International Institute of Information Technology, Hyderabad
Course offerings in 2020-21 Semester I (Monsoon)

UG Programmes

Version-1 (14.7.2020)

CD	AD	CNO	CName	Credits	Faculty Name(s)
B.Tech I year I Semester - CSE&CSD					
In	MA	MA5.101	Discrete Structures	3-1-0-4	Ashok Kumar Das
In	CS	CS0.101	Computer Programming	3-1-3-5	Suresh Purini + Ziaul Choudhry (lab)
In	EC	EC2.101	Digital Systems and Microcontrollers	3-1-3-5	Aftab Hussain + Anil + Hari
In	EC	MA4.101	Real Analysis	3-1-0-4	Lakshmi Burra
In	HS	OC2.101	Arts-1	2-0-0-2	CEH Lecturers
In	HS	OC3.101	Value Education-1	0-2-0-2	Radhika Mamidi (Coordinator)
In	HS	OC1.101	Sports-1	0-2-0-1	Physical Education Center
			Total 14-8-6-23		
B.Tech I year I Semester - ECE&ECD					
In	MA	EC5.101	Networks Signals and Systems	3-1-0-4	Jayanthi Sivaswamy + Anshu Sarje
In	CS	CS0.101	Computer Programming	3-1-3-5	Suresh Purini + Ziaul Choudhry (lab)
In	EC	EC2.101	Digital Systems and Microcontrollers	3-1-3-5	Aftab Hussain + Anil + Hari
In	EC	MA4.101	Real Analysis	3-1-0-4	Lakshmi Burra
In	CS	EC2.102	Electronic Workshop-1 **(H2)**	2-0-3-2	Madhava Krishna
In	HS	OC2.101	Arts-1	2-0-0-2	CEH Lecturers
In	HS	OC3.101	Value Education-1	0-2-0-2	Radhika Mamidi (Coordinator)
In	HS	OC1.101	Sports-1	0-2-0-1	Physical Education Center
			Total 16-8-9-25		
B.Tech I year I Semester – CND					
In	MA	MA5.101	Discrete Structures	3-1-0-4	Ashok Kumar Das
In	CS	CS0.101	Computer Programming	3-1-3-5	Suresh Purini + Ziaul Choudhry (lab)
In	EC	EC2.101	Digital Systems and Microcontrollers	3-1-3-5	Aftab Hussain + Anil + Hari
PR	CNS	MA4.101	Real Analysis	3-1-0-4	Lakshmi Burra
In	CS	CN4.110	Computing in Sciences-1**(H)**	2-0-3-2	Prabhakar B
In	HS	OC2.101	Arts-1	2-0-0-2	CEH Lecturers
In	HS	OC3.101	Value Education-1	0-2-0-2	Radhika Mamidi (Coordinator)
In	HS	OC1.101	Sports-1	0-2-0-1	Physical Education Center
			Total 16-8-9-25		
B.Tech I year I Semester – CLD					
In	MA	MA5.101	Discrete Structures	3-1-0-4	Ashok Kumar Das
In	CS	CS0.101	Computer Programming	3-1-3-5	Suresh Purini + Ziaul Choudhry (lab)
In	EC	EC2.101	Digital Systems and Microcontrollers	3-1-3-5	Aftab Hussain + Anil + Hari
In	CS	CL1.101	Introduction to Linguistics-1	3-1-0-4	Aditi Mukherjee
In	HS	OC2.101	Arts-1	2-0-0-2	CEH Lecturers
In	HS	OC3.101	Value Education-1	0-2-0-2	Radhika Mamidi (Coordinator)
In	HS	OC1.101	Sports-1	0-2-0-1	Physical Education Center
			Total 14-8-6-23		

B.Tech I year I Semester – CHD

In	MA	MA5.101	Discrete Structures	3-1-0-4	Ashok Kumar Das
In	CS	CS0.101	Computer Programming	3-1-3-5	Suresh Purini + Ziaul Choudhry (lab)
In	EC	EC2.101	Digital Systems and Microcontrollers	3-1-3-5	Aftab Hussain + Anil + Hari
In	HS	HS8.101	Making of Contemporary World	3-1-0-4	Aniket Alam
In	HS	HS7.001	Human Sciences Lab-1 (H2)	3-1-0-2	Radhika Krishnan + Vikram Pudi, and others
In	OT	OC2.101	Arts-1	2-0-0-2	CEH Lecturers
In	OT	OC3.101	Value Education-1	0-2-0-2	Radhika Mamidi (Coordinator)
In	OT	OC1.101	Sports-1	0-2-0-1	Physical Education Center
			Total 17-9-6-25		

