Innovative teaching learning techniques

Online Lecture Videos

Digital Electronics by Dr. Faseela C K

https://drive.google.com/drive/folders/1rhzN-M-hWYST1oFlwX5YJ3-gqOAQyccH?usp=drive_link

Modern Control theory by Dr. Faseela C K

https://drive.google.com/drive/folders/1vyBBQwSYYFDpTMDb6om6Be77Uu3fN5RW?usp=drive_link

Analog Electronics by Dr. Faseela C K
https://drive.google.com/drive/folders/1w0E2T9PLfh4dbUjb8uD4Cb5JhvJ0vb-n?usp=drive_link

Power System Analysis dy Fareeda A Kareem

https://drive.google.com/drive/folders/1uBXs6SSmDH4Lweh4BG3W4ODQSqRHcB1I?usp=drive_link

Innovative teaching learning techniques

- Activity based teaching learning practices

Method	Activity	Action /Description
Project-Based Learning	**Project development, Report writing**	The second-year students are given course projects as per lab curriculum. The objective of the course project in the third semester is to develop a project highly focused on fundamental principles of engineering/science. Students as a group of four members will do a course project in consultation with allotted guides. The learning process is given more weightage during the assessment. In the fourth semester, students will do a project which will help them to learn various technical skills and modern tool usage in consultation with allotted guides.At the end of each semester, the project works done by the students are exhibited to the entire students and faculty members on the campus, and also few of them are showcased and demonstrated in the project lab.The group of students is appropriately mentored by their respective supervising guides in preparing a well-structured report. The prepared report is archived in both soft and hard copy and is made available in the department library for peer reference.
Seminar Based Learning		The second-year and third-year students are given classroom seminars, apart from their regular curriculum. Students are grouped into six groups based on the number of theory courses in that semester, and a course faculty mentor each group.A student in a group chooses the seminar topic related to the application area of the course in consultation with the respective faculty.The objective of the classroom seminar is to develop higher cognitive and affective abilities.The classroom seminar method gives good motivation and learning experience. Also, dissemination and retrieval of information are scientifically managed. Further, develop self-reliance and self-confidence and enhance the capability of the students' learning.

- ICT ENABLED TEACHING LEARNING

Method	Activity	Action /Description
Powerpoint presentations	**ICT enabled content delivery**	PPT based learning is common in the teaching-learning process. However, this method is used wisely to explore the innovativeness in the teaching-learning process.A multimodal approach is used through the projection of colour, images, and video for the visual mode; sound for the auditory mode; text and writing prompt for the reading/writing mode; and interactive slides that ask students to do something, e.g., a group or class activity in which students practice concepts, for the kinesthetic mode. Providing information in multiple modalities helps improve comprehension and recall for all students.
Video lectures	**YouTube Channel**	The video lectures of specific topics in selected courses were prepared by the course faculty and had the same content as the classroom lectures, but are delivered at a slower, more step-by-step pace. Video lectures give students control of the lecture and are portable. Students can replay segments and stop the lecture as they study to understand the content. They can skip topic segments they understand. In effect, they can adjust the instructor's delivery speed and topic selection to match their learning pace, especially beneficial to the weak students.
Virtual Platforms	**Google Classroom**	The course faculty created a Google classroom. Students join as members of the Google classroom. Lecturer materials, Assignments, Quiz questions are posted in the Google classroom.
	Online classes:	An online class is a practice of delivering course content using internet connectivity. The faculty members are organizing online using online platforms such as Google meet, Zoom, etc. The online classes are recorded for future reference by the students.
NPTEL		All the faculty members are encouraged to take up National Programme on Technology Enhanced Learning (NPTEL) courses and other Massive Open Online Courses (MOOCs).

