

Course Offering (UG 1st Year Monsoon 2021) + (Rest Winter 2022 Semester)								
S.No.	Course Code	Course Name	Instructor	Acronym	Credits	On Offer for	Also Open for	Anti-Requisite
<b>Ist Year Courses</b>								
1	MTH100	Maths I	Samaresh Chatterji (G) + Acushla Saraswat (V)	MI	4	UG 1st Year		
2	CSE101	Introduction to Programming	Raghava Mutharaju + Pankaj Jalote	IP	4	UG 1st Year		
3	DES102	Introduction to HCI	Rajiv Ratn Shah + Indrani De Parker (V)	IHCI	4	UG 1st Year		
4	ECE111	Digital Circuits	G S Visweswaran (V) + S S Jamuar(V)	DC	4	UG 1st Year		
5	COM101	Communication Skills	Payel Mukherjee (V)	COM	4	UG 1st Year		
<b>IInd Year Courses</b>								
1	BIO213	Introduction to Quantitative Biology	Jaspreet Kaur Dhanjal	IQB	4	CSB-Core, CSE, ECE, CSAM, CSD, CSSS Electives		
2	BIO221	Practical Bioinformatics	Tavpritesh Sethi	PB	4	CSB, CSE-Core Elective, ECE, CSAM, CSSS Electives		
3	CSE202	Fundamentals of Database Systems	Mukesh Mohania	DBMS	4	CSE-core, CSAI, ECE, CSAM Elective		
4	CSE202	Fundamentals of Database Systems	C. Anantaram (V)	DBMS	4	CSB,CSSS,CSD-Core		
5	CSE222	Analysis and Design of Algorithms-A (Sec A)	Syamantak Das	ADA	4	CSE, CSSS - Core, ECE Elective		
6	CSE222	Analysis and Design of Algorithms-A (Sec B)	Diptapriyo Majumdar	ADA	4	CSAM,CSAI, CSD, CSB-Core		
7	CSE322	Theory of Computation	Debajyoti Bera	TOC	4	CSAM-Core, CSE-Core elective,CSD,CSAI, CSSS-Elective		
8	CSE342	Statistical Machine Learning	A V Subramanyam	SML	4	CSAI Core, ECE, CSE, CSAM, CSD, CSSS Elective		
9	DES205/519	Design of Interactive Systems	Grace Eden	DIS	4	CSD-Core, ECE, CSE, CSAM, CSSS Elective		
10	DES206	Prototyping Interactive Systems	Richa Gupta	PIS	4	CSD-Core, CSE Core-Elective, ECE, CSAM, CSSS - Elective		
11	ECE214	Integrated Electronics	Mohammad S Hashmi	IE	4	ECE-Core, CSE, CSAM, CSSS - Elective		
12	ECE230	Fields and Waves	Sayak Bhattacharya	F&W	4	ECE-Core, CSE, CSAM, CSSS - Elective		
13	ECE240	Principles of Communication Systems	Ranjitha Prasad	PCS	4	ECE-Core, CSE,CSAM, CSSS -Elective		
14	ECO201	Macroeconomics	Kiriti Kanjilal	MA	4	ECE, CSE, CSAM, CSD, CSSS Elective		
15	ECO221	Econometrics 1	Gaurav Arora	ECO	4	CSSS Core, ECE, CSE, CSAM, CSD, CSB- Elective		
16	MTH204	Maths IV - ODE/PDE	Ashish Kumar Pandey	MIV	4	ECE,CSAM-Core, CSE, CSAI-Core elective, CSD, CSSS-Elective		
17	MTH212	Abstract Algebra I	Anuradha Sharma	AAI	4	CSAM-Core, ECE, CSE, CSSS Elective		
18	MTH310	Graph Theory	Samaresh Chatterji(G)	GT	4	CSE,CSAI-Core elective, CSAM, ECE, CSSS, CSD-Elective		
19	MTH372	Statistical Inference	Monika Arora	SI	4	CSAI-core elective, ECE, CSE, CSAM, CSSS-Elective		
20	MTH377/MTH577	Convex Optimization	Rakesh Chaturvedi	COO	4	CSSS,CSAI, Core, ECE, CSE, CSAM-Elective		
21	SSH325/5xx	Ethics in AI (New)	Manohar Kumar	EI	4	CSAI, CSE, ECE, CSAM, CSD, CSB, CSSS Elective		
22	SOC207	Information Technology and Society	Amrit Srinivasan (V)	ITS	4	ECE, CSE, CSAM, CSD, CSB, CSSS - Elective		
23	SOC211	Science, Technology and Society	Shireen Mirza	STS	4	ECE, CSE, CSAM, CSD, CSB, CSSS - Elective		
<b>UG IIIrd, IVth Year and PG Courses</b>								
1	BIO522	Algorithms in Computational Biology	Arul Murugan	ACB	4	UG/PG		
2	BIO5xx	Computational Methods in Oncology Research (New)	Debarika Sen Gupta	CMOR	4	UG/PG		
3	BIO531	Introduction to Mathematical Biology	Sriram K	IMB	4	UG/PG		
4	BIO541	Data science in Genomics	Vibhor Kumar	DSG	4	UG/PG		
5	BIO543	Big Data Mining in Healthcare	G P S Raghava	BDMH	4	UG/PG		
6	BIO545	Biostatistics	Gaurav Ahuja	BStats	4	UG/PG		
7	BIO563	Computer Aided Drug Design	Arjun Ray	CADD	4	UG/PG		
8	CSE322	Theory of Computation	Debajyoti Bera	TOC	4	UG		
9	CSE342/CSE542	Statistical Machine Learning	A V Subramanyam	SML	4	UG/PG		
10	CSE343/ECE363/ ECE563	Machine Learning	Saket Anand	ML	4	UG/PG		
11	CSE344/CSE544/ ECE344/ECE544	Computer Vision	Koteswar Rao Jerripothula	CV	4	UG/PG		
12	CSE354/CSE554	Networks and System Security II	Sambuddho Chakravarty	NSSII	4	UG/PG		
13	CSE502	Foundations of Parallel Programming	Vivek Kumar	FPP	4	UG/PG		
14	CSE504	Decision Procedures	Rahul Purandare	DP	4	UG/PG		
15	CSE508	Information Retrieval	Rajiv Ratn Shah	IR	4	UG/PG		
16	CSE516/ECE559	Theories of Deep Learning	Vinayak Abrol	TDL	4	UG/PG		
17	CSE518	Concurrent and Learned Data Structure (New)	Bapi Chatterjee	CLDS	4	UG/PG		
18	CSE524	Theory of Modern cryptography	Donghoon Chang	TMC	4	UG/PG		
19	CSE535	Mobile computing	Mukulika Maity	MC	4	UG/PG		
20	CSE538/ECE538	Wireless Network	Arani Bhattacharya	WN	4	UG/PG		
21	CSE557	Big Data analytics	Vikram Goyal	BDA	4	UG/PG		
22	CSE568	Social Network Analysis (New)	Tanmoy Chakraborty	SNA	4	UG/PG		CSE559
23	CSE560	GPU Computing	Ojaswa Sharma	GPU	4	UG/PG		
24	CSE561	Probabilistic Graphical Models	Anubha Gupta	PGM	4	UG/PG		
25	CSE567	Programmable Networking (new)	Rinku Shah	PN	4	UG/PG		

