		HSS Elective - 2	3-1-0-4	
Pr	EC	EC9.303	ECE-Honours Project 2	0-2-6-2	
			Total 15-7-9-22		

B.Tech III year II Semester – CND

Pr	CNS	SC9.303	CNS-Honours Project II	0-2-6-2	
Pr	HS	HS8.102	Intro to Human Sciences	3-1-0-4	Don Dcruz + Sushmita Banerjee
Pr	CNS	SC4.110	Science Lab-1 (H1)	0-0-3-2	Tapan Kumar Sau + Prabhakar B
Pr	CNS	SC4.111	Science Lab-2 (H2)	0-0-3-2	Tapan Kumar Sau + Prabhakar B
Pr	CNS		CNS Elective-1	3-1-0-4	

Pr	CNS		CNS Elective-2	3-1-0-4	
Pr	CS		CS Elective-2	3-1-0-4	
Pr	CNS	SC9.600	CCNSB Seminar	0 Cr.	Prabhakar B (Coordinator)
			Total 12-6-6-22		

B.Tech III year II Semester – CLD:

Pr	SC	SC1.111	Science II	3-1-0-4	Nita Parekh + Krishnan M
Pr	CL	CL9.303	CL-Honours Project 2	0-2-6-2	
Pr	CL		CL-Stream Elective 1	3-1-0-4	
Pr	CS		CS Elective 1	3-1-0-4	
Pr	OT		Open Elective - 1	3-1-0-4	
Pr	HS		HSS Elective - 2	3-1-0-4	
			Total 18-8-6-22		

B.Tech III year II Semester – CHD

Pr	HS	HS9.303	HS-Honours Project 2	0-2-6-2	
Pr	SC	SC1.111	Science II	3-1-0-4	Nita Parekh + Krishnan M
Pr	CS		CS-Elective 2	3-1-0-4	
Pr	CS		CS-Elective 3	3-1-0-4	
Pr	OT		Open Elective 1	3-1-0-4	
Pr	HS		Human Sciences Elective 3	3-1-0-4	
			Total 15-7-6-22		

B.Tech IV year II semester – CSE:

Pr	CS		Bouquet Core 5	3-1-0-4	
Pr	HS		Ethics 2*	3-1-0-2	Anket Alam (Coordinator)
Pr	OT		Open Elective 5	3-1-0-4	
Pr	HS		HS Elective 3	3-1-0-4	
Pr	SC		Science Elective 2	3-1-0-4	
			Total 15-5-0-18		

B.Tech IV year II semester - CSD and LCD2K19

Pr	CS	CS9.403	CS-Honours Project 4	0-2-6-2	
Pr	CS		Bouquet Core 5	3-1-0-4	
Pr	HS		Ethics 2*	3-1-0-2	Anket Alam (Coordinator)
Pr	OT		Open Elective 5	3-1-0-4	
Pr	HS		HSS Elective 3	3-1-0-4	
Pr	SC		Science Elective 2	3-1-0-4	
			Total 15-7-6-20		

B.Tech IV year II Semester – ECE:

Pr	HS		Ethics 2*	3-1-0-2	Anket Alam (Coordinator)
Pr	OT		Open Elective 4	3-1-0-4	
Pr	OT		Open Elective 5	3-1-0-4	
Pr	SC		Science Elective 2	3-1-0-4	
Pr	HS		HSS Elective 3	3-1-0-4	
			Total 15-5-0-18		

B.Tech IV year II Semester – ECD and LED2K19

Pr	EC	EC9.403	ECE-Honours Project 4	0-2-6-2	
Pr	HS		Ethics 2*	3-1-0-2	Anket Alam (Coordinator)
Pr	OT		Open Elective 4	3-1-0-4	
Pr	OT		Open Elective 5	3-1-0-4	
Pr	SC		Science Elective 2	3-1-0-4	
Pr	HS		HSS Elective 3	3-1-0-4	
Pr	EC		Stream Elective 6	3-1-0-4	
			Total 18-8-6-24		

B.Tech IV year II Semester – CND

Pr	HS		Ethics 2*	3-1-0-2	Anket Alam (Coordinator)

Pr	CNS	SC9.403	CNS-Honours Project 4	0-2-6-2	
Pr	CNS		CNS Elective 4	3-1-0-4	
Pr	CNS		CNS Elective 5	3-1-0-4	
Pr	CS		CS Elective 5	3-1-0-4	
Pr	HS		HSS Elective 1	3-1-0-4	
Pr	CNS	SC9.600	CCNSB Seminar 4	0 Cr	Prabhakar B (Coordinator)
			Total 15-7-6-20		

