



CAMBRIDGE INSTITUTE OF TECHNOLOGY

K.R. PURAM, BANGALORE – 560 036, Ph: 080-2561 8798 / 2561 8799

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Department of Information Science & Engineering



Innovations by the Faculty in Teaching and Learning

2022-2023					
SL. No.	Subject Name	Sem and Section	Innovations (ex: Case study, Quiz, Mini Project, Activity, etc.,)	Hours	Coordinators
1	Automata Theory and Computability	5B	Quiz, Problem Solving https://forms.gle/dBCjcyqZ6wsFWGig6 https://forms.gle/9LsRzPht59UF2rVPA	8 hrs	Prof. Jayashree N
2	Automata Theory and Computability	5A	Quiz, Problem Solving https://forms.gle/dBCjcyqZ6wsFWGig6 https://forms.gle/9LsRzPht59UF2rVPA	8 hrs	Dr. Krishna Kumar P R
3	Internet of Things	8B	Case Study, Programming Activity, Hands-on workshop	16 hrs	Prof. Jayashree N
4	Internet of Things	8A	Case Study, Programming Activity, Hands-on workshop	16 hrs	Dr. Krishna Kumar P R
5	Unix Programming		Seminar		Dr Bharani B R
6	Storage Area Networks	8A	Case study, Flipped Class room, Google classroom https://classroom.google.com/c/NTk3ODAyODMyMzQw?cjc=56zzl5n https://classroom.google.com/c/NTk3ODAyODMyMzQw?cjc=56zzl5n	16hrs	Prof. Anusha B
7	Storage Area Networks	8B	Case study, Flipped Class room, Google class room https://classroom.google.com/c/NTk3ODAyODMyMzQw?cjc=56zzl5n https://classroom.google.com/c/NTk3ODAyODMyMzQw?cjc=56zzl5n	16hrs	Prof. Anusha B



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8	APPLICATION DEVELOPMENT USING PYTHON	5A & 5B	Mini Projects, Flipped Classroom	15hrs	Prof. Triveni N
9	FILE STRUCTURES	6A & 6B	Flipped Classroom	15hrs	Prof. Triveni N
10	FILE STRUCTURES LABORATORY WITH MINI PROJECT	6A & 6B	Mini Projects, Activity- Java Programs	25hrs	Prof. Triveni N
11	Big data and Analytics	7A	Quiz, Flipped Class room, Google Class room https://classroom.google.com/c/NDkwNTU5ODE5NDQx?cjc=noieysa https://classroom.google.com/c/NTU0Nzk1ODMyNTY4?cjc=wj4nyop	11 hrs	Prof. Anusha B
12	Big data and Analytics	7B	Quiz, Flipped Classroom, Google classroom https://classroom.google.com/c/NDkwNTU5ODE5NDQx?cjc=noieysa https://classroom.google.com/c/NTU0Nzk1ODMyNTY4?cjc=wj4nyop https://forms.gle/9HBtAA7xZ5RZ2zcV6	11 hrs	Prof. Anusha B
13	Database Management System	5A	Quiz, Chart creation, Mini Project	16 hrs	Prof. Sudarsanan D
14	Database Management System	5B	Quiz, Chart creation, Mini Project	16 hrs	Prof. Sudarsanan D
15	Analog and Digital Electronics	3A	Quiz, Programming, Assignment on complex problems	8 hrs	Prof. Shivakumar M



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16	Analog and Digital Electronics	3C	Quiz, Programming, Assignment on complex problems	8 hrs	Prof. Shivakumar M
17	Web Technology and Its Applications	6A	Quiz, Experiential Learning , Mini Project	16 hrs	Prof. Sudarsanan D
18	Web Technology and Its Applications	6B	Quiz, Experiential Learning , Mini Project	16 hrs	Prof. Sudarsanan D
19	Data Structures & Applications	3A	You tube channel videos: https://youtu.be/ouLKCBJK9Vk https://youtu.be/4CT1-i4ROCQ Peer to Peer Engagement & Learning,	5 hrs	Prof. Megha Sharma
20	User Interface Design	7	Workshop, Quiz	16 hrs	Prof. Priyanka R
21	Operating Systems	4	Role play, Quiz, Google classroom, Youtube videos https://youtu.be/dbnctTKq0lc	16 hrs	Prof. Priyanka R
22	Cryptography	7	Quiz ,Seminar	10 hr	Prof. Sapna
23	Computer organization & Architecture	3B	Quiz	1 hr	Prof. Vijayalaxmi & Prof. Santosh M
2021-2022					
1	Automata Theory and Computability	5B	Quiz, Problem Solving https://forms.gle/dBCjcyqZ6wsFWGig6 https://forms.gle/9LsRzPht59UF2rVPA	8 hrs	Prof. Jayashree N