S.No.	Course Code	Course Name	Instructor	Acronym	Credits	On Offer for	Also Open for	Anti-Requisite
26	CSE618	Meta Learning (new)	Gautam Shroff (G)	MTL	4	UG/PG		
27	CSE632	Semantic Web	V. Raghava Murtharaju	SW	4	UG/PG		
28	CSE640	Collaborative Filtering	Angshul Majumadar	CF	4	UG/PG		
29	CSE641	Deep Learning	Md. Shad Akhtar	DL	4	UG/PG		
30	CSE651	Topics in Adaptive Cybersecurity	Arun Balaji Buduru	TACS	4	UG/PG		
31	CSE655	Network Science	Ganesh Bagler	NS	4	UG/PG		
32	DES205/519	Design of Interactive Systems	Grace Eden	DIS	4	UG/PG		
33	DES502	Introduction to 2D Animation	Anoop Ratn (V)	I2D	4	UG/PG		
34	DES506	Advanced Topics in Human-Centered Computing	Pushendra Singh	ATHCC	4	UG/PG		
35	CSE661/DES507	Affective Computing	Jainendra Shukla	AFC	4	UG/PG		
36	DES512	Game Design and Development	Aman Samuel (V)	GDD	4	UG/PG		
37	DES518	Introduction to Motion and Graphics	Anoop Ratn (V)	IMG	4	UG/PG		
38	ECE5aom	Applied Optimization methods for machine learning (new)	Pravesh Biyani	AOMML	4	UG/PG		
39	ECE5et	Estimation Theory for dynamic systems (NEW)	Sanat K Biswas	ET	4	UG/PG		
40	ECE412/ECE612	Mixed Signal Design	G S Visweswaran(V)	MSD	4	UG/PG		
41	ECE432/ECE632	Radar Systems / Antenna	Shobha Sundaram	RS	4	UG/PG		
42	ECE513	VLSI Design Flow	Sneh Saurabh	VDF	4	UG/PG		
43	ECE537	Wireless Communication: Evolution from 3G to 5G	Vivek Bohara	WCE	4	UG/PG		
44	ECE543	Principles of Digital Communication Systems	Anand Srivastava	PDCS	4	UG/PG		
45	ECE573	Advanced Embedded Logic Design	Sumit Darak	AELD	4	UG/PG		
46	ECE577	Machine Learning Techniques for Real Time Control	Sayan Basu Roy	MLRC	4	UG/PG		
47	ECE611	Memory Design and Test	Anuj Grover	MDT	4	UG/PG		
48	ECO201	Macroeconomics	Kirti Kanjilal	MA	4	UG		
49	ENG599s	Research Methods	Sanat K Biswas	RM	2	PG		
50	ENT413	Entrepreneurial Finance	Pankaj Vajpayee (V)	EF	4	UG/PG		
51	ENT416/ENT516	Creativity, Innovation, and Inventive Problem Solving	Anuj Grover	CIIPS	4	UG/PG		
52	MTH300	Introduction to Mathematical logic	Sankha S Basu	IML	4	UG		
53	MTH310	Graph Theory	Samresh Chatterji(G)	GT	4	UG		
54	MTH311	Combinatorics and its applications	Samrith Ram	CIA	4	UG		
55	MTH372	Statistical Inference	Monika Arora	SI	4	UG		
56	MTH374/MTH574	Linear Optimization	Subhashree Mohapatra	LO	4	UG/PG		
57	MTH377/MTH577	Convex Optimization	Rakesh Chaturvedi	COO	4	UG/PG		
58	MTH510	Advanced Linear Algebra	Debika Banerjee	ALA	4	UG/PG		
59	MTH513	Abstract Algebra-II	Sneha Chaubey	AAII	4	UG/PG		
60	MTH542	Introduction to Functional Analysis	Satish Pandey	IFA	4	UG/PG		
61	MTH544	Calculus on R^n with Applications	Kaushik Kalyanaraman	CRN	4	UG/PG		
62	MTH599	Variational Calculus and their Applications in Control Theory and Nanomechanics	Sarthok Sircar	VCA	4	UG/PG		
63	PSY301	Cognitive Psychology	Dr Sonia Baloni and Dr Venkata R	CP	4	UG/PG		
64	PSY302	Social Psychology	Venkata Ratnadeep Suri	SP	4	UG/PG		
65	PSY305	Attention and Perception	Sonia Baloni	AP	4	UG		
66	PSY306	Learning and Memory	Mrinmoy Chakrabarty	LM	4	UG		
67	SOC207	Information Technology and Society	Amrit Srinivasan (V)	ITS	4	UG		
68	SOC211	Science, Technology and Society	Shireen Mirza	STS	4	UG		
69	SOC312/SOC502	Advanced Sociological Theory	Gayatri Nair	AST	4	UG/PG		
70	SOC313/SOC503	Sociology of India: Themes and Perspectives	Smriti Singh	Sol	4	UG/PG		
71	SSH300/SSH500	Theories of Ethics	Nishad Patnaik	TOE	4	UG/PG		
72	SSH325/525	Ethics in AI (New)	Manohar Kumar	EI	4	UG/PG		

