Course offerings in 2019-20 Semester II (Spring)

UG Programmes

CD	AD	CNO	CName	Credits	Faculty Name(s)
B.Tech I year II Semester - CSE&CSD					
In	CS	CS6.201	Introduction to Software Systems (H)	1-0-3-2	Raghu Reddy
In	CS	CS1.201	Data Structures and Algorithms	3-1-3-5	Anoop + Ravikiran S
In	CS	CS2.201	Computer Systems Organization	3-1-0-4	Avinash Sharma
In	EC		Introduction to IoT	1-0-3-3	Deepak Gangadharan
In	MA	MA2.101	Linear Algebra	3-1-0-4	Prasad Krishnan & Indranil
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					
In	EC	EC2.103	Analog Electronic Circuits	3-1-3-5	Zia Abbas + Spandan Roy (Lab)
In	CS	CS1.201	Data Structures and Algorithms	3-1-3-5	Anoop + Ravikiran S
In	MA	MA2.101	Linear Algebra	3-1-0-4	Prasad Krishnan & Indranil
In	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					
In	CS	CS6.201	Introduction to Software Systems (H)	1-0-3-2	Raghu Reddy
In	CS	CS1.201	Data Structures and Algorithms	3-1-3-5	Anoop + Ravikiran S
In	MA	MA2.101	Linear Algebra	3-1-0-4	Prasad Krishnan & Indranil
In	CNS	SC4.111	Computing in Sciences II (Full Sem)	3-1-0-2	Prabhakar B
PR	CNS	SC1.102	Classical Mechanics (H1)	3-1-0-2	Subhadip Mitra
PR	CNS	SC1.101	Electrodynamics (H2)	3-1-0-2	Subhadip Mitra
In	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					
In	MA	MA2.101	Linear Algebra	3-1-0-4	Prasad Krishnan & Indranil
In	CS	CS6.201	Introduction to Software Systems (H)	1-0-3-2	Raghu Reddy
In	CS	CS1.201	Data Structures and Algorithms	3-1-3-5	Anoop + Ravikiran S
In	CS	CS2.201	Computer Systems Organization	3-1-0-4	Avinash Sharma
In	CL	CL1.102	Introduction to Linguistics II	3-1-0-4	Aditi Mukherjee
In	CL	CL3.101	Computational Linguistics 1	3-1-0-4	Radhika M
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					
In	MA	MA3.101	Linear Algebra	3-1-0-4	Prasad Krishnan & Indranil
In	CS	CS6.201	Introduction to Software Systems (H)	1-0-3-2	Raghu Reddy
In	CS	CS1.201	Data Structures and Algorithms	3-1-3-5	Anoop + Ravikiran S
In	HS	CL1.102	Making of the Contemporary India	3-1-0-4	Aniket Alam + Radhika Krishnan
In	HS	CL3.101	Thinking and Knowing in the Human Sciences-I	3-1-0-4	Sushmita Banerji + **TBD**
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		

Lateral Entry I year II Semester - LCD

In	EG	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	Praveen P
In	HS		Intro to Human Sciences	3-1-0-4	Nimmi Rangaswamy (Coordinator)
Pr	CS		Science II	3-1-0-4	**TBD**
Pr	CS		Theory/Foundation Breadth Elective-1	3-1-0-2	**Choose the courses from the list given below**
In	EC		Theory/Foundation Breadth Elective-2	3-1-0-2	
In	CS		Theory/Foundation Breadth Elective-3	3-1-0-2	
In	HS	OC3.102	Value Education II	0-2-0-2	Dipti M Sharma (Coordinator)
In	CS	OC1.102	Sports-2	0-2-0-1	Physical Education Centre
			Total 21-11-0-25		

B.Tech II year II Semester – CSE&CSD

In	EG	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	Praveen P
In	HS		Intro to Human Sciences	3-1-0-4	Nimmi Rangaswamy (Coordinator)
Pr	CS		Science II	3-1-0-4	**TBD**
Pr	CS		Theory/Foundation Breadth Elective-1	3-1-0-2	**Choose the courses from the list given below**
In	EC		Theory/Foundation Breadth Elective-2	3-1-0-2	
In	CS		Theory/Foundation Breadth Elective-3	3-1-0-2	
In	HS	OC3.102	Value Education II	0-2-0-2	Dipti M Sharma (Coordinator)
In	CS	OC1.104	Sports-4	0-2-0-1	Physical Education Centre
			Total 21-11-0-25		