B.Tech II year I Semester - CSE/CSD

In	MA	MA6.101	Probability and Statistics	3-1-0-4	Pawan Kumar
In	CS	CS1.301	Algorithm Analysis & Design	3-1-0-4	Srinathan Kannan
In	CS	CS3.301	Computer Systems Engineering-I	3-1-0-4	Krishna Reddy
In	CS	CS4.301	Data and Applications (H1)	3-1-0-2	Kamal Karlapalem
Pr	EC	SC1.110	Science I	3-1-0-4	Prabhakar B
			Total 15-5-0-18		

B.Tech II year I Semester - ECE/ECD

Pr	MA	MA6.102	Probability and Random Processes	3-1-0-4	Lalitha V
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	EC5.204	Communicaton and Controls in IoT (H1)	3-1-0-2	Sachin Chaudhari + Aftab
Pr	EC	SC1.110	Science I	3-1-0-4	Prabhakar B
			Total 15-5-3-19		

B.Tech II year I Semester –CND

In	MA	MA6.102	Probability and Random Processes	3-1-0-4	Lalitha V
In	CS	SC1.203	Quantum Mechanics	3-1-0-4	Subhadip Mitra
In	CS	SC3.101	Introduction to Biology	3-1-0-4	Vinod PK
PR	CNS	CS1.301	Algorithm Analysis & Design	3-1-0-4	Srinathan Kannan
In	CS	CS4.301	Data and Applications (H1)	2-0-3-2	Kamal Karlapalem
			Total 14-4-3-18		

B.Tech II year I Semester –CLD

In	MA	MA6.101	Probability and Statistics	3-1-0-4	Pawan Kumar
In	CS	CL2.203	Language and Society	3-1-0-4	Radhika Mamidi
In	CS	CL3.202	Computational Linguistics II: Comp Semantics and Discourse parsing	3-1-0-4	Dipti M Sharma
In	CS	CS1.301	Algorithm Analysis & Design	3-1-0-4	Srinathan Kannan
In	CS	CS4.301	Data and Applications (H1)	2-0-3-2	Kamal Karlapalem
			Total 14-4-3-18		

B.Tech II year I Semester –CHD

In	MA	MA6.101	Probability and Statistics	3-1-0-4	Pawan Kumar
Pr	HS		Thinking and Knowing in the Human Sciences - II	3-1-0-4	Radhika Krishnan + Aniket Alam
Pr	HS		Classical Text Readings - I	3-1-0-4	Ashwin J + Don D'Cruz
In	CS	CS1.301	Algorithm Analysis and Design	3-1-0-4	Srinathan Kannan
In	CS	CS4.301	Data and Applications (H1)	2-0-3-2	Kamal Karlapalem
			Total 14-4-3-18		

			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		HS 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 12-4-0-16/18		
			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		HS 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 12-4-8-18		
			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	MA		Maths Elective	3-1-0-4	
Pr	EC		Elective-1	3-1-0-4	
OT	HS		HSS Elective-1	3-1-0-4	
Pr	EC		ECE-Honours-1 (Optional)	0-2-6-2	
			Total 15-5-0-20/22		
			B.Tech III year I Semester – ECD		
Pr	EC		Stream Foundation-2	3-1-0-4	
Pr	EC		Stream Elective-1	3-1-0-4	
OT	MA		Maths Elective	3-1-0-4	
Pr	EC		Elective-1	3-1-0-4	
OT	HS		HSS Elective-1	3-1-0-4	
Pr	EC		ECE-Honours-1	0-2-6-2	
			Total 15-5-6-22		
			B.Tech III year I Semester – CND		
In	CS	CS3.301	Computer Systems Engineering-I	3-1-0-4	Krishna Reddy
Pr	CS		CS elective - 1	3-1-0-4	
Pr	CNS	SC2.304	Spectroscopy(H1)	3-1-0-2	Marimuthu Krishnan
Pr	CNS	SC2.305	Chemical Kinetics and Reaction Dynamics (H2)	3-1-0-2	Harjinder Singh
Pr	CNS	SC3.202	Bioinformatics(H1)	3-1-0-2	Nita Parekh
Pr	CNS	SC3.203	Systems Biology(H2)	3-1-0-2	Vinod PK
Pr	CNS		CNS Honors - 1	0-2-6-2	
Pr	CNS	SC4.120	CCNSB seminar - 1	0 Cr	
			Total 12-4-6-18		
			B.Tech III year I Semester – CLD		
Pr	CL		CL-Honours-1	0-2-6-2	
Pr	CL		Advanced NLP	3-1-0-4	Manish Shrivastava
Pr	CS		CS Elective-1	3-1-0-4	
Pr	Sc	SC1.110	Science I	3-1-0-4	Prabhakar B
OT	HS		HSS Elective - 1	3-1-0-4	
			Total 12-6-6-18		
			B.Tech IV year I Semester - CSE		
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	

OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
Pr	CS		Bouquet Core	3-1-0-4	
In	CS	CSE497/ CSE493	BTP II / CSE-Honours Project III	0-0-8-4	
			Elective (CS/Free)	3-1-0-4	
			Total 12-4-8-20		

B.Tech IV year I Semester - CSD

OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
Pr	CS		Bouquet Core	3-1-0-4	
Pr	CS		Research Stream/CS Course	3-1-0-4	
In	CS	CSE493	Honours Project III	0-0-8-4	software
			Elective (CS/Free)	3-1-0-4	
			Total 15-5-8-24		

B.Tech IV year I Semester - ECE

In	CS	ICS331	Algorithms & Operating Systems	3-1-0-4	Lini Thomas
In	EC	ECE497/ ECE493	BTP II/ECE-Honours Project III	0-0-8-4	
Pr	EC		EC elective	3-1-0-4	
Pr	EC		EC elective	3-1-0-4	
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
			Total 12-4-8-20		

B.Tech IV year I Semester – ECD

In	CS	ICS331	Algorithms & Operating Systems	3-1-0-4	Lini Thomas
In	EC	ECE493	ECE-Honours Project III	0-0-8-4	
Pr	EC		Research Stream Course	3-1-0-4	
Pr	EC		EC elective	3-1-0-4	
Pr	EC		EC elective	3-1-0-4	
OT	[+]		Science/Maths/Humanities/Engg	3-1-0-4	
			Total 15-5-8-24		

List of ECE Electives (Bouquet) are given under Electives

B.Tech IV year I Semester – CND

Pr	CS		Bouquet Core	3-1-0-4	
OT	[+]		Free Elective	3-1-0-4	
Pr	CNS		CNS Elective	3-1-0-4	
Pr	CNS	SCI472	CNS-Honours Project III	0-0-8-4	
Pr	CS		CS Elective	3-1-0-4	
Pr	CNS	SCI400	CCNSB Seminar	0 Cr	
			Total 12-4-8-20		

B.Tech IV year I 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	CSE492	CSE-Honours Project II	0-0-8-4	
			Elective	3-1-0-4	
			Total 18-5-8-24		

PG Programmes

CD	AD	CNO	CName	Credits	Faculty Name(s)
M.Tech I year I Semester - CSE					
			Advanced Data Structures & Algorithms	3-0-2-6	Vineet Gandhi + Avinash Sharma
			Maths for Computer Science 1- Probability and Statistics (H1)	3-1-0-2	Girish Varma
			Maths for Computer Science 2 - Linear Algebra (H2)	3-1-0-2	Indranil Chakrabarthy
			Software Systems Design & Development	3-0-2-4	**TBD**
			Advanced Operating Systems	3-0-1-4	Manish Shrivastava
			Total 12-1-5-18		
M.Tech II year I Semester – CSE					
			Bouquet Core	3-1-0-4	
			Area Elective	3-1-0-4	
			Semester project/Bouquet core/Area elective	3-1-0-4	
			Bouquet core / Area elective	3-1-0-4	
			Total 12-4-0-16		
M.Tech I year I Semester – CSIS					
			Advanced Data Structures & Algorithms	3-0-2-6	Vineet Gandhi + Avinash Sharma
			Maths for Computer Science 1- Probability and Statistics (H1)	3-1-0-2	Girish Varma
			Maths for Computer Science 2 - Linear Algebra (H2)	3-1-0-2	Indranil Chakrabarthy
			Software Systems Design & Development	3-0-2-4	**TBD**
			Advanced Operating Systems	3-0-1-4	Manish Shrivastava
			Total 12-1-5-18		
M.Tech II year I Semester – CSIS					
		CSE703	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.Tech I Year I Semester – 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 (H2)	3-1-0-2	Pradeep R
			Seminar (H1)	3-1-0-2	Pradeep R
			Total 12-4-2-16		
M.Tech II Year I Semester – CASE					
			GT/BS/SI/CS Elective	3-1-0-4	
			SE Elective	3-1-0-4	