**Online courses for UG students**

S.No.	Course Code	Course Name	Instructor	Credits	Link
1	ECE999A	Microprocessors and Microcontrollers	Sumit Darak	2	<a href="https://onlinecourses.nptel.ac.in/noc22_ee12/preview">https://onlinecourses.nptel.ac.in/noc22_ee12/preview</a>
2	ECE999A2	Power Management Integrated Circuits	S S Jamuar(V)	2	<a href="https://onlinecourses.nptel.ac.in/noc22_ee41/preview">https://onlinecourses.nptel.ac.in/noc22_ee41/preview</a>
3	ECE999A3	Antennas	Shobha Sundaram	2	<a href="https://onlinecourses.nptel.ac.in/noc22_ee22/preview">https://onlinecourses.nptel.ac.in/noc22_ee22/preview</a>
4	ECE999A4	Hardware Security	Sujay Deb	2	<a href="https://onlinecourses.nptel.ac.in/noc22_cs48/preview">https://onlinecourses.nptel.ac.in/noc22_cs48/preview</a>
5	CSE999A	Computational Geometry	Debajyoti Bera	2	<a href="https://onlinecourses.nptel.ac.in/noc22_cs41/preview">https://onlinecourses.nptel.ac.in/noc22_cs41/preview</a>
6	CSE999A2	Introduction to Soft Computing	Debajyoti Bera	2	<a href="https://onlinecourses.nptel.ac.in/noc22_cs54/preview">https://onlinecourses.nptel.ac.in/noc22_cs54/preview</a>
7	CSE999A3	Ethical Hacking	Debajyoti Bera	2	<a href="https://onlinecourses.nptel.ac.in/noc22_cs13/preview">https://onlinecourses.nptel.ac.in/noc22_cs13/preview</a>
8	CSE999A4	Arithmetic Circuit Complexity	Debajyoti Bera	2	<a href="https://onlinecourses.nptel.ac.in/noc22_cs60/preview">https://onlinecourses.nptel.ac.in/noc22_cs60/preview</a>
9	CSE999A5	Information, Security - 5 - Secure Systems Engineering	Debajyoti Bera	2	<a href="https://onlinecourses.nptel.ac.in/noc22_cs23/preview">https://onlinecourses.nptel.ac.in/noc22_cs23/preview</a>