Theory/Foundations Courses

			Program Verification (H2)	3-1-0-2	Venkatesh Choppella
			Introduction to Information Security (H1)	3-1-0-2	Ashok Kumar Das + Kannan Srinathan
			Introduction to Quantum Information and Computation (H2)	1-1-0-2	Indranil Chakrabarthy

Systems/Applications Courses

			Software Programming for Performance (H1)	3-1-0-2	Rahul Jain, CIE
			Digital Signal Analysis (H1)	3-1-0-2	Anil Kumar V
			Data Visualisation (H2)	2-0-1-2	Kamal Karlapalem
			Introduction to Brain and Cognition (H2)	3-1-0-2	Bapi Raju S + Kavita Vemuri

B.Tech II year II Semester ECE & ECD:

Pr	EC		Communication Theory	3-1-0-4	Sachin Chaudhari
Pr	EC	EC2.201	Electronics Workshop II	3-1-3-4	Zia Abbas + Madhava Krishna
Pr	EC	EC6.202	Intro to Process Architecture (H1)	3-1-0-2	Suresh Purini
In	HS		Intro to Human Sciences	3-1-0-4	Nimmi Rangaswamy (Coordinator)
Pr	EC		Stream Foundation-1	3-1-0-4	**Choose course(s) from the list given below.**
In	HS	OC3.102	Value Education II	0-2-0-2	Dipti M Sharma (Coordinator)
In	CS	OC1.104	Sports-4	0-2-0-1	Physical Education Centre
			Total 15-9-3-27		

Lateral Entry I year II Semester – LED

Pr	EC		Communication Theory	3-1-0-4	Sachin Chaudhari
Pr	EC	EC2.201	Electronics Workshop II	3-1-3-4	Zia Abbas + Madhava Krishna
Pr	EC	EC6.202	Intro to Processor Architecture	3-1-0-2	Suresh Purini
In	HS		Intro to Human Sciences	3-1-0-4	Nimmi Rangaswamy (Coordinator)

Pr	EC		Stream Foundation-1	3-1-0-4	**Choose course(s) from the list given below.**
In	HS	OC3.102	Value Education II	0-2-0-2	Dipti M Sharma (Coordinator)
In	CS	OC1.102	Sports-2	0-2-0-1	Physical Education Centre
			Total 15-9-3-21		

Electives for UG2 ECE/ECD/LED Students

			Intro to Bio Electronics (H2)	3-1-0-2	Syed + Tapan/Prabhakar
			Communicaton and Controls in IoT (H1)	3-1-0-2	Sachin Chaudhari + Aftab
			Introduction to Coding Theory	3-1-0-4	Prasad Krishnan

B.Tech II year II Semester CND

In	CS	CS2.201	Computer Systems Organization	3-1-0-4	Avinash Sharma
Pr	CS	CS7.301	Machine, Data and Learning	3-1-0-4	Praveen P
In	EG	CS6.301	Design and Analysis of Software Systems	3-1-0-4	Ramesh Loganathan
Pr	CNS	SC1.204	Thermodynamics (H1)	3-1-0-2	Harjinder Singh
Pr	CNS	SC1.205	Statistical Mechanics (H2)	3-1-0-2	Harjinder Singh
Pr	CNS	SC2.203	Biomolecular Structures (H2)	3-1-0-2	Deva Priyakumar
Pr	CNS	SC2.202	Organic Chemistry (H1)	3-1-0-2	Prabhakar B
Pr	CNS	SC4.111	Science Lab II	0-0-3-2	Prabhakar B+Tapan Kumar Sau
In	HS	OC3.102	Value Education II	0-2-0-2	Dipti M Sharma (Coordinator)
In	CS	OC1.104	Sports-4	0-2-0-1	Physical Education Centre
			Total 15-9-3-25		

