International Institute of Information Technology Hyderabad
Course offerings in 2025-26 Semester I (Monsoon) - V4(30-July)
UG Programmes

CD - Course Discription -Programme Requirement; Institute Requirement

AD - Area Code - MA-Maths; CS-Comp Sci; EC-Electronics, CG-Cognitive Science;
HS-Human Sci; SC-Science; OE-Open Elective; CL-Compu. Linguistics; OT-Others

L-T-P-C: (Lecture hours - Tutorial hours - Practical Hours) per week - Credits

H1-1st Half of the Semester; H2-2nd Half of the Semester; H-1 Class per week with full Semester

CD	AD	Course No	Course Name	Credits (L-T-P-C)	Faculty Name(s)
B.Tech I year I Semester - CSE&CSD					
Pr	MA	MA5.101	Discrete Structures	3-1-0-4	Praveen P + Suryajith Ch
Pr	CS	CS0.101	Computer Programming	3-1-3-5	Abhishek Deshpande + Vineet Gandhi + Girish Varma
Pr	EC	EC2.101	Digital Systems and Microcontrollers	3-1-3-5	Madhava Krishna +Anil Kumar V +Anshu Sarje; Labs: Hari Kumar K + Chiranjeevi Y
Pr	MA	MA4.101	Real Analysis	3-1-0-4	Samyadeb Bhattacharya + Lalitha V + Uttam Singh
In	HS	OC2.101	Arts-1 **(H1)**	2-0-0-2	Saroja T K (Coordinator)
In	HS	OC3.101	Value Education-1 **(H)**	0-2-0-2	Anil Kumar V + Indranil Chakrabarty (Coordinators)
In	HS	OC1.101	Sports-1	0-2-0-1	Physical Education Centre
			Total 14-8-6-23		
B.Tech I year I Semester - ECE&ECD					
Pr	MA	EC5.101	Networks, Signals and Systems	3-1-0-4	Prasad Krishnan + Aftab Hussain
Pr	CS	CS0.101	Computer Programming	3-1-3-5	Abhishek Deshpande + Vineet Gandhi + Girish Varma
Pr	EC	EC2.101	Digital Systems and Microcontrollers	3-1-3-5	Madhava Krishna +Anil Kumar V +Anshu Sarje; Labs: Hari Kumar K + Chiranjeevi Y
Pr	MA	MA4.101	Real Analysis	3-1-0-4	Samyadeb Bhattacharya + Lalitha V + Uttam Singh
Pr	CS	EC2.102	Electronic Workshop-1 **(H2)**	2-0-3-2	Praful Mankar + Saikiran B
In	HS	OC2.101	Arts-1 **(H1)**	2-0-0-2	Saroja T K (Coordinator)
In	HS	OC3.101	Value Education-1 **(H)**	0-2-0-2	Anil Kumar V + Indranil Chakrabarty (Coordinators)
In	HS	OC1.101	Sports-1	0-2-0-1	Physical Education Centre
			Total 16-8-9-25		
B.Tech I year I Semester – CND					
Pr	MA	MA5.101	Discrete Structures	3-1-0-4	Praveen P + Suryajith Ch

Pr	CS	CS0.101	Computer Programming	3-1-3-5	Abhishek Deshpande + Vineet Gandhi + Girish Varma
Pr	EC	EC2.101	Digital Systems and Microcontrollers	3-1-3-5	Madhava Krishna +Anil Kumar V +Anshu Sarje; Labs: Hari Kumar K + Chiranjeevi Y
Pr	MA	MA4.101	Real Analysis	3-1-0-4	Samyadeb Bhattacharya + Lalitha V + Uttam Singh
Pr	SC	SC4.101	Computing in Sciences-1**(H2)**	2-0-3-2	Marimuthu Krishnan
In	HS	OC2.101	Arts-1 **(H1)**	2-0-0-2	Saroja T K (Coordinator)
In	HS	OC3.101	Value Education-1 **(H)**	0-2-0-2	Anil Kumar V + Indranil Chakrabarty (Coordinators)
In	HS	OC1.101	Sports-1	0-2-0-1	Physical Education Centre
			Total 16-8-9-25		

B.Tech I year I Semester – CLD

Pr	MA	MA5.101	Discrete Structures	3-1-0-4	Praveen P + Suryajith Ch
Pr	CS	CS0.101	Computer Programming	3-1-3-5	Abhishek Deshpande + Vineet Gandhi + Girish Varma
Pr	EC	EC2.101	Digital Systems and Microcontrollers	3-1-3-5	Madhava Krishna +Anil Kumar V +Anshu Sarje; Labs: Hari Kumar K + Chiranjeevi Y
Pr	CS	CL1.101	Introduction to Linguistics-1	3-1-0-4	Aditi Mukherjee
In	HS	OC2.101	Arts-1 **(H1)**	2-0-0-2	Saroja T K (Coordinator)
In	HS	OC3.101	Value Education-1 **(H)**	0-2-0-2	Anil Kumar V + Indranil Chakrabarty (Coordinators)
In	HS	OC1.101	Sports-1	0-2-0-1	Physical Education Centre
			Total 14-8-6-23		