B.Tech IV year II Semester - CLD

Pr	CL	CL9.403	CL-Honours Project 4	0-2-6-2	
Pr	HS		Ethics 2*	3-1-0-2	Anket Alam (Coordinator)
Pr	MA		Maths Elective	3-1-0-4	
Pr	CL		CL Elective 4	3-1-0-2	
Pr	CS		CS Elective 4	3-1-0-4	
Pr	OT		Open Elective 3	3-1-0-4	
			Total 15-7-6-18		

* Ethics2 Sub Electives

Pr	HS	HS0.206	Thinking through moral problems	3-0-0-2	Ashwin Jayanti
Pr	HS	HS0.207	Science & Technology Critical Perspectives	3-0-0-2	Harjinder Singh
Pr	HS	HS0.208	Questions of Crime and Punishment in Literature	3-0-0-2	Nazia Akhtar
Pr	HS	HS0.209	Exploring Masculinities	3-0-0-2	Vindhya Undurti, TISS, Hyd
Pr	HS	HS0.210	Literature and the Ethics of telling a Story	3-0-0-2	Sushmita Banerjee
Pr	HS	HS0.211	ValuesEthics and AI	3-0-0-2	Rajeev Sangal + Shatrunjay Rawat

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	Srinathan K
			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	Sudipta Banerjee + Avinash Sharma

			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	0-2-6-14	
			Total 12-4-0-16		

M.Tech I Year I Semester – Product Design and Mangement

In	CS	CS6.401	Software Engineering	3-1-0-4	Raghu Reddy
In	CS	CS6.302	Software Systems Development **(Optional)**	3-1-0-4	Raghu Reddy
Pr	CS	CS9.501	User Research Methods	3-1-0-2	Priyanka Srivastava
Pr	PD	PD1.301	Design Thinking - Research to Define	3-1-0-2	Raman Saxena
Pr	PD	PD1.401	Design Thinking - Idea to Evaluate	3-1-0-2	Raman Saxena
Pr	PD	PD2.401	Product Management 101	3-1-0-2	Ramesh Loganathan
Pr	PD	PD2.321	Business Fundamentals-1	3-1-0-2	Priyatej K
Pr	PD	PD2.421	Business Fundamentals-2	3-1-0-2	Priyatej K
In	OT	OC9.600	Institute Seminar	0-0-0-1	Raghu Reddy (Coordinator)
In	CS	CS9.410	PG-Project	0-0-2-1	Raghu Reddy (Coordinator)
			Total 15-5-2-18/22		

Electives

		CNO	**CName**	**Credits**	**Faculty Name(s)**
Electives for CND Students					
		SC1.315	Nonlinear Dynamics	3-1-0-4	Abhishek Deshpande
		SC3.410	NGS Data Analysis	3-1-0-4	Nita Parekh
		SC1.420	Introduction to Particle Physics	3-1-0-4	Subhadip Mitra
		SC4.411	Machine Learning for Natural Sciences	3-1-0-4	Nita Parekh + Prabhakar B
		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
		SC1.415	Physics of The Early Universe **(40)**	3-1-0-4	Diganta Das
Electives for CLD Students					
		CL5.404	Indian Grammatical Tradition **(H2)**	3-0-0-2	Dipti Misra Sharma
		CS9.435	Computational Social Science	3-1-0-4	Ponnurangam K
		HS1.207	Introduction to Sanskrit	3-1-0-4	Peter Scharf
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 & Communication Stream				
		EC2.405	Applied Electromagnetics	3-1-0-4	K R Sarma
		CS7.505	Computer Vision	3-1-0-4	Anoop Namboodiri
		CS7.403	Statistical Methods in AI	3-1-0-4	Vineet Gandhi
		EC5.402	Time Frequency Analysis	3-1-0-4	Jayanthi Sivaswamy + Chiranjeevi Yerra
		EC5.401	Topics in Signal Processing	3-1-0-4	Santosh Nannuru
		EC5.501	Topics in Coding Theory	3-1-0-4	Prasad Krishnan
	VLSI and Embedded Systems Stream				
		EC2.408	Digital VLSI Design	3-1-0-4	Zia Abbas
		EC2.405	Applied Electromagnetics	3-1-0-4	K R Sarma
		EC2.502	Flexible Electronics	3-1-0-4	Aftab Hussain
		EC2.409	Principles of Semiconductor Devices	3-1-0-4	Anshu Sarje
	Robotics Stream				