NPTEL Courses attended by Faculty members

Following are some of the courses completed by our department |

		faculty:
		Academic Year 2019-20
		- Femy P H :Enhancing Soft Skills and Personality - Sabeena Salam : Enhancing Soft Skills and Personality - Nimmy Charles : Enhancing Soft Skills and Personality Students - Nihala A Saleem : Leadership - Ligina N P: Leadership
Coursera		Several faculty members and students in the department have completed online courses based upon their area of interest. Following are some of the courses completed by our department faculty:

Academic Year 2020-21

SL.NO.	NAME OF FACULTY	NAME OF COURSE	DURATION (FROM - TO)	ORGANIZER
1	Fareeda A Kareem	Leadership and Emotional Intelligence	9/7/2020	ISB
		AI for Everyone	24/10/20	deeplearning.ai
		Safety in the Utility Industry	28/10/2020	The State University of New York
		Electric Utilities Fundamentals and Future	30/10/2020	University of Colorado
2	Raji T R	Getting Started with Google Sheets	9/7/2020	Google Cloud
3	Sabeena Salam	Introduction to Solar Cells	23/7/2020	Technical University of Denmark
		Getting Started with Google Sheets	10/7/2020	Google Cloud
4	Nimmy Charles	Safety in the Utility Industry	24/9/2020	The State University of Newyork

		Introduction to Psychology	13/11/2020	YALE
		Leadership and Emotional Intelligence	16/7/2020	ISB
		Fundamentals of Graphic Design	4/7/2020	CALARTS
		Creative Information Presentation With Google Slides	23/9/2020	Coursera Project Network
		Electric Utilities Fundamentals and Future	8/11/2020	University of Colorado
5	Femy P H	Human Resource Management: HR for People Managers - Specialization certificate course	11/9/2020	University of Minnesota
		Solar Energy Basics	11/9/2020	The State University of Newyork
		Electric Utilities Fundamentals and Future	9/7/2020	University of Colorado
		Everyday Parenting: The ABCs of Child Rearing	1/8/2020	Yale University
		Leadership and Emotional Intelligence	2/7/2020	Indian School of Business
		Psycology of Popularity	7/10/2020	The University of North Carolina at Chapel Hill
		Positive Psycology	4/10/2020	The University of North Carolina at Chapel Hill
		Introduction to Psychology	28/9/2020	Yale University

Academic Year 2019-20

1	Dr. Reena Sebastian	Preparing to manage Human Resources	6/5/2020	University of Minnesota
		Recruiting, Hiring and Onboarding Employess	8/5/2020	University of Minnesota
		Managing Employee Performance	9/5/2020	University of Minnesota
		Managing Employee Compensation	10/5/2020	University of Minnesota
		Self Awareness and the Effective Leader	14/6/2020	RICE
2	Nimmy Charles	Getting Started with Google Sheets	30/6/2020	Google Cloud
3	Fareeda A Kareem	Electric Power System	21/6/20	The State University of New york

STUDENTS

ACADEMIC YEAR : 2021-22					
SL.NO.	NAME OF STUDENT	SEMESTER & BRANCH	NAME OF COURSE	DURATION (FROM - TO)	ORGANIZER
1	Nadha Nasrin K N	S5 EEE	Data Journalism Fundamentals	1/7/2021	JMSCHKU
2	Nasrin K.A	S5 EEE	Basic game in unity	1/7/2021	Brackeys
			Business Entrepreneurship	2//7/2021	Crash course
			Data Journalism Fundamentals	5/7/2021	JMSCHKU

			Apps with flutter for beginners	4/7/2021	The Net Ninja
			Web development for beginners	10/6/2021	Learn code Academic
3	Sreejith P L	S5 EEE	Basic game in unity	1/8/2021	Brackeys
			Ethical Hacking for beginners	7/10/2021	Edureka
			Literature	10/10/2021	Crash course
			Apps with flutter for beginners	4/7/2021	The Net Ninja
			Data Journalism Fundamentals	5/7/2021	JMSCHKU
			Web development for beginners	10/7/2021	Learn code Academic
4	Sudev Kumar S	S5 EEE	Ethical Hacking for beginners	7/10/2021	Edureka
			Basic game in unity	1/8/2021	Brackeys
			Data Journalism Fundamentals	5/7/2021	JMSCHKU
			Literature	10/10/2021	Crash course