Note 1: Evaluation policy for online course offered by Dr. Sumit: Assignments (60%): Complete 75% of total assignments and each assignment grade should be 50% and above End-sem (40%): Viva

## B.Tech 1st Year (CSE+CSAI+CSAM) - Sec A- Monsoon 2021

Day	8.30-9.00	9-9.30	9.30-10	10-10.30	10.30-11	11-11.30	11.30-12	12-12.30	12.30-01	01-01.30	01.30-02	02-02.30	02.30-03	03-03.30	3:30-4	4-4:30	4:30-5	5.00-5.30	5.30-6.00	6.00-6.30				
Mon	DC			IHCI			L U N C H							Tut IP -Gp 1,2,3,4,5,6,7,8		Tut DC - GP 1,2,3,4,5,6,7,8		Tut M1- GP 1,2,3,4,5,6,7,8						
Tue	IP			M-I										Tut IP -Gp 9,10,11,12,13,14,15,16		Lab-IP-Gp 9, 10, 11, 12, 13,14,15, 16								
Wed	DC			IHCI										COM (All students)						Seminar Slot		Tut Comm - All Groups		
Thurs	DC			M-I										Lab DC Gp 9,10,11,12,13,14,15,16										
Fri	IP			M-I										Lab IP Gp 1,2,3,4,5,6,7,8						Tut DC - GP 9,10,11,12,13,14,15,16		Tut-M-I, GP 9,10,11,12,13,14,15,16		
Day	8.30-9.00	9-9.30	9.30-10	10-10.30	10.30-11	11-11.30	11.30-12	12-12.30	12.30-01	01-01.30	01.30-02	02-02.30	02.30-03	03-03.30	3:30-4	4-4:30	4:30-5	5.00-5.30	5.30-6.00	6.00-6.30				

Duration of the Lectures will be 50 mins and 80 mins( Mode-Online)

	Mandatory/ Elective	Course Code	Course Name	Instructor	Credit	Acronym
	Mandatory	COM101	Communications Skills	Payel Mukherjee (V)	4	Com
	Mandatory	CSE101	Introduction to Programming	Pankaj Jalote	4	IP
	Mandatory	ECE111	Digital Circuits	G S Visweswaran (V)	4	DC
	Mandatory	DES102	Introduction to HCI	Indrani De Parker (V)	4	IHCI
	Mandatory	MTH100	Math I	Acushla Saraswat (V)	4	M-I

## B.Tech 1st Year (CSB+CSD+CSSS+ECE) - Sec B- Monsoon 2021

Day	8.30-9.00	9-9.30	9.30-10	10-10.30	10.30-11	11-11.30	11.30-12	12-12.30	12.30-01	01-01.30	01.30-02	02-02.30	02.30-03	03-03.30	3:30-4	4-4:30	4:30-5	5.00-5.30	5.30-6.00	6.00-6.30		
Mon	DC			M-I	COM (All students)															Tut DC - GP 1,2,3,4,5,6,7,8		
Tue	IP			M-I																		
Wed	DC			IHCI																		
Thurs	DC			M-I																		
Fri	IP				IHCI																	

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Duration of the Lectures will be 50 mins and 80 mins (Mode-Online)

	Mandatory/ Elective	Course Code	Course Name	Instructor	Credit	Acronym
	Mandatory	COM101	Communications Skills	Payel Mukherjee (V)	4	Com
	Mandatory	CSE101	Introduction to Programming	Raghava Mutharaju	4	IP
	Mandatory	ECE111	Digital Circuits	SS Jamuar (V)	4	DC
	Mandatory	DES102	Introduction to HCI	Rajiv Ratn Shah	4	IHCI
	Mandatory	MTH100	Math I	Samaresh Chatterji (G)	4	M-I