B.Tech I year I Semester – CHD

Pr	MA	MA5.101	Discrete Structures	3-1-0-4	Praveen P + Suryajith Ch
Pr	CS	CS0.101	Computer Programming	3-1-3-5	Abhishek Deshpande + Vineet Gandhi + Girish Varma
Pr	EC	EC2.101	Digital Systems and Microcontrollers	3-1-3-5	Madhava Krishna +Anil Kumar V +Anshu Sarje; Labs: Hari Kumar K + Chiranjeevi Y
Pr	HS	HS4.102	Making of the Contemporary India	3-1-0-4	Aakansha Natani + Aniket Alam
Pr	HS	HS7.101	Human Sciences Lab-1 **(H2)**	3-1-0-2	Anirban Dasgupta
In	HS	OC2.101	Arts-1 **(H1)**	2-0-0-2	Saroja T K (Coordinator)
In	HS	OC3.101	Value Education-1 **(H)**	0-2-0-2	Anil Kumar V + Indranil Chakrabarty (Coordinators)
In	HS	OC1.101	Sports-1	0-2-0-1	Physical Education Centre
			Total 17-9-6-25		

B.Tech I year I Semester – CGD

Pr	MA	MA5.101	Discrete Structures	3-1-0-4	Praveen P + Suryajith Ch
Pr	CS	CS0.101	Computer Programming	3-1-3-5	Abhishek Deshpande + Vineet Gandhi + Girish Varma
Pr	EC	EC2.101	Digital Systems and Microcontrollers	3-1-3-5	Madhava Krishna +Anil Kumar V +Anshu Sarje; Labs: Hari Kumar K + Chiranjeevi Y

Pr	GS	GS0.101	Spatial Thinking and Practice	3-1-0-4	K S Rajan + Rehana Shaik
In	HS	OC2.101	Arts-1 **(H1)**	2-0-0-2	Saroja T K (Coordinator)
In	HS	OC3.101	Value Education-1 **(H)**	0-2-0-2	Anil Kumar V + Indranil Chakrabarty (Coordinators)
In	HS	OC1.101	Sports-1	0-2-0-1	Physical Education Centre
			Total 14-8-6-23		

B.Tech II year I Semester - CSE/CSD

Pr	MA	MA6.101	Probability and Statistics	3-1-0-4	Tejas Bodas
Pr	CS	CS1.301	Algorithm Analysis and Design	3-1-0-4	Srinathan Kannan
Pr	CS	CS3.301	Operating Systems and Networks	3-1-0-4	Karthik Vaidyanathan
Pr	CS	CS1.302	Automata Theory **(H1)**	3-1-0-2	Shantanav Chakraborty
Pr	CS	CS4.301	Data and Applications **(H2)**	3-1-0-2	Ponnurangam Kumaraguru
Pr	EC	EC3.202	Embedded Systems Workshop **(H)**	1-0-3-3	Deepak Gangadharan + Sachin Chaudhari + Aftab Hussain
Pr	SC	SC1.110a	Science 1	3-1-0-4	Prabhakar Bhimalapuram
In	HS	OC1.103	Sports-3	0-2-0-1	Physical Education Centre
			Total 19-8-3-24		

LE-CSD-2K25 I year I Semester

Pr	MA	MA6.101	Probability and Statistics	3-1-0-4	Tejas Bodas
Pr	CS	CS1.301	Algorithm Analysis and Design	3-1-0-4	Srinathan Kannan
Pr	CS	CS3.301	Operating Systems and Networks	3-1-0-4	Karthik Vaidyanathan
Pr	CS	CS1.302	Automata Theory **(H1)**	3-1-0-2	Shantanav Chakraborty
Pr	CS	CS4.301	Data and Applications **(H2)**	3-1-0-2	Ponnurangam Kumaraguru
In	HS	OC1.101	Sports-1	0-2-0-1	Physical Education Centre
			Total 15-7-0-17		

B.Tech II year I Semester - ECE/ECD

Pr	MA	MA6.102	Probability and Random Processes	3-1-0-4	Gowtham Kurri
Pr	EC	EC5.201	Signal Processing	3-1-3-5	Santosh Nannuru
Pr	EC	EC5.202	Systems Thinking	3-1-0-4	Spandan Roy + Vinod PK
Pr	EC	EC2.201	VLSI Design	3-1-0-4	Abhishek Srivastava
Pr	SC	SC1.110b	Science 1	3-1-0-4	Prabhakar Bhimalapuram
In	HS	OC1.103	Sports-3	0-2-0-1	Physical Education Centre
			Total 15-7-3-22		