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2	Automata Theory and Computability	5A	Quiz, Problem Solving https://forms.gle/dBCjcyqZ6wsFWGig6 https://forms.gle/9LsRzPht59UF2rVPA	8 hrs	Dr. Krishna Kumar P R
3	Artificial Intelligence and Machine Learning	7	Quiz, Case Study on AI, Youtube video tutorials https://youtu.be/W6jXpCq3QJs https://youtu.be/ptoHrKK3-Fo https://youtu.be/CSa6x4uP0Ms https://youtu.be/nGYlo1GcyO0 https://youtu.be/40D3G_cCtWc https://youtu.be/tR-tbv6r59g https://youtu.be/oBd-py2sLNk https://youtu.be/iRHJv1Vbvp0 https://youtu.be/X7r-Qo03nO4	16 hrs	Prof. Jayashree N
4	APPLICATION DEVELOPMENT USING PYTHON	5A & 5B	Seminar/Flipped Classroom, Quiz	15 hrs	Prof. Triveni N
5	FILE STRUCTURES	6A & 6B	Flipped Classroom	15 hrs	Prof. Triveni N
6	FILE STRUCTURES	6A & 6B	Mini Projects, Activity- Java Programs	25hrs	Prof. Triveni N



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	LABORATORY WITH MINI PROJECT				
7	Object Oriented Concepts	4A	Quiz, Programming	9 hrs	Prof. Jayashree N
8	Object Oriented Concepts	4B	Quiz, Programming Activity	9 hrs	Prof. Jayashree N
9	Management & Entrepreneurship	5 A	Seminar	15 hrs	Prof Bharani B R
10	Management & Entrepreneurship	5 B	Seminar	15 hrs	Prof Bharani B R
11	Big Data Analytics	7	Case Studies	15 hrs	Prof Bharani B R
12	Analog and Digital Electronics	3A	Google Classroom https://classroom.google.com/c/NDQ5MDAxNzM4NjUw	10 hrs	Prof. Preethi S
13	Analog and Digital Electronics	3B	Google Classroom https://classroom.google.com/c/MjI3NzMxMzk2NzM5	10 hrs	Prof. Preethi S
14	Microcontroller and Embedded Systems	4A	Google Classroom https://classroom.google.com/c/NDk2NzkzNTQyMzg1	10 hrs	Prof. Preethi S
15	Big Data and Analytics	7	Flipped Classroom	10 hrs	Prof. Anusha B
16	Design and analysis of Algorithms	4A	Youtube https://youtu.be/zR7AK8F3VOc	1hr	Prof. Anusha B



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17	Design and analysis of Algorithms	4B	Youtube https://youtu.be/zR7AK8F3VOc	1hr	Prof. Anusha B
18	Database Management System	5A	Quiz, Mini Project	16Hrs	Prof. Vinayank
19	Database Management System	5B	Quiz, Mini Project	16Hrs	Prof. Vinayank
20	Software Engineering	3	Model Making, Quiz, Google classroom	16Hrs	Prof.Priyanka R
21	Operating Systems	4	Role play,Quiz,Google classroom,Youtube videos https://youtu.be/dbnctTKq0lc	16Hrs	Prof.Priyanka R
22	Cloud Computing	6	Quiz,Google classroom	16Hrs	Prof.Priyanka R
23	Data Structures and Applications	3(A & B)	Implementation of additional algorithms from text book	5Hrs(with break)	Prof.Vijayalaxmi
2020-2021					
1	Python Application Programming	6	Youtube video https://www.youtube.com/playlist?list=PLA-Ktk7Os5Ujtmh8pym-rm2ahfLIDR-th	10 hrs	Prof Bharani B R
2	Big Data Analytics	7	Youtube video https://www.youtube.com/playlist?list=PLA-Ktk7Os5Uh8AB63A_fYtzEKi52afbMp	2 hrs	Prof Bharani B R