## B.Tech. 2nd Year - Winter Semester 2022

Day	8:30-9	9:30-10	10:30-11	11:30-12	12:30-1	1-1:30	1:30-2	2-2:30	2:30-3	3-3:30	3:30-4	4-4:30	4:30-5	5-5:30	5:30-6
<b>Mon</b>	F&W DBMS DBMS EI		PB PCS DIS	IOQB MA SML ITS		L U N C H	SI GT			Tut IE Gp1/2			Tut TOC		
<b>Tue</b>			ECO	TOC IE STS			ADA ADA			M-IV			Tut M-IV		
<b>Wed</b>	SI		PB PCS DIS	PIS COO AAI			GT			Tut PCS					
<b>Thurs</b>	M-IV		F&W DBMS DBMS EI	TOC IE STS					Faculty Meeting				Seminar	Tut F&W Gp 1/2	
<b>Fri</b>			ECO	PIS COO AAI			IOQB MA SML ITS				Tut GT			ADA Tut Sec A	
						ADA ADA				Lab IE Gp 1/2				ADA Tut Sec B	

Duration of the Lectures will be 50 mins and 80 mins

Course No.	Course Name	Instructor	Acronym	Credits	On offer for	Course count to 5 for 4th Semester (Refer specific regulation for any ambiguity)									
BIO213	Introduction to Quantitative Biology	Jaspreet Kaur Dhanjal	IOQB	4	CSB-Core, CSE, ECE, CSAM, CSD, CSSS Electives	ECE5	CSE5	CSAM5	---	CSD5	CSS55	CSB5	---	---	---
BIO221	Practical Bioinformatics	Tavpritesh Sethi	PB	4	CSB, CSE-Core Elective, ECE, CSAM, CSSS Electives	ECE5	CSE2	CSAM5	---	---	CSS55	CSB4	---	---	---
CSE202	Fundamentals of Database Systems	Mukesh Mohania	DBMS	4	CSE-core, CSAI, ECE, CSAM Elective	ECE5	CSE1	CSAM5	CSAI1	---	---	---	---	---	---
CSE202	Fundamentals of Database Systems	C. Anantaram (V)	DBMS	4	CSB,CSSS,CSD-Core	---	---	---	---	CSD4	CSS53	CSB2	---	---	---
CSE222	Analysis and Design of Algorithms-A (Sec A)	Syamantak Das	ADA	4	CSE, CSSS - Core, ECE Elective	ECE5	CSE3	---	---	---	---	CSS51	---	---	---
CSE222	Analysis and Design of Algorithms-A (Sec B)	Diptapriyo Majumdar	ADA	4	CSAM,CSAI, CSD, CSB-Core	---	---	CSAM3	CSAI3	CSD1	---	---	---	---	CSB1
CSE322	Theory of Computation	Debajyoti Bera	TOC	4	CSAM-Core, CSE-Core elective,CSD,CSAI, CSSS-Elective	ECE5	CSE2	CSAM4	CSAI2	CSD5	CSS55	CSB3	---	---	---
CSE342	Statistical Machine Learning	A V Subramanyam	SML	4	CSAI Core, ECE, CSE, CSAM, CSD, CSSS Elective	ECE5	CSE5	CSAM5	CSAI4	CSD5	CSS55	---	---	---	---
DES205/519	Design of Interactive Systems	Grace Eden	DIS	4	CSD-Core, ECE, CSE, CSAM, CSSS Elective	ECE5	CSE5	CSAM5	---	CSD3	CSS55	---	---	---	---
DES206	Prototyping Interactive Systems	Richa Gupta	PIS	4	CSD-Core, CSE Core-Elective, ECE, CSAM, CSSS - Elective	ECE5	CSE2	CSAM5	---	CSD2	CSS55	---	---	---	---
ECE214	Integrated Electronics	Mohammad S Hashmi	IE	4	ECE-Core, CSE, CSAM, CSSS -Elective	ECE1	CSE5	CSAM5	---	---	CSS55	---	---	---	---
ECE230	Fields and Waves	Sayak Bhattacharya	F&W	4	ECE-Core, CSE, CSAM, CSSS -Elective	ECE2	CSE5	CSAM5	---	---	CSS55	---	---	---	---
ECE240	Principles of Communication Systems	Ranjitha Prasad	PCS	4	ECE-Core, CSE,CSAM, CSSS -Elective	ECE3	CSE5	CSAM5	---	CSD5	CSS55	---	---	---	---
ECO201	Macroeconomics	Kiriti Kanjilal	MA	4	ECE, CSE, CSAM, CSD, CSSS Elective	ECE5	CSE5	CSAM5	---	CSD5	CSS55	---	---	---	---
ECO221	Econometrics 1	Gaurav Arora	ECO	4	CSSS Core, ECE, CSE, CSAM, CSD, CSB- Elective	ECE5	CSE5	CSAM5	---	CSD5	CSS54	CSB3	---	---	---
MTH204	Maths IV - ODE/PDE	Ashish Kumar Pandey	MIV	4	ECE,CSAM-Core, CSE, CSAI-Core elective, CSD, CSSS-Elective	ECE4	CSE4	CSAM1	CSAI2	CSD5	CSS55	CSB3	---	---	---
MTH212	Abstract Algebra I	Anuradha Sharma	AAI	4	CSAM-Core, ECE, CSE, CSSS Elective	ECE5	CSE5	CSAM2	---	---	CSS55	---	---	---	---
MTH310	Graph Theory	Samaresh Chatterji (G)	GT	4	CSE,CSAI-Core elective, CSAM, ECE, CSSS, CSD-Elective	ECE5	CSE4	CSAM5	CSAI2	CSD5	CSS55	CSB3	---	---	---
MTH372	Statistical Inference	Monika Arora	SI	4	CSAI-core elective, ECE, CSE, CSAM, CSSS-Elective	ECE5	CSE5	CSAM5	CSAI2	---	CSS55	---	---	---	---
MTH377/MTH5	Convex Optimization	Rakesh Chaturvedi	COO	4	CSSS,CSAI, Core, ECE, CSE, CSAM-Elective	ECE5	CSE5	CSAM5	CSAI5	---	CSS52	---	---	---	---
SSH325/5xx	Ethics in AI (New)	Manohar Kumar	EI	4	CSAI, CSE, ECE, CSAM, CSD, CSB, CSSS Elective	ECE5	CSE5	CSAM5	CSAI1	CSD5	CSS55	CSB3	---	---	---
SOC207	Information Technology and Society	Amrit Srinivasan (V)	ITS	4	ECE, CSE, CSAM, CSD, CSB, CSSS - Elective	ECE5	CSE5	CSAM5	---	CSD5	CSS55	CSB3	---	---	---
SOC211	Science, Technology and Society	Shireen Mirza	STS	4	ECE, CSE, CSAM, CSD, CSB, CSSS - Elective	ECE5	CSE5	CSAM5	---	CSD5	CSS55	CSB3	---	---	---
	Basic Electronics														CSB3 (From April end)