LE-ECD-2K25 I year I Semester

Pr	MA	MA6.102	Probability and Random Processes	3-1-0-4	Gowtham Kurri
Pr	EC	EC5.201	Signal Processing	3-1-3-5	Santosh Nannuru
Pr	EC	EC5.202	Systems Thinking	3-1-0-4	Spandan Roy + Vinod PK
Pr	EC	EC2.201	VLSI Design	3-1-0-4	Abhishek Srivastava
Pr	SC	SC1.110b	Science 1	3-1-0-4	Prabhakar Bhimalapuram
In	HS	OC1.101	Sports-1	0-2-0-1	Physical Education Centre
			Total 15-7-3-22		

B.Tech II year I Semester –CND

Pr	MA	MA6.102	Probability and Random Processes	3-1-0-4	Gowtham Kurri
Pr	CS	SC1.203	Quantum Mechanics	3-1-0-4	Subhadip Mitra

Pr	CS	SC3.101	Introduction to Biology	3-1-0-4	Vinod PK
Pr	CS	SC4.110	Science Lab I **(H1)**	0-0-3-2	Chittaranjan Hens, Tapan K Sau
Pr	CN S	CS1.301	Algorithm Analysis and Design	3-1-0-4	Srinathan Kannan
Pr	CS	CS1.302	Automata Theory **(H1)**	3-1-0-2	Shantanav Chakraborty
Pr	CS	CS4.301	Data and Applications **(H2)**	2-0-3-2	Ponnurangam Kumaraguru
In	HS	OC1.103	Sports-3	0-2-0-1	Physical Education Centre
			Total 17-7-6-23		

B.Tech II year I Semester –CLD

Pr	MA	MA6.101	Probability and Statistics	3-1-0-4	Tejas Bodas
Pr	CS	CL2.203	Language and Society	3-1-0-4	Radhika Mamidi
Pr	CS	CL3.202	Computational Linguistics II: Comp Semantics and Discourse parsing	3-1-0-4	Rajakrishnan P Rajkumar
Pr	CS	CS1.301	Algorithm Analysis and Design	3-1-0-4	Srinathan Kannan
Pr	CS	CS1.302	Automata Theory **(H1)**	3-1-0-2	Shantanav Chakraborty
Pr	CS	CS4.301	Data and Applications **(H2)**	3-1-0-2	Ponnurangam Kumaraguru
In	HS	OC1.103	Sports-3	0-2-0-1	Physical Education Centre
			Total 15-7-0-21		

B.Tech II year I Semester –CHD

Pr	MA	MA6.101	Probability and Statistics	3-1-0-4	Tejas Bodas
Pr	HS	HS0.216	Thinking and Knowing in the Human Sciences - III	3-1-0-4	Anirban Dasgupta + Aakansha Natani
Pr	HS	HS0.202	Thinking and Knowing in the Human Sciences - II	3-1-0-4	Radhika Krishnan + Isha Dubey
Pr	CS	CS1.301	Algorithm Analysis and Design	3-1-0-4	Srinathan Kannan
Pr	CS	CS4.301	Data and Applications **(H2)**	2-0-3-2	Ponnurangam Kumaraguru
Pr	CS	CS1.302	Automata Theory **(H1)**	3-1-0-2	Shantanav Chakraborty
In	HS	OC1.103	Sports-3	0-2-0-1	Physical Education Centre
			Total 17-7-3-21		

B.Tech II year I Semester –CGD

Pr	MA	MA6.101	Probability and Statistics	3-1-0-4	Tejas Bodas
Pr	CS	CS4.301	Data and Applications **(H2)**	2-0-3-2	Ponnurangam Kumaraguru
Pr	CS	CS1.302	Automata Theory **(H1)**	3-1-0-2	Shantanav Chakraborty
Pr	CS	CS1.301	Algorithm Analysis and Design	3-1-0-4	Srinathan Kannan
Pr	CS	CS3.301	Operating Systems and Networks	3-1-0-4	Karthik Vaidyanathan
Pr	GS	GS2.401	Spatial Informatics	3-1-0-4	K S Rajan + Kuldeep Ramchandra K
Pr	EC	EC3.202	Embedded Systems Workshop **(H)**	1-0-3-3	Deepak Gangadharan + Sachin Chaudhari + Aftab Hussain
In	HS	OC1.103	Sports-3	0-2-0-1	Physical Education Centre
			Total 18-7-6-24		

B.Tech III year I Semester – CSE

Pr	CS		Bouquet Course – 1	3-1-0-4	
OT	SC		Science Elective – 1	3-1-0-4	
OT	HS		HSS Elective-1	3-1-0-4	
OT	OE		Open Elective-1	3-1-0-4	
Pr	CS		CSE-Honours-1 (Optional)	0-2-6-2	
			Total 12-6-6-16/18		