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3	File Structures	6	Google Classroom, Quiz, Polling, Additional Java programs	13hrs	Prof. Triveni N
4	File Structures Laboratory/Mini Project	6	Mini Projects,Activity- Java Programs	20 hrs	Prof. Triveni N
5	Web Technology	6	Crossword Puzzle	1 hr	Prof Bharani B R
6	Cryptography and Network Security	6	You Tube Video https://www.youtube.com/playlist?list=PLA-Ktk7Os5Uh22yapQZX9oYcDzUfnY3lv	2 hrs	Prof. Preethi S
7	Management & Entrepreneurship	5	Crossword Puzzle	1 hr	Prof Bharani B R
8	Management & Entrepreneurship	5	Quiz	30 minutes	Prof Bharani B R
9	Management & Entrepreneurship	5	Logo Quiz	30 minutes	Prof Bharani B R
10	Management & Entrepreneurship	5	Identify the Entrepreneur Quiz	30 minutes	Prof Bharani B R
11	Web Technology	6	Quiz	30 minutes	Prof Bharani B R
12	Data Communication	4	Youtube Video https://www.youtube.com/playlist?list=PLA-Ktk7Os5UjhXB_j-V1urCYUuTb0I9Ps	32 hrs	Dr Satyanarayan Reddy
13	Microcontroller and Embedded Systems	4	Youtube video https://www.youtube.com/playlist?list=PLA-Ktk7Os5UjFuYR8PzSP9IhoKMxS-425	15 hrs	Prof. Preethi S



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14	Microcontroller and Embedded Systems Lab	4	Youtube video https://www.youtube.com/playlist?list=PLA-Ktk7Os5UhuHOls2LOs0RiicZQEGFUM	15 hrs	Prof. Preethi S
15	Analog and Digital Electronics Lab	3	Video created for teaching		Prof. Preethi S
16	Database Management System	5A	Quiz, Mini Project	16Hrs	Prof. Vinayak
17	Database Management System	5B	Quiz, Mini Project	16Hrs	Prof. Vinayak
18	Software Engineering	3	Model Making, Quiz, Google classroom	16Hrs	Prof. Priyanka R
19	Operating Systems	4	Role play, Quiz, Google classroom, Youtube videos https://youtu.be/dbnctTKq0lc	16Hrs	Prof. Priyanka R
20	Data Mining and Data Warehousing	6	Quiz, Google classroom, Youtube video https://youtu.be/dbnctTKq0lc	16Hrs	Prof. Priyanka R
21	Computer Networks and Security	5	Puzzle - Crossword	5 hrs	Prof. Preethi S
2019-2020					
1	Microcontroller and Embedded Systems	4	Google Classroom https://classroom.google.com/c/NzAwMTY3NjcxMDBa	10 hrs	Prof. Preethi S
2	Cryptography and Network Security	6	Google Classroom https://classroom.google.com/c/NjQ1NTQzOTQ3MDRa	10 hrs	Prof. Preethi S



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3	Cryptography and Network Security	6	You tube Video https://www.youtube.com/playlist?list=PLA-Ktk7Os5Uh22yapQZX9oYcDzUfnY3lv	2 hrs	Prof. Preethi S
4	Design and Analysis of Algorithms Lab	4	You tube Video https://youtu.be/SpiBx5NKkC8	2 hrs	Prof. Santosh M
5	Design and Analysis of Algorithms	4	You tube Video https://youtu.be/SpiBx5NKkC8	1 hr	Prof. Santosh M
6	Data Communication	4	Youtube Video https://www.youtube.com/playlist?list=PLA-Ktk7Os5UjhXB_j-V1urCYUuTb0I9Ps	32 hrs	Dr Satyanarayan Reddy
7	Software Testing	6	Youtube Video	1 hr	Prof. Santosh M
8	Python Application Programming	6	Youtube video https://www.youtube.com/playlist?list=PLA-Ktk7Os5Ujtmh8pym-rm2ahfLIDR-th	10 hrs	Prof Bharani B R
9	Big Data Analytics	7	Youtube video https://www.youtube.com/playlist?list=PLA-Ktk7Os5Uh8AB63A_fYtzEKi52afbMp	2 hrs	Prof Bharani B R
10	Microcontroller and Embedded Systems	4	Youtube video https://www.youtube.com/playlist?list=PLA-Ktk7Os5UjFuYR8PzSP9IhoKMxS-425	15 hrs	Prof. Preethi S
11	Microcontroller and Embedded Systems Lab	4	Youtube video https://www.youtube.com/playlist?list=PLA-Ktk7Os5UhuHOls2LOs0RiicZQEGFUM	15 hrs	Prof. Preethi S



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12	Database Management System	5A	Quiz, Mini Project	16Hrs	Prof. Vinayak
13	Database Management System	5B	Quiz, Mini Project	16Hrs	Prof. Vinayak
14	Software Engineering	3	Model Making, Quiz, Google classroom	16Hrs	Prof. Priyanka R
15	Operating Systems	4	Role play, Quiz, Google classroom, Youtube videos	16Hrs	Prof. Priyanka R
16	Machine Learning	7	cohort based teaching	6 hrs	Prof. Sapna
17	Cryptography and Network Security	6	Quiz	1 hr	Prof. Preethi S