## B.Tech. 3rd & 4th Year, M.Tech 1st & 2nd year, Ph.D - Winter 2022

*Lunch will be from 12.30-2.30 PM in staggered manner*

Day	8:30-9	9-9:30	9:30-10	10-10.30	10.30-11	11-11.30	11.30-12	12-12.30	12.30-1	1-1.30	1:30-2	2-2.30	2.30-3	3-3.30	3.30-4	4-4.30	4.30-5	5-5.30	5:30-6	6-6.30	6.30-7	7-7.30	
Mon	EI DP SP AOMML IMG AAII AP MLRC			FPP DL DIS PDCS IFA DSG			BStats GDD MC WCE CIA ITS MA SML				CADD PN CF CIIPS GT SI CP			Tut IML ~			Tut TOC ~						
Tue	WN PGM TMC MSD IML LO AST CLDS CMOR			ACB CV I2D AELD VCA TOE TACS BDA			MDT TOC IR NS LM STS ATHCC CRN				ML RS EF Sol ET IMB NSSII SNG			Tut PCS							MTL		
Wed	CADD PN CF CIIPS SI CP			FPP DL DIS PDCS IFA DSG			GPU AFC VDF COO ALA SW BDMH TDL CN					GT	Faculty Meeting		Seminar Slot								
Thurs	ACB CV I2D VCA TOE TACS BDA			EI DP SP AOMML IMG AAII AP MLRC			MDT TOC IR NS LM STS ATHCC CRN				BStats GDD MC WCE CIA ITS MA SML			Tut GT									
Fri	WN PGM TMC MSD IML LO AST CLDS CMOR			ML RS EF Sol ET IMB NSSII SNG			GPU AFC VDF COO ALA SW BDMH TDL CN				RM online										MTL		
Day	8:30-9	9-9:30	9:30-10	10-10.30	10.30-11	11-11.30	11.30-12	12-12.30	12.30-1	1-1.30	1:30-2	2-2.30	2.30-3	3-3.30	3.30-4	4-4.30	4.30-5	5-5.30	5:30-6	6-6.30	6.30-7	7-7.30	
<i>Duration of the Lectures will be 50 mins and 80 mins</i>																							