B.Tech III year I Semester - CSD

Pr	CS		Bouquet Course – 1	3-1-0-4	
OT	SC		Science Elective – 1	3-1-0-4	

OT	HS		HSS Elective-1	3-1-0-4	
OT	OE		Open Elective-1	3-1-0-4	
PR	CS		Stream Elective-1	3-1-0-4	
Pr	CS		CSE-Honours-1	0-2-6-2	
			Total 15-7-6-22		

LE-CSD-2K24 II year I Semester

Pr	CS		Bouquet Course – 1	3-1-0-4	
OT	SC		Science Elective – 1	3-1-0-4	
OT	HS		HSS Elective-1	3-1-0-4	
OT	OE		Open Elective-2	3-1-0-4	
PR	CS		Stream Elective-1	3-1-0-4	
Pr	CS	CS9.302	CSE-Honours-1	0-2-6-2	
			Total 15-7-6-22		

B.Tech III year I Semester – ECE

Pr	EC		Stream Foundation-2	3-1-0-4	
Pr	EC		Stream Elective-1	3-1-0-4	
OT	OE		Open Elective-1	3-1-0-4	
OT	HS		HSS Elective-1	3-1-0-4	
Pr	MA		Maths Elective	3-1-0-4	
Pr	EC		ECE-Honours-1 (Optional)	0-2-6-2	
			Total 15-7-6-20/22		

B.Tech III year I Semester – ECD and LED-2K24 II year I Semester

Pr	EC		Stream Foundation-2	3-1-0-4	
Pr	EC		Stream Elective-1	3-1-0-4	
OT	OE		Open Elective-1	3-1-0-4	
Pr	MA		Maths Elective	3-1-0-4	
OT	HS		HSS Elective-1	3-1-0-4	
Pr	EC		ECE-Honours-1	0-2-6-2	
			Total 15-7-6-22		

B.Tech III year I Semester – CND

Pr	CS	CS3.301	Operating Systems and Networks	3-1-0-4	Karthik Vaidyanathan
Pr	SC	SC2.304	Spectroscopy**(H1)**	3-1-0-2	Harjinder Singh
Pr	SC	SC2.305	Chemical Kinetics and Reaction Dynamics **(H2)**	3-1-0-2	Harjinder Singh
Pr	SC	SC3.202	Bioinformatics **(H1)**	3-1-0-2	Nita Parekh
Pr	SC	SC3.203	Systems Biology **(H2)**	3-1-0-2	Vinod PK
Pr	CS		CS Elective - 1	3-1-0-4	
Pr	SC	SC9.302	CNS Honors - 1	0-2-6-2	
Pr	SC	SC9.600	CCNSB seminar - 1	0 Cr	Abhishek Deshpande
			Total 12-6-6-18		

B.Tech III year I Semester – CLD

Pr	CS	CS3.301	Operating Systems and Networks	3-1-0-4	Karthik Vaidyanathan
Pr	CL	CS7.501	Advanced NLP	3-1-0-4	Manish Shrivastava
Pr	CL	CL9.302	CL-Honours-1	0-2-6-2	
Pr	SC	SC1.110b	Science 1	3-1-0-4	Prabhakar Bhimalapuram
Pr	CS		CS Elective-1	3-1-0-4	

OT	HS		HSS Elective - 1	3-1-0-4	
			Total 15-7-6-22		

B.Tech III year I Semester – CHD

Pr	CS	CS3.301	Operating Systems and Networks	3-1-0-4	Karthik Vaidyanathan
Pr	HS	HS0.301	Classical Text Readings	3-1-0-4	Saurabh Todariya
Pr	SC	SC1.110b	Science 1	3-1-0-4	Prabhakar Bhimalapuram
Pr	CS		CS Elective-1	3-1-0-4	
OT	HS		HSS Elective-2	3-1-0-4	
Pr	HS	HS9.302	HS-Honours-1	0-2-6-2	
			Total 15-7-6-22		

B.Tech IV year I Semester - CSE

Pr	CS	CS9.401/ CS9.402	BTP II / CSE-Honours Project III	0-2-6-2	
Pr	HS	HS0.203a &HS0.203b	Basics of Ethics **(H1&H2)**	3-1-0-2	Saurabh Todariya + Nabanita Barman
Pr	CS		Bouquet Core-4	3-1-0-4	
Pr	OE		Open Elective-3	3-1-0-4	
Pr	OE		Open Elective-4	3-1-0-4	
			Total 12-6-6-16		

B.Tech IV year I Semester - CSD

Pr	CS	CS9.402	CSE-Honours Project III	0-2-6-2	
Pr	HS	HS0.203a &HS0.203b	Basics of Ethics **(H1&H2)**	3-1-0-2	Saurabh Todariya + Nabanita Barman
Pr	CS		Stream Elective-3	3-1-0-4	
Pr	CS		Bouquet Core-4	3-1-0-4	
Pr	OE		Open Elective-3	3-1-0-4	
Pr	OE		Open Elective-4	3-1-0-4	
			Total 15-7-6-20		