			SE Elective	3-1-0-4	
			Open Elective or CASE Project	4/8 Cr	
			Total **9-3-8-16**		
M.Tech II Year I Semester – Bioinformatics					
		CSE505	Scripting & Computer Environments	3-0-2-4	**TBD**
		SCI643	Biomolecular Structure Interaction & Dynamics. **Prerequisites: ABA or GSC or equivalent**	3-1-0-4	B.Gopalakrishna
		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 by Research II Year I Semester - Computational Linguistics					
			MS Thesis	12 Cr	
MPhil / PhD II Year I Semester - Computational Linguistics					
			MPhil Thesis	12 Cr	

Electives

		CNO	CName	Credits	Faculty Name(s)
Electives for CND Students					
		SCI347	Selected topics in Instrumental Analysis	3-1-0-4	Tapan Kumar Sau
			Molecular symmetry and quantum mechanics	3-1-0-4	Harjinder Singh
Electives for CLD Students					
		CSE474	Information Retrieval & Extraction	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			
		CSE478	Digital Image Processing	3-1-0-4	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
	Communications 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 Embedded 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
	Robotics Stream				
		Level 1			
		CSE483	Mobile Robotics	3-1-0-4	Madhava Krishna
		CSE478	Digital Image Processing	3-1-0-4	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
Electives for PG CASE students					
		CSE591	Spatial Informatics	3-1-0-4	Rajan KS
			Plastic Theory of Structures	3-1-0-4	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	3-1-0-4	Pradeep Kumar R
		CES635	Structural Wind Engineering	3-1-0-4	Shaik Rehana
Bouquet Courses (For New Curriculum students)					
Theory					
			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
Systems					
		CSE435	Advanced Computer Networks	3-1-0-4	Sujit Gujar + Shatrunjay Rawat
		CSE431	Distributed Systems	3-1-0-4	Kishore Kothapalli
			Data Systems	3-1-0-4	Kamal Karlapalem
Artificial Intelligence					
		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 + 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
CSE/Open Electives					
		CSE503	Concurrent Data Structures	3-1-0-4	Govindarajulu R
		CSE540	Research in Information Security	3-0-1-4	Ashok Kumar Das

			Advanced Data Systems	3-1-0-4	Krishna Reddy P
		CSE451	Social Science Perspective on HCI	3-1-0-4	Nimmi Rangaswamy
		CSE512	Distributing Trust and Block Chains	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**	3-1-0-4	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
			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

Engineering Electives (Random Selection) Max. no of students for each 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	3-1-0-4	Shaik Rehana

Math Electives (Random selection) Maximum no. of students 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

Science Electives (Random selection) Max. no of students for each course is given in the brackets

		SCI347	Selected topics in Instrumental Analysis	3-1-0-4	Tapan Kumar Sau
			Molecular symmetry and quantum mechanics	3-1-0-4	Harjinder Singh
		SCI541	Advanced Biomolecular Architecture **(50)**	3-1-0-4	Deva Priyakumar
		SCI643	Biomolecular Structure Interaction & Dynamics **(20)** **Prerequisites: ABA, GSC or equivalent**	3-1-0-4	B. Gopalakrishna

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

		HSS482	Digital Humanities Project **(UG4 only)**	3-1-0-4	CEH Faculty
		HSS338	Understanding Raga: Semi Classical Forms of Indian Music	3-1-0-4	Saroja TK
		HSS343a	Introduction to History	3-1-0-4	Ashwin Jayanti
		HSS345a	Introduction to Shakespeare	3-1-0-4	Aruna Chaluvadi
		HSS368	Introduction to Sociology	3-1-0-4	Raheel Dhattiwala
		HSS316	Introduction to Philosophy	3-1-0-4	Don Wallace D'Cruz
		HSS351a	Intro to Psychology	3-1-0-4	Priyanka Srivastava
		HSS447	Gender and Society	3-1-0-4	Sushmita Banerjee

		HSS448	Critical Viewing and Reading	3-1-0-4	Sushmita Banerjee
		HSS444	Theories and Pratices of Nationalism	3-1-0-4	Aniket Alam
		CSE451	Social Science Perspective on HCI	3-1-0-4	Nimmi Rangaswamy

Date:14.7.2020

Sd/-
Dean (Academics)