Course No.	Course Name	Instructor	Acronym	Credits	On offer
BIO522	Algorithms in Computational Biology	Arul Murugan	ACB	4	UG/PG
BIO5xx	Computational Methods in Oncology Research (New)	Debarka Sen Gupta	CMOR	4	UG/PG
BIO531	Introduction to Mathematical Biology	Sriram K	IMB	4	UG/PG
BIO541	Data science in Genomics	Vibhor Kumar	DSG	4	UG/PG
BIO543	Big Data Mining in Healthcare	G P S Raghava	BDMH	4	UG/PG
BIO545	Biostatistics	Gaurav Ahuja	BStats	4	UG/PG
BIO563	Computer Aided Drug Design	Arjun Ray	CADD	4	UG/PG
CSE322	Theory of Computation	Debajyoti Bera	TOC	4	UG
CSE342/CSE542	Statistical Machine Learning	A V Subramanyam	SML	4	UG/PG
CSE343/ECE363/ ECE563	Machine Learning	Saket Anand	ML	4	UG/PG
CSE344/CSE544/ ECE344/ECE544	Computer Vision	Koteswar Rao Jerripothula	CV	4	UG/PG
CSE354/CSE554	Networks and System Security II	Sambuddho Chakravarty	NSSII	4	UG/PG
CSE502	Foundations of Parallel Programing	Vivek Kumar	FPP	4	UG/PG
CSE504	Decision Procedures	Rahul Purandare	DP	4	UG/PG
CSE508	Information Retrieval	Rajiv Ratn Shah	IR	4	UG/PG
CSE516/ECE559	Theories of Deep Learning	Vinayak Abrol	TDL	4	UG/PG
CSE518	Concurrent and Learned Data Structure(New)	Bapi Chatterjee	CLDS	4	UG/PG
CSE524	Theory of Modern cryptography	Donghoon Chang	TMC	4	UG/PG
CSE535	Mobile computing	Mukulika Maity	MC	4	UG/PG
CSE538/ECE538	Wireless Network	Arani Bhattacharya	WN	4	UG/PG
CSE557	Big Data analytics	Vikram Goyal	BDA	4	UG/PG
CSE560	GPU Computing	Ojaswa Sharma	GPU	4	UG/PG
CSE561	Probabilistic Graphical Models	Anubha Gupta	PGM	4	UG/PG
CSE567	Programmable Networking (new)	Rinku Shah	PN	4	UG/PG
CSE568	Social Network Analysis (New)	Tanmoy Chakraborty	SNG	4	UG/PG
CSE618	Meta Learning (new)	Gautam Shroff	MTL	4	UG/PG
CSE632	Semantic Web	V. Raghava Mutharaju	SW	4	UG/PG
CSE640	Collaborative Filtering	Angshul Majumadar	CF	4	UG/PG
CSE641	Deep Learning	Md. Shad Akhtar	DL	4	UG/PG
CSE651	Topics in Adaptive Cybersecurity	Arun Balaji Buduru	TACS	4	UG/PG
CSE655	Network Science	Ganesh Bagler	NS	4	UG/PG
DES205/519	Design of Interactive Systems	Grace Eden	DIS	4	UG/PG
DES502	Introduction to 2D Animation	Anoop Ratnv (V)	I2D	4	UG/PG
DES506	Advanced Topics in Human-Centered Computing	Pushpendra Singh	ATHCC	4	UG/PG
CSE661/DES507	Affective Computing	Jainendra Shukla	AFC	4	UG/PG
DES512	Game Design and Development	Aman Samuel (V)	GDD	4	UG/PG
DES518	Introduction to Motion and Graphics	Anoop Ratn (V)	IMG	4	UG/PG
ECE412/ECE612	Mixed Signal Design	G S Visweswaran(V)	MSD	4	UG/PG
ECE432/ECE632	Radar Systems / Antenna	Shobha Sundaram	RS	4	UG/PG
ECE513	VLSI Design Flow	Sneh Saurabh	VDF	4	UG/PG
ECE537	Wireless Communication: Evolution from 3G to 5G	Vivek Bohara	WCE	4	UG/PG
ECE543	Principles of Digital Communication Systems	Anand Srivastava	PDCS	4	UG/PG
ECE573	Advanced Embedded Logic Design	Sumit Darak	AELD	4	UG/PG
ECE577	Machine Learning Techniques for Real Time Control	Sayan Basu Roy	MLRC	4	UG/PG
ECE5aom	Applied Optimization methods for machine learning (new)	Pravesh Biyani	AOMML	4	UG/PG
ECE5et	Estimation Theory for dynamic systems (NEW)	Sanat K Biswas	ET	4	UG/PG
ECE611	Memory Design and Test	Anuj Grover	MDT	4	UG/PG
ECO201	Macroeconomics	Kiriti Kanjilal	MA	4	UG
ENG599s	Research Methods	Sanat K Biswas	RM	2	PG
ENT413	Entrepreneurial Finance	Pankaj Vajpayee (V)	EF	4	UG/PG
ENT416/ENT516	Creativity, Innovation, and Inventive Problem Solving	Anuj Grover	CIIPS	4	UG/PG