LE-CSD-2K23 III year I Semester

Pr	CS	CS9.402	CSE-Honours Project III	0-2-6-2	
Pr	HS	HS0.203a &HS0.203b	Basics of Ethics **(H1&H2)**	3-1-0-2	Saurabh Todariya + Nabanita Barman
Pr	CS		Stream Elective-3	3-1-0-4	
Pr	CS		Bouquet Core-4	3-1-0-4	
Pr	OE		Open Elective-4	3-1-0-4	
Pr	OE		Open Elective-5	3-1-0-4	
			Total 15-5-6-20		

B.Tech IV year I Semester - ECE

Pr	EC	EC9.401/ EC9.402	BTP II/ECE-Honours Project III	0-2-6-2	
Pr	HS	HS0.203a &HS0.203b	Basics of Ethics **(H1&H2)**	3-1-0-2	Saurabh Todariya + Nabanita Barman
Pr	EC		Stream Elective-3	3-1-0-4	
Pr	OE		Open Elective-3	3-1-0-4	
OT	SC		Science Elective-1	3-1-0-4	
			Total 12-4-6-16		

B.Tech IV year I Semester – ECD and LED-2K23 III year I semester

Pr	EC	EC9.402	ECE-Honours Project III	0-2-6-2	
Pr	EC		Stream Elective-4	3-1-0-4	
Pr	EC		Stream Elective-5	3-1-0-4	
Pr	OE		Open Elective-3	3-1-0-4	

OT	SC		Science Elective-1	3-1-0-4	
In	HS	HS0.203a &HS0.203b	Basics of Ethics **(H1&H2)**	3-1-0-2	Saurabh Todariya + Nabanita Barman
			Total 15-7-6-20		

B.Tech IV year I Semester – CND

Pr	SC	SC9.402	CNS-Honours Project III	0-2-6-2	
Pr	SC		CNS Elective-3	3-1-0-4	
Pr	CS		CS Elective-3	3-1-0-4	
Pr	CS		CS Elective-4	3-1-0-4	
In	HS	HS0.203a &HS0.203b	Basics of Ethics **(H1&H2)**	3-1-0-2	Saurabh Todariya + Nabanita Barman
Pr	SC	SC9.600	CCNSB Seminar-3	0 Cr	Abhishek Deshpande
			Total 12-6-6-16		

B.Tech IV year I Semester – CLD

Pr	CL	CL9.402	CL-Honours Project III	0-2-6-2	
Pr	CL		CL Stream Elective-2	3-1-0-4	
Pr	CL		CL Stream Elective-3	3-1-0-4	
Pr	CS		CS Elective-3	3-1-0-4	
Pr	HS	HS0.203a &HS0.203b	Basics of Ethics **(H1&H2)**	3-1-0-2	Saurabh Todariya + Nabanita Barman
Pr	OE		Open Elective-2	3-1-0-4	
			Total 15-7-6-20		

B.Tech IV year I Semester – CHD

Pr	HS	HS9.402	HS-Honours Project-3	0-2-6-2	
OT	HS		HSS Elective-4	3-1-0-4	
OT	HS		HSS Elective-5	3-1-0-4	
Pr	MA		Maths Elective	3-1-0-4	
Pr	CS		CS Elective-4	3-1-0-4	
Pr	OE		Open Elective-3	3-1-0-4	
			Total 15-7-6-22		

B.Tech V year I Semester – CSD (LE-CSD-2K21-IV year I Semester)

Pr	CS	CS9.605	Thesis	12 Cr	
In	OT	OC9.600	Institute Seminar	1 Cr	
			Total 13 credits		

B.Tech V year I Semester – ECD (LE-ECD-2K21-IV year I Semester)

Pr	EC	EC9.605	Thesis	12 Cr	
In	OT	OC9.600	Institute Seminar	1 Cr	
			Total 13 credits		

B.Tech V year I Semester – CLD

Pr	CL	CL9.605	Thesis	12 Cr	
In	OT	OC9.600	Institute Seminar	1 Cr	
			Total 13 credits		

B.Tech V year I Semester – CND

Pr	SC	SC9.605	Thesis	12 Cr	
OT	OT		Open Elective 1	3-1-0-4	
Pr	SC	SC9.600	CCNSB seminar - 5	0 Cr	
			Total 3-1-0-16		

B.Tech V year I Semester – CHD

Pr	HS	HS9.605	Thesis	12 Cr	

CD	AD	Course Code	Course Name	Credits	Faculty Name(s)
In	OT	OC9.600	Institute Seminar	1 Cr	
			Total 13 credits		