		EC4.403	Robotics: Planning and Navigation	3-1-0-4	Madhava Krishna K
		EC4.402	Intro to UAV Design	3-1-0-4	Harikumar Kandath
		CS7.505	Computer Vision	3-1-0-4	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
		EC4.404	Mechatronics System Design	3-1-0-4	Nagamanikandan + Harikumar K
Electives for PG CASE Students					
		CE8.401	Disaster Management	3-1-0-4	Sunitha P
		CE1.603	Advanced Structural Analysis	3-1-0-4	Pravin Kumar Venkat Rao
		CE5.501	Design of Hydraulic Structures	3-1-0-4	Shaik Rehana
		CE1.602	Stability of Structures	3-1-0-4	Sunitha P
		CE1.601	Earthquake Engineering	3-1-0-4	Pradeep Kumar R
		CE0.601	Advanced Mechanics of Materials and Design	3-1-0-4	Venkateshwarlu M
		CS9.437	Green Buildings	3-1-0-4	Vishal Garg
		CS9.436	Optical Remote Sensing	3-1-0-4	RC Prasad
Bouquet Courses - Registration Limit: 200					
	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	Srinathan K
	Systems Courses				
		CS4.401	Data Systems	3-1-0-4	Krishna Reddy
		CS6.401	Software Engineering	3-1-0-4	Raghu Reddy
		CS3.401	Distributed Systems **(Max:150) Prerequisite: Operating Systems. Networks desirable**	3-1-0-4	Lini Thomas
		CS1.403	Compilers	3-1-0-4	Vignesh Sivaraman
	AI Courses				
		CS7.403	Statistical Methods in AI	3-1-0-4	Vineet Gandhi
		CS7.505	Computer Vision	3-1-0-4	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
		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	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
		CS9.430	Cognitive Neuroscience	3-1-0-4	Kavita Vemuri
		CS9.431	ICTs for Development **(60)-Open Elective**	3-1-0-4	Nimmi Rangaswamy
		CS9.432	Cognitive Science and AI	3-1-0-4	Bapi Raju S
		CS4.403	Distributed Data Systems **(Max:30)**	3-1-1-4	Kamal Karlapalem
		CS1.501	Advanced Optimization: Theory and Applications	3-1-0-4	Pawan Kumar
		CS9.422	Behavioral Research: Statistical Methods	3-0-1-4	Vishnu Sreekumar + Vinoo Alluri
		CS9.434	Music, Mind, and Technology **(Open/HS)**	3-1-0-4	Vinoo Alluri
		CE8.401	Disaster Management **(40)**	3-1-0-4	Sunitha P

		CS9.433	Hydro Informatics **(40)**	3-1-0-4	Shaik Rehana
		CS7.602	Topics in Deep Learning	3-1-0-4	Charu Sharma + Makarand Tapaswi
		CS1.409	Quantum Algorithms	3-1-0-4	Shantnav Chakravarthy
		CS6.502	Topics in Software Foundations	3-1-0-4	Venkatesh Choppella
		CS9.437	Green Buildings (Open Elective)	3-1-0-4	Vishal Garg
		CS4.409	Data Foundation Systems	3-1-0-4	Vikram Pudi
		CS9.435	Computational Social Science	3-1-0-4	Ponnurangam K
		CS9.436	Optical Remote Sensing	3-1-0-4	RC Prasad
		CS4.410	Spatial Data Sciences	3-1-0-4	KS Rajan

Math Electives (Random selection) Maximum no. of students for the following courses is: 50 each

		MA4.301	Differential Equations	3-1-0-4	Lakshmi Burra
		MA4.405	Multivariate Analysis	3-1-0-4	Venkateshwarlu M
		MA4.303	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

		SC2.316	Molecular Modeling and Simulations **(50)**	3-1-0-4	Deva Priyakumar
		SC1.315	Nonlinear Dynamics**(40)**	3-1-0-4	Abhishek Deshpande
		SC1.420	Introduction to Particle Physics **(40)**	3-1-0-4	Subhadip Mitra
		SC4.411	Machine Learning for Natural Sciences**(10)**	3-1-0-4	Nita Parekh + Prabhakar B
		SC1.415	Physics of The Early Universe **(40)**	3-1-0-4	Diganta Das
		SC2.301	Physics of Soft Condensed Matter **(40)**	3-1-0-4	Marimuthu Krishnan

Humanities Electives for UG3 and UG4 (Random selection) Max. no of students for each course is 40

		CS9.431	ICTs for Development **(60)-Open Elective**	3-1-0-4	Nimmi Rangaswamy
		HS3.302	The State in Colonial India	3-1-0-4	Aniket Alam
		HS1.202	Readings in Indian Literatures	3-1-0-4	Sushmita Banerjee
		HS1.206	Comprehension of Indian Music	3-1-0-4	TK Saroja
		HS0.204	Introduction to Philosophy of Technology	3-1-0-4	Ashwin Jayanthi
		HS1.203	Literature, History, and Belonging in Hyderabad	3-1-0-4	Nazia Akhtar
		HS7.301	Science, Technology and Society **(Max: 20)**	3-1-0-4	Radhika Krishnan
		HS0.205	Minds, Machines and Intelligence	3-1-0-4	Don Decruz
		CS9.434	Music, Mind, and Technology - **Open Elective**	3-1-0-4	Vinoo Alluri
		HS1.207	Introduction to Sanskrit	3-1-0-4	Peter Scharf

Sd/-
Dean (Academics)

Date: 08.11.2021