B.Tech II year II Semester CLD

Pr	CL	CL1.204	Language Typology and Universals	3-1-0-4	Radhika M + Manish Shrivastava
PR	CL		Introduction to NLP	3-1-0-4	Manish Shrivastava
Pr	CS		Digital Signal Applications (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	Praveen P
In	HS		Introduction to Human Sciences	3-1-0-4	Nimmi Rangaswamy (Coordinator)
In	HS	OC3.102	Value Education II	0-2-0-2	Dipti M Sharma (Coordinator)
In	CS	OC1.104	Sports-4	0-2-0-1	Physical Education Centre
			Total 18-9-0-25		

Lateral Entry II year II Semester – LCD

		CSE492	Honours Project II	0-0-8-4	
Pr	CS		Bouquet Core	3-1-0-4	
Pr	CS		Bouquet Core	3-1-0-4	
OT	[+]		Elective (CS / Free)	3-1-0-4	
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
			Total 15-5-8-24		

Lateral Entry II year II Semester – LED

OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
Pr	EC	ECE337	Communication Networks*	3-1-0-4	Ubaidulla
Pr	EC	ISC202	Science II	3-1-0-4	Marimuthu Krishnan
OT	EC		ECE Elective	3-1-0-4	
In	EC	ECE492	ECE-Honours Project II	0-0-8-4	
OT	EC		ECE Stream Elective	3-1-0-4	
			Total 15-5-8-24		

B.Tech III year II Semester – CSE:

In	CS	CSE496/ CSE492	BTP I / CSE-Honours Project 2	0-0-8-4	
Pr	CS		Bouquet Core	3-1-0-4	

OT	[+]	ISC202	Science II	3-1-0-4	Marimuthu Krishnan
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
OT	[+]		Elective (CS / Free)	3-1-0-4	
			Total 12-4-0-20/24		

B.Tech III year II Semester – CSD:

Pr	CS		Bouquet Core	3-1-0-4	
OT	[+]	ISC202	Science II	3-1-0-4	Marimuthu Krishnan
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
OT	[+]		Elective (CS / Free)	3-1-0-4	
			Research Stream Course	3-1-0-4	
		CSE492	Honours Project II	0-0-8-4	
			Total 15-5-8-24		

B.Tech III year II Semester – ECE:

OT	[+]		Science/Maths/Humanities	3-1-0-4	
Pr	EC	ECE337	Communication Networks*	3-1-0-4	Ubaidulla
Pr	EC	ISC202	Science II	3-1-0-4	Marimuthu Krishnan
OT	CS		ECE Elective	3-1-0-4	
In	EC	ECE496	BTP-I/ECE-Honours Project I	0-0-8-4	
			Total 15-5-0-20		

B.Tech III year II Semester – ECD:

OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
Pr	EC	ECE337	Communication Networks*	3-1-0-4	Ubaidulla
Pr	EC	ISC202	Science II	3-1-0-4	Marimuthu Krishnan
OT	EC		ECE Elective	3-1-0-4	
In	EC	ECE492	ECE-Honours Project II	0-0-8-4	
OT	EC		ECE Stream Elective	3-1-0-4	
			Total 15-5-8-24		

B.Tech III year II Semester – CND

Pr	CS	CSE481	Optimization Methods	3-1-0-4	CV Jawahar
Pr	CS		Bouquet Core	3-1-0-4	
Pr	CNS	SC2.202	Organic Chemistry (**Attend with UG2 for H1**)	3-1-0-4	Prabhakar B
Pr	CNS	CSE492	CSE-Honours Project II	0-0-8-4	
Pr	CNS		CNS Elective	3-1-0-4	
Pr	CS		CS Elective	3-1-0-4	
			CCNSB Seminar	0 Cr.	Vinod Palakkad (Coordinator)
			Total 15-5-8-24		

B.Tech III year II Semester – CLD:

			Humanities Elective	3-0-0-4	
Pr	CS		Bouquet Core	3-1-0-4	
Pr			CL-Elective	3-1-0-4	
Pr	CS	CSE573	NLP Applications	3-1-0-4	Manish Shrivastava
Pr	CS		CS Elective	3-1-0-4	
In	CS	CSE492	CSE-Honours Project II	0-0-8-4	
			Total 18-5-0-24		

Lateral Entry III year II semester - LCD:

Pr	CS		Bouquet Core (*)	3-1-0-4	
Pr	CS		Bouquet Core (*)	3-1-0-4	
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
			Elective (CS / Free)	3-1-0-4	
Pr	CS		Research Stream/CS Course	3-1-0-4	
		CSE494	CSE-Honours Project IV	0-0-8-4	
			Total 15-5-8-24		

			B.Tech IV year II semester – CSE:		
Pr	CS		Bouquet Core (*)	3-1-0-4	
			Elective (CS / Free)	3-1-0-4	
			Elective (CS / Free)	3-1-0-4	
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
			Total 15-5-0-20		
			B.Tech IV year II semester - CSD:		
Pr	CS		Bouquet Core (*)	3-1-0-4	
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
			Elective (CS / Free)	3-1-0-4	
Pr	CS		Research Stream/CS Course	3-1-0-4	
		CSE494	CSE-Honours Project IV	0-0-8-4	
			Total 15-5-8-24		
			B.Tech IV year II Semester – ECE:		
O	[+]		Science/Maths/Humanities	3-1-0-4	
OT	[+]		Science/Maths/Humanities	3-1-0-4	
Pr	EC		EC Elective	3-1-0-4	
Pr	EC		EC Elective	3-1-0-4	
			Free Elective	3-1-0-4	
			Total 15-5-0-20		
			B.Tech IV year II Semester – ECD: (Lateral Entry-III year II Semester-LED)		
OT	[+]		Science/Maths/Humanities	3-1-0-4	
OT	[+]		Science/Maths/Humanities	3-1-0-4	
Pr	EC		EC Elective	3-1-0-4	
Pr	EC		EC Elective	3-1-0-4	
			Free Elective	3-1-0-4	
		ECE494	ECE-Honours Project IV	0-0-8-4	
			Total 15-5-8-24		
			B.Tech IV year II Semester – CND		
Pr	CS		Bouquet Core	3-1-0-4	
Pr	CNS	SCI473	CNS-Honours Project IV	0-0-8-4	
Pr	CNS		CNS Elective	3-1-0-4	
OT	[+]		CNS Elective	3-1-0-4	
	EG		Engg Elective	3-1-0-4	
			Free Elective	3-1-0-4	
		SCI400	CCNSB Seminar	0 Cr	Vinod Palakkad (Coordinator)
			Total 15-5-8-24		
			B.Tech IV year II Semester - CLD		
OT	[+]		Humanities Elective	3-1-0-4	
Pr	CS		Bouquet Core	3-1-0-4	
Pr	??		CL-Elective	3-1-0-4	
Pr	CS		CS Elective	3-1-0-4	
In	CS	CSE391	Semester Project (4Cr)	0-0-8-4	
			Total 12-4-8-20		
			B.Tech IV year II Semester – BSD:		
Pr	CE		CE Elective	3-1-0-4	
Pr	CE		Stream Elective	3-1-0-4	
Pr	CE		CE-Honours Project-4	3-1-0-4	
In	MA		Mathematics Elective	3-1-0-4	
In	HS		Humanities Elective	3-1-0-4	
			Total 15-5-8-24		