PG Programmes

CD	AD	Course Code	Course Name	Credits	Faculty Name(s)
M.Tech I year I Semester - CSE & CSIS					
Pr	CS	CS1.304	Data Structures & Algorithms for Problem Solving	3-0-2-6	Lini Thomas + Kshitij Gajjar
Pr	MA	MA6.301	Maths for Computer Science 1- Probability and Statistics (H1)	3-1-0-2	Naresh Manvani
Pr	MA	MA6.302	Maths for Computer Science 2 - Linear Algebra (H2)	3-1-0-2	Pawan Kumar
Pr	CS	CS6.302	Software Systems Development	3-0-2-4	Sai Anirudh K + Abhishek Singh
Pr	CS	CS3.304	Advanced Operating Systems	3-1-0-4	Krishna Reddy P
			Total 12-1-5-18		
M.Tech II year I Semester – CSE					
Pr	CS		Bouquet Core	3-1-0-4	
Pr	CS		Bouquet Core	3-1-0-4	
Pr	OT		Area Elective	3-1-0-4	
Pr	CS		Breadth Elective/Project/ Independent Study	3-1-0-4	
			Total 12-4-0-16		
* At most 4 credits can be converted to Project/Independent Study in lieu of course credits(66)					
M.Tech II year I Semester – CSIS					
Pr	CS	CS8.501	Research in Information Security	3-1-0-4	Srinathan Kannan + Ashok Kumar Das
Pr	CS	CS3.402	Advanced Computer Networks	3-1-0-4	Ankit Gangwal
Pr	CS		Bouquet Elective	3-1-0-4	
Pr	CS		Area/CS/IT Elective	3-1-0-4	
			Total 12-4-0-16		
M.Tech I Year I Semester – CASE					
Pr	SE	CE1.501	Structural Dynamics	3-1-0-4	Sunitha Palissery
Pr	CS	CS0.301	Computer Problem Solving	3-1-3-4	Shatrunjay Rawat
Pr	SE	CE4.501	Finite Element Methods	3-1-0-4	Jofin George
Pr	SE	CE1.502	Structural Engineering Design Studio	3-1-0-4	Shubham Singhal
Pr	SE	CE0.501	Theory of Elasticity	3-1-0-4	Pravin Kumar Venkat Rao
			Total 15-5-0-20		
M.Tech II Year I Semester – CASE					
Pr	CS	CE9.609	IoT Workshop	3-1-0-4	Maitreya Maity + Shubham Singhal + Sunitha Palissery
Pr	CE		CASE Elective-4	3-1-0-4	Sunitha Palissery
Pr	CE		CASE Elective-5	3-1-0-4	Pravin Kumar Venkat Rao
Pr	CE		CASE Elective-6	3-1-0-4	Jofin George
Pr	CE		CASE Elective-7	3-1-0-2	Shubham Singhal
			Total 12-4-0-14		
M.Tech I Year I Semester – Product Design and Management					
Pr	CS	CS6.302	Software Systems Development	3-1-0-4	Sai Anirudh K + Abhishek Singh
Pr	CS	CS9.501	User Research Methods (H2)	3-1-0-2	Priyanka Srivastava
Pr	PD	PD1.301	Design Thinking - Research to Define (H1)	3-1-0-2	Raman Saxena + Y. Raghu Reddy

Pr	PD	PD1.401	Design Thinking - Idea to Evaluate **(H2)**	3-1-0-2	Raman Saxena + Y. Raghu Reddy
Pr	PD	PD2.401	Product Management 101 **(H1)**	3-1-0-2	Ramesh Swaminathan
Pr	PD	PD2.421	Business Fundamentals	3-1-0-4	Himanshu Warudkar + Mahesh Natarajan
Pr			Bridge / Technology / Systems Elective	3-1-0-4	
Pr	OT	PD9.601	PDM-Seminar	0 Cr	Guest Speakers
			Total 15-5-2-16		

M.Tech II Year I Semester – Product Design and Management

Pr	PD	PD9.401	PDM Project-1	8 Cr	
Pr	PD		Technology / Systems / Open Elective	3-1-0-4	
Pr	PD		Technology / Systems / Open Elective	3-1-0-4	
			Total 4-1-0-16		