			Web development for beginners	10/7/2021	Learn code Academic

ACADEMIC YEAR : 2020-21					
SL.NO.	NAME OF STUDENT	SEMESTER & BRANCH	NAME OF COURSE	DURATION (FROM - TO)	ORGANIZER
1	Mohammed Aslam P A	S8 EEE	Introduction to FPGA Design for Embedded Systems	3/8/2020	University of Colorado
			Electric Power Systems	3/8/2020	University at Buffalo & The State University of New York
2	Adhil Rehman	S8 EEE	Solar Energy Basics	17/8/2020	The State University of New York
3	Abdul Hafis Chakkaraparambil Haris	S6 EEE	Introduction to Self-Driving Cars	3/8/2020	University of Toronto
			Computer Vision - Object Tracking with OpenCV and Python	2/8/2020	Coursera Project Network
			Electric Power Systems	3/6/2020	University at Buffalo & The State University of New York
4	Baasil A K	S2 EEE	Mind control : Managing Your Mental Health During COVID-19	23/7/2020	University of Toronto
5	Hiba Fathima	S2 EEE	A Crash Course in Data Science	15/7/2020	Johns Hopkins University
			Simulation Analysis for Mechanical Engineers with Autodesk Fusion 360	16/7/2020	Autodesk

				Safety in Utility industry	13/7/2020	University at Buffalo & The State University of New York
				Energy Production, Distribution & Safety	27/7/2020	University at Buffalo
				Energy : The Enterprise	17/7/2020	University at Buffalo & The State University of New York
				Programming for Everybody (Getting started with Python)	5/8/2020	University of Michigan
				Introduction to the Internet of Things and Embedded Systems	6/8/2020	University of California, Irvine
				Programming Foundation with JavaScript, HTML and CSS	8/8/2020	Duke University
				Introduction to Molecular Spectroscopy	8/8/2020	The University of Manchester
				The Blockchain	11/8/2020	University of California, Irvine
				Interactivity with JavaScript	11/8/2020	University of Michigan
				Write Professional Emails in English	14/8/2020	Georgia Institute of Technology
				AstroTech : The Science and Technology behind Astronomical Discovery	19/8/2020	The University of Edinburgh
				Graphic design	18/7/2020	University of Colorado

			Introduction to Project Management	22/7/2020	Coursera Project Network
			Natural Gas	22/7/2020	University at Buffalo & The State University of New York
			Electric Power Systems	23/7/2020	University at Buffalo & The State University of New York
			Mind control : Managing Your Mental Health During COVID-19	17/7/2020	University of Toronto
6	Adhil Abdul Jabbar	S2 EEE	Introduction to Virtual Reality	27/7/2020	University of London
7	Ahammed Alsaj D.A	S2 EEE	Mind control : Managing Your Mental Health During COVID-19	25/7/2020	University of Toronto
8	Amjad Ibrahim	S2 EEE	Mind control : Managing Your Mental Health During COVID-19	22/7/2020	University of Toronto
9	Muhammed Jasim K K	S2 EEE	Mind control : Managing Your Mental Health During COVID-19	26/7/2020	University of Toronto
10	Nafesathul Misriya	S2 EEE	Natural Gas	13/7/2020	University at Buffalo & The State University of New York
			Mind control : Managing Your Mental Health During COVID-19	20/7/2020	University of Toronto
			Electric Power Systems	24/7/2020	University at Buffalo & The State University of New York

11	Mohamed Rafsan M	S2 EEE	COVID-19: What You Need to Know (CME Eligible)	24/7/2020	Osmosis
			Mind control : Managing Your Mental Health During COVID-19	23/7/2020	University of Toronto
12	P Y Midhunsha	S2 EEE	COVID-19: What You Need to Know (CME Eligible)	03/08/2020	Osmosis
			Mind control : Managing Your Mental Health During COVID-19	24/7/2020	University of Toronto
13	Shameema Nasrin	S2 EEE	Electric Power Systems	17/7/2020	University at Buffalo & The State University of New York
			Natural Gas	28/7/2020	University at Buffalo & The State University of New York
			Mind control : Managing Your Mental Health During COVID-19	16/7/2020	University of Toronto
			Safety in Utility industry	28/7/2020	University at Buffalo & The State University of New York
			The Blockchain	12/8/2020	University of California, Irvine
			Graphic design	19/7/2020	University of Colorado
			Introduction to Project Management	19/7/2020	Coursera Project Network