CD	AD	CNO	CName	Credits	Faculty Name(s)
PG Programmes					
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	
			Area/Open elec/PG-Project/Indep.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 project **(or)**	0-0-16-8	
			Area /CS/Open elective	3-1-0-4	
			Area /CS/Open elective	3-1-0-4	
			Total 12-4-0-16 / 6-2-16-16		
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	Srinathan Kannan
			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					
		CSE604	Computing Tools	3-1-3-4	Vikrampudi
			SE Elective	3-1-0-4	
			SE Elective	3-1-0-4	
			SE Elective / CASE Project	3-1-0-4	
			Total 12-4-3-16		
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 I Year II Semester - Bioinformatics					
		CSE604	Computing Tools	3-1-0-4	Vikrampudi
		SCI433 /SCI633	Modeling and Simulations	3-1-0-4	Prabhakar B + Deva Priyakumar
		SCI765	Introduction to Systems Biology	3-1-0-4	Vinod PK
			Domain/IT elective	3-1-0-4	
			Total 12-4-0-16		
M.Tech II Year II Semester – Bioinformatics					
		SCI400	CCNSB Seminar	0 Cr	Vinod PK
		SCI765	Introduction to Systems Biology	3-1-0-4	Vinod PK
		SCI860	Computational Biology Project / Elective	0-0-8-4	CCNSB Faculty
			Domain/IT elective	3-1-0-4	
			Total 6-2-8-12		

Electives

		CNO	CName	Credits	Faculty Name(s)
Electives for BSD Students					
		CES442	Disaster Management	3-1-0-4	Sunitha P
			Elasticity: Theory and Finite Elements	3-1-0-4	Venkateswarlu M
		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 R
		CEG461	Remote Sensing	3-1-0-4	RC Prasad
		CSE471	Statistical Methods in AI	3-1-0-4	Ravi Kiran S + Vineet
Electives for CND Students					
		SCI761	Topics in Nanosciences	3-1-0-4	Tapan Kumar Sau
		SCI765	Introduction to Systems Biology	3-1-0-4	Vinod PK
		SCI653	NGS Data Analysis	3-1-0-4	Nita Parekh
Electives for CLD Students					
		CLG452	Linguistic Data 2: Collection & Modeling	3-1-0-4	Radhika M + Aditi Mukherjee + Dipti M Sharma
			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	Santosh Nannuru
		ECE446	Speech Systems	3-1-0-4	**TBD**
	Level 2				
		CSE578	Computer Vision	3-1-0-4	Avinash Sharma
		CSE471	Statistical Methods in AI	3-1-0-4	Ravi Kiran S + Vineet
	Communications Stream				
	Level 1				
		ECE431	Signal Detection and Estimation Theory	3-1-0-4	Santosh Nannuru
			Introduction to Coding Theory	3-1-0-4	Prasad Krishnan
	Level 2				
			Topics in Coding Theory	3-1-0-4	Lalitha V
		ECE538	Fiber Optic Communication Systems	3-1-0-4	Kavita Vemuri
	VLSI and Embedded Systems Stream				
	Level 1				
		ECE463	Digital VLSI Design	3-1-0-4	Anshu Sarje
	Level 2				
		ECE566	Photonics	3-1-0-4	Syed Azeemuddin
		CSE422	Advanced Computer Architecture	3-1-0-4	Govindarajulu R
		ECE562	Flexible Electronics	3-1-0-4	Aftab Hussain
	Robotics Stream				
	Level 1				
		ECE452	Intro to Robotics: Mechanics & Control	3-1-0-4	Abhishek Sarkar + Spandana Roy
	Level 2				
		CSE578	Computer Vision	3-1-0-4	Avinash Sharma
		CSE471	Statistical Methods in AI	3-1-0-4	Ravi Kiran S + Vineet
		ECE551	Advances in Robotics & Control	3-1-0-4	Madhava Krishna + Abhishek Sarkar

Electives for PG CASE Students

		CES442	Disaster Management	3-1-0-4	Sunitha P
			Elasticity Theory and Finite Elements	3-1-0-4	Venkateswarlu M
		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 R
		CEG461	Remote Sensing	3-1-0-4	RC Prasad
		CES771	CASE Project	4 credits	

Electives for PG Bioinformatics Students

		SCI653	NGS Data Analysis	3-1-0-4	Nita Parekh
		SCI761	Topics in Nanosciences	3-1-0-4	Tapan Kumar Sau

Bouquet Courses

Note for UG3/UG4 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.

Note for M.Tech CSE Students: Every student must register for 20 bouquet core credits. Of the 20 bouquet core credits, at least 2 must be from the foundations and at least 2 must be from the systems stream. Further, at least two of these bouquet core courses must be done in the second semester and at least one in the third semester.