Electives

		CNO	CName	Credits	Faculty Name(s)
Electives for CND Students					
		SC1.421	Introduction to Quantum Field Theory **(40)**	3-1-0-4	Diganta Das + Monalisa Patra
		SC2.401	Topics in Nanosciences	3-1-0-4	Tapan Kumar Sau
		SC1.415	Physics of Early Universe	3-1-0-4	Diganta Das
		SC1.440	Dynamical Processes in Complex Networks	3-1-0-4	Chittaranjan Hens
Electives for CLD Students					
		CS4.406	Information Retrieval & Extraction	3-1-0-4	Anil Nelakanti
		CG1.402	Intro to Cognitive Science	3-1-0-4	Vishnu Sreekumar + Bapi Raju S
		CL2.405	Speech Analysis and Linguistics	3-1-0-4	Chiranjeevi Yarra
		CL3.411	NLP for Healthcare	3-1-0-4	Parameshwari Krishnamurthy + Dipti M Sharma
		CL3.410	Language Models and Agents	3-1-0-4	Vasudeva Varma + Vandan Mujadia
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 & Communications Stream				
		EC5.410	Information Theory	3-1-0-4	Arti Yardi
		CS7.404	Digital Image Processing	3-1-0-4	Anoop M Namboodiri
		CS7.403	Statistical Methods in AI	3-1-0-4	Ravi Kiran S + Sai Kiran B
		EC5.407	Wireless Communications	3-1-0-4	Praful Mankar
		EC5.406	Signal Detection and Estimation Theory	3-1-0-4	Santosh Nannuru
		EC5.413	Quantum Error Correcting Codes	3-1-0-4	Lalitha V
	VLSI and Embedded Systems Stream				
		EC2.408	Digital VLSI Design	3-1-0-4	Zia Abbas
		EC2.410	CMOS References and Regulators	3-1-0-4	Zia Abbas + Abhishek Pullela
		CS7.403	Statistical Methods in AI	3-1-0-4	Ravi Kiran S + Sai Kiran B
		CS2.502	Hardware for AI	3-1-0-4	Priyesh Shukla + Suresh Purini + Girish Varma
	Robotics Stream				
		CS7.503	Mobile Robotics	3-1-0-4	K Madhava Krishna
		CS7.404	Digital Image Processing	3-1-0-4	Anoop M Namboodiri

		EC4.401	Robotics: Dynamics and Control	3-1-0-4	Antony Thomas
		CS7.403	Statistical Methods in AI	3-1-0-4	Ravi Kiran S + Sai Kiran B

Electives for PG CASE students

		GS2.401	Spatial Informatics	3-1-0-4	K S Rajan + Kuldeep Ramchandra K
		CE1.607	Earthquake Resistant Design of Masonry Structures	3-1-0-4	P Pravin Kumar Venkat Rao
		CE1.610	Advanced Design of Steel Structures	3-1-0-4	Sunitha Palissery
		CS9.428	Environmental Science & Technology	3-1-0-4	Ramachandra Prasad Pillutla
		CE1.625	Structural Assessment of Existing Infrastructure	3-1-0-4	Jofin George
		CE1.621	Retrofit of Existing Infrastructure **(H1)**	3-1-0-2	Shubham Singhal
		GS3.403	Geospatial Technology for Disaster Risk Modelling	3-1-0-4	Kiran Chand Thumaty and Rehana Shaik

Electives for M.Tech PDM students

Design Elective		PD1.501	Human Computer Interaction **(H2)**	3-1-0-2	Raman Saxena
		CS9.429	Design for Social Innovation	3-1-0-4	Ramesh Loganathan + Arjun Rajashekar
Business Electives		PD2.501	Product Marketing	3-1-0-4	Ravi Warrior
		PD2.402	Early Stage Funding for a Startup**(H2)**	3-1-0-2	Sridhar Kalyanasundaram

Bouquet Courses - Registration Limit: 150

Theory

		CS1.405	Modern Complexity Theory **(100)**	3-1-0-4	Ashok Kumar Das
		CS1.402	Principles of Programming Languages **(100)**	3-1-0-4	Venkatesh Choppella

Systems

		CS3.401	Distributed Systems **(100)**	3-1-0-4	Kishore Kothapalli
		CS3.402	Advanced Computer Networks **(150)**	3-1-0-4	Ankit Gangwal

Artificial Intelligence

		CS7.403	Statistical Methods in AI **(200)**	3-1-0-4	Ravi Kiran S + Sai Kiran B
		CS4.406	Information Retrieval & Extraction **(100)**	3-1-0-4	Anil Nelakanti
		CS7.501	Advanced NLP **(100)**	3-1-0-4	Manish Shrivastava
		CS4.405	Data Analytics I **(100)**	3-1-0-4	Krishna Reddy Polepalli

IT + X

		CG1.402	Intro to Cognitive Science **(50)**	3-1-0-4	Vishnu Sreekumar
		GS2.401	Spatial Informatics **(50)**	3-1-0-4	K S Rajan + Kuldeep Ramchandra K

CSE/Open Electives

		CS8.501	Research in Information Security	3-0-1-4	Srinathan Kannan + Ashok Kumar Das
		CS3.405	Blockchain and Web3 Development **(Max: 40 Students)**	3-1-0-4	Ankit Gangwal
		CG3.401	Introduction to Neural and Cognitive Modeling	3-1-0-4	Bapiraju Surampudi
		CG3.402	Behavioral Research & Experimental Design **(50)**	3-1-0-4	Vinoo Alluri
		CS6.501	Topics in Software Engineering	3-1-0-4	Raghu Reddy Y + Karthik Vaidhyanathan
		CS7.504	Fairness, Privacy and Ethics in AI **(Max:40)**	3-1-0-4	Sujit P Gujar