MTH300	Introduction to Mathematical logic	Sankha S Basu	IML	4	UG
MTH310	Graph Theory	Samaresh Chatterji(G)	GT	4	UG
MTH311	Combinatorics and its applications	Samrith Ram	CIA	4	UG
MTH372	Statistical Inference	Monika Arora	SI	4	UG
MTH374/MTH574	Linear Optimization	Subhashree Mohapatra	LO	4	UG/PG
MTH377/MTH577	Convex Optimization	Rakesh Chaturvedi	COO	4	UG/PG
MTH510	Advanced Linear Algebra	Debika Banerjee	ALA	4	UG/PG
MTH513	Abstract Algebra-II	Sneha Chaubey	AAII	4	UG/PG
MTH542	Introduction to Functional Analysis	Satish Pandey	IFA	4	UG/PG
MTH544	Calculus on R <sup>n</sup> with Applications	Kaushik Kalyanaraman	CRN	4	UG/PG
MTH599	Variational Calculus and their Applications in Control Theory and	Sarthok Sircar	VCA	4	UG/PG
PSY301	Cognitive Psychology	Dr Sonia Baloni and Dr Venkata Ratandeeep Suri	CP	4	UG
PSY302	Social Psychology	Venkata Ratnadeep Suri	SP	4	UG
PSY305	Attention and Perception	Sonia Baloni	AP	4	UG
PSY306	Learning and Memory	Mrinmoy Chakrabarty	LM	4	UG
SOC207	Information Technology and Society	Amrit Srinivasan (V)	ITS	4	UG
SOC211	Science, Technology and Society	Shireen Mirza	STS	4	UG
SOC312/SOC502	Advanced Sociological Theory	Gayatri Nair	AST	4	UG/PG
SOC313/SOC503	Sociology of India: Themes and Perspectives	Smriti Singh	SoI	4	UG/PG
SSH300/SSH500	Theories of Ethics	Nishad Patnaik	TOE	4	UG/PG
SSH325/525	Ethics in AI (New)	Manohar Kumar	EI	4	UG/PG

#### Online courses for UG students

Course Code	Course Name	Instructor	Link	Credits	
ECE999A	Microprocessors and Microcontrollers	Sumit Darak	<a href="https://onlinecourses.nptel.ac.in/noc22_ee12/preview">https://onlinecourses.nptel.ac.in/noc22_ee12/preview</a>	2	UG
ECE999A2	Power Management Integrated Circuits	S S Jamuar(V)	<a href="https://onlinecourses.nptel.ac.in/noc22_ee41/preview">https://onlinecourses.nptel.ac.in/noc22_ee41/preview</a>	2	UG
ECE999A3	Antennas	Shobha Sundaram	<a href="https://onlinecourses.nptel.ac.in/noc22_ee22/preview">https://onlinecourses.nptel.ac.in/noc22_ee22/preview</a>	2	UG
ECE999A4	Hardware Security	Sujay Deb	<a href="https://onlinecourses.nptel.ac.in/noc22_cs48/preview">https://onlinecourses.nptel.ac.in/noc22_cs48/preview</a>	2	UG
CSE999A	Computational Geometry	Debajyoti Bera	<a href="https://onlinecourses.nptel.ac.in/noc22_cs41/preview">https://onlinecourses.nptel.ac.in/noc22_cs41/preview</a>	2	UG
CSE999A2	Introduction to Soft Computing	Debajyoti Bera	<a href="https://onlinecourses.nptel.ac.in/noc22_cs54/preview">https://onlinecourses.nptel.ac.in/noc22_cs54/preview</a>	2	UG
CSE999A3	Ethical Hacking	Debajyoti Bera	<a href="https://onlinecourses.nptel.ac.in/noc22_cs13/preview">https://onlinecourses.nptel.ac.in/noc22_cs13/preview</a>	2	UG
CSE999A4	Arithmetic Circuit Complexity	Debajyoti Bera	<a href="https://onlinecourses.nptel.ac.in/noc22_cs60/preview">https://onlinecourses.nptel.ac.in/noc22_cs60/preview</a>	2	UG
CSE999A5	Information, Security - 5 - Secure Systems Engineering	Debajyoti Bera	<a href="https://onlinecourses.nptel.ac.in/noc22_cs23/preview">https://onlinecourses.nptel.ac.in/noc22_cs23/preview</a>	2	UG

Note 1: Evaluation policy for online course offered by Dr. Sumit and Dr. SUJay: Assignments (60%): Complete 75% of total assignments and each assignment grade should be 50% and above End-sem (40%): Viva