Foundation Courses - Registration Limit: 175

		CSE471	Statistical Methods in AI	3-1-0-4	Ravi Kiran S + Vineet
		CSE418	Principles of Information Security	3-1-0-4	Srinathan Kannan
		CSE481	Optimization Methods	3-1-0-4	CV Jawahar

Systems Courses - Registration Limit: 175

		CSE441	Database Systems	3-1-0-4	Krishna Reddy P
		CSE461	Software Engineering	3-1-0-4	Vasudeva Varma + Prakash Yalla
		CSE431	Distributed Systems **Prerequisite: Operating Systems. Networks desirable**	3-1-0-4	Lini Thomas

CSE/Open Electives

		CSE578	Computer Vision	3-1-0-4	Avinash Sharma
		ECE446	Speech Systems	3-1-0-4	**TBD**
		CSE498	Introduction to Game Theory	3-1-0-4	Sujit Gujar
		CSE581	Information Security Audit and Assurance	3-1-0-4	Shatrunjay Rawat
		CSE538	System and Network Security	3-1-0-4	Ashok Kumar Das
		CSE573	NLP Applications	3-1-0-4	Manish Shrivastava
		CSE563	Internals of Application Servers	3-1-0-4	Ramesh Loganathan
		CSE586	Cognitive Neuroscience	3-1-0-4	Kavita Vemuri
		CSE504	Intro to Parallel Scientific Computing	3-1-0-4	Pawan Kumar
		CSE595	ICTs for Development (**Free Elective**)	3-1-0-4	Nimmi Rangaswamy
			Probabilistic Graphical Models (**Free Elective**)	3-1-0-4	Girish Varma
		CSE588	Music, Mind, and Technology	3-1-0-4	Vinoo Alluri
		CSE567	Usability Engineering	3-1-0-4	Priyanka Srivastava
		CSE569	Software Foundations	3-1-0-4	Venkatesh Choppella
			Data Analytics II	3-1-0-4	DSAC
		CSE486	Introduction to Neural and Cognitive Modeling	3-1-0-4	Bapi Raju S
			Social Computing	3-1-0-4	Vasudeva Varma

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
Math Electives (Random selection) Maximum no. of students for the following courses is: 50 each)					
		IMA303	Differential Equations	3-1-0-4	Lakshmi Burra
			Probabilistic Graphical Models	3-1-0-4	Girish Varma
		IMA409	Multivariate Analysis	3-1-0-4	Venkateswarlu M
Science Electives (Random selection) Max. no of students for each course is given in the brackets					
		SCI341	General & Structural Chemistry **(35)**	3-1-0-4	Tapan Kumar Sau
		SCI433/ SCI633	Modeling and Simulations **(20)**	3-1-0-4	Prabhakar B + Deva Priyakumar
		SCI761	Topics in Nanosciences **(25)**	3-1-0-4	Tapan Kumar Sau
		SCI765	Introduction to Systems Biology	3-1-0-4	Vinod PK
		SCI653	NGS Data Analysis	3-1-0-4	Nita Parekh
Humanities Electives for UG3 and UG4 (Random selection) Max. no of students for each course is 40					
		HSS482	Digital Humanities Project **Note:Register with faculty consent only**	0-0-8-4	CEH Faculty
		HSS365	Science Technology and Society	3-1-0-4	Harjinder Singh
		HSS446	The State in Colonial India	3-1-0-4	Aniket Alam
		HSS337	Comprehension of Indian Music	3-1-0-4	T K Saroja
		CSE595	ICTs for Development	3-1-0-4	Nimmi Rangaswamy
		HSS466	Environment & Politics in India	3-1-0-4	Radhika Krishnan
		HSS447	Gender and Society	3-1-0-4	Sushmita Banerji
			An Introduction to William Blake	3-1-0-4	Aruna Chaluvadi
			Alternate Religious Traditions in Indian History	3-1-0-4	Nilam Kakati (HCU) + Aniket Alam
		TS17002	Language, Mind and Society	3-1-0-4	Aditi Mukherjee

Sd/-

Date: 22.11.2019   **Dean (Academics)**