		CS9.429	Design for Social Innovation	3-1-0-4	Ramesh Loganathan + Arjun Rajashekar
		CL2.405	Speech Analysis and Linguistics	3-1-0-4	Chiranjeevi Yarra
		CG9.600	Cognitive Science Seminar	0 Cr	Priyanka Srivastava + Bapi Raju
		EC5.412	Foundations for Signal Processing and Communication **(Open for MS&PhD students)**	3-1-0-4	Praful Mankar + Arti Yardi
		CS1.504	Quantum Information Theory	3-1-0-4	Siddhartha Das
		CS9.428	Environmental Science & Technology	3-1-0-4	Ramachandra Prasad Pillutla
		CG4.402	Introduction to Neuroeconomics	3-1-0-4	Kavita Vemuri
		CG3.502	Neuroinformatics	3-1-0-4	Vishnu Sreekumar
		GS1.501	Advanced Remote Sensing	3-1-0-4	RC Prasad + Kiran Chand T
		CS2.502	Hardware for AI	3-1-0-4	Priyesh Shukla + Suresh Purini + Girish Varma
		GS2.402	Cyber GIS: Geospatial Web and GeoBI **(Max:15)**	3-1-0-4	K S Rajan +Kuldeep Kurte
		CS7.506	Causal Inference	3-1-0-4	Naresh Manwani
		CS9.425	Social Science Perspective on HCI **(Open) (80)**	3-1-0-4	Nimmi Rangaswamy
		CL3.410	Language Models and Agents	3-1-0-4	Vasudeva Varma + Vandan Mujadia
		CL3.411	NLP for Healthcare	3-1-0-4	Parameshwari Krishnamurthy + Dipti M Sharma
Open Electives Only for UG Students					
		CS3.306	Algorithms and Operating Systems **(Open Elective) Only for UG ECE/D students**	3-1-0-4	Lini Teresa Thomas + Deepak Gangadharan
		GS3.403	Geospatial Technology for Disaster Risk Modelling **(Open Elective)**	3-1-0-4	Kiran Chand Thumaty+Rehana Shaik
		PD1.501	Human Computer Interaction **(H2)**	3-1-0-2	Raman Saxena
		PD2.501	Product Marketing	3-1-0-4	Ravi Warrior
Math Electives (Random selection) Maximum no. of students for the following courses is: 50 each)					
		CS1.407	Entropy and Information	3-1-0-4	Indranil Chakrabarty
		MA4.404	Functional Analysis	3-1-0-4	Lakshmi Burra
Science Electives (Random selection) Max. no of students for each course is given in the brackets					
		SC3.321	Biomolecular Structure Interaction & Dynamics **(35)** **Prerequisites: ABA, GSC or equivalent**	3-1-0-4	B.Gopalakrishnan
		SC1.421	Introduction to Quantum Field Theory **(40)**	3-1-0-4	Diganta Das + Monalisa Patra
		SC2.401	Topics in Nanosciences **(60)**	3-1-0-4	Tapan Kumar Sau
		SC2.309	Chemistry Topics for Engineers **(120)**	3-1-0-4	Tapan Kumar Sau + Prabhakar B
		SC1.440	Dynamical Process in Complex Networks **(40)**	3-1-0-4	Chittaranjan Hens
		SC1.415	Physics of Early Universe **(50)**	3-1-0-4	Diganta Das
		SC1.311	Quantum Materials and Devices **(50)**	3-1-0-4	Mathimalar S

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

		CS9.425	Social Science Perspective on HCI **(80)**	3-1-0-4	Nimmi Rangaswamy
		HS1.210	Music Workshop **(35)**	3-1-0-4	Saroja T K
		HS1.208	Introduction to Film Studies	3-1-0-4	Sushmita Banerji
		HS3.201	Introduction to History	3-1-0-4	Isha Dubey
		HS2.201	Introduction to Sociology	3-1-0-4	Radhika Krishnan
		HS1.204	Introduction to Literature	3-1-0-4	Nazia Akhtar
		HS1.401	Readings from Hindi Literature	3-1-0-4	Harjinder Singh
		HS2.202	Introduction to Psychology	3-1-0-4	Priyanka Srivastava
		HS2.401	Work, Entrepreneurship and Technology in Contemporary Societies	3-1-0-4	Rajorshi Ray
		HS1.304	Environmental Humanities **(60)**	3-1-0-4	Subha Chakraburtty
		HS8.401	Rethinking Corruption in India **(25)**	3-1-0-4	Aniket Alam

Sd/-

Date: 25-06-2025   **Dean (Academics)**