

EEE-INSIDER



GL BAJAJ

Institute of Technology & Management

FIND YOUR SPARK

JANUARY 2020 - JULY 2020

MESSAGE



Education gives people the ability to consider the world around them and their place in it. I think it is a matter of great pleasure and honour for me to address you all through this newsletter released by the Electrical and Electronics Department, G L Bajaj Institute of Technology and Management, Greater Noida. Indeed, it is very heartening to witness that the institute has sculpted a name for itself in academic scenario of the region. G L Bajaj is not only an organization that provides forward-looking education, but an environment where everyone involved as part of a team that has a common mission to create the great leaders of tomorrow. I believe that this newsletter will serve as a window through which the complete profile of the academic and co-curricular activities, achievements and progress

made by the department during the stipulated period can be viewed.

Dear friends, I strongly believe that, there can be no better way to drive and improve our nation's prosperity and social economic well-being than through its education system. I would take this opportunity to urge you all to focus on all round development. You should always have your education laced with morality and ethics. This task has to be taken over by the academicians to provide value and ethic based education. I earnestly hope and trust that, my esteemed academicians and budding technocrats will work with sincerity, honesty and dedication and thereby contribute to make this world a better place to live in.

Best Wishes,

-Mr. Pankaj Agarwal (Vice Chairman, GLBITM)



I am extremely happy to know that EEE Department of GLBITM, Greater Noida is bringing out its departmental newsletter. In addition to the numerous achievements of the department, this is yet another mile stone in its curricular and co-curricular activities. I hope the newsletter will bring creative talents of the department. I wish them all the success!! GL Bajaj stands out in its approach to assist and equip the students for their overall development, giving them a substantial foundation for a successful future. Our aim is to build an effervescent community of engineers, where faculty and students are cronies in a mutually inspirational education process, engrossed in learning. This learning process would lead to the inventions and then to discoveries. GL Bajaj stands out in its

approach to assist and equip the students for their overall development, giving them a substantial foundation for a successful future. We look for, and develop creative problem solving strengths in our students; at the same time, we encourage students to grow as effective team players, with a strong set of ethics, communications skills and zeal to outshine.

I hope that Electrical & Electronics engineering department will scale newer heights in this new academic session.

-Dr. Rajeev Agrawal (Director, GLBITM)



"Somewhere, something incredible is waiting to be known." -Carl Sagan

I came across this amazing quote quite suddenly when I was looking for some information in the internet and realized how relevant it is for all of us: students, staff and faculty members. There is never any point in the life of a person when he can sit back and say. "There is nothing more to learn, I can relax with the comforting thought that the universe around me is an open book. I know it all."

Keeping this visual modality in mind, The Department of Electrical and electronics engineering was formed with the primary objective of providing world class education in the field of electrical engineering, while addressing the problems of today and tomorrow. Right from its inception, the department has been offering excellent infrastructural facilities with a variety of computing platforms to aspiring professional students to meet the burgeoning demands of the industry. The strength of the department lies in the highly motivated students who understand the dynamics of the industry and hone their skills accordingly.

The Department has traditional and modern laboratories such as Machine Lab, Software Based Power System Lab, Automation lab, Networks and Simulation Lab, Microprocessor Lab and Power Electronics lab. The Department is engaged in research activities, mainly in Automation. Department strives to provide a conducive environment for the students to develop analytical and practical skills and apply them to real world problems. To motivate the students the department organizes regular seminars, Alumni talks and arranges workshop and student symposiums periodically.

On behalf of our Department, I heartily welcome you to the this issue of our department newsletter. Here you will find the latest news about the our department, its exceptional programs, student and faculty achievements and placements.

-Dr. Mohit Bansal (HOD, EEE Department, GLBITM)

About The Department

The Department of Electrical And Electronics Engineering at GL Bajaj Institute of Technology & Management was established in the year 2005 with a vision to impart quality education and provide competent professionals to fulfill the needs of industry and society in global perspective for sustainable development of industry and society. The Department aims to foster students to attain professional excellence by imparting them necessary soft skills and technical knowledge. From household to industrial plants, communication, satellite navigation systems, electronic equipment and computers etc. require electricity so Electrical and Electronics Engineering is always an evergreen discipline in terms of scope and career perspective.

Vision

To be department of repute in automation to cater the needs of society.

Mission

- ❖ To achieve academic excellence through dedicated teaching and learning.
- ❖ To provide conducive environment for self-learning.
- ❖ To develop strong industry-institute interaction.
- ❖ To imbibe professional ethics, values and positive attitude in the students.

Inside The Issue

- Industry Expert Lecture on Industry 4.0 and IoT Life Cycle
- International Webinar on Decision Tree Learning
- International Webinar on Global Impact of COVID-19 on Higher Education
- Faculty Interaction With Outside World
- Student Achievements
- Placement Highlights

PATRONS

Dr. RAM KISHORE AGARWAL (Chairman)
Mr. PANKAJ AGARWAL (Vice-Chairman)
Dr. RAJEEV AGARWAL (Director)
Dr. MOHIT BANSAL (HOD)

EDITOR

Mrs. PRIYANKA DATTA

STUDENTS SUPPORT

- ✍ REDA ANSARI (3rd Year)
- ✍ RISHABH CHOUBEY (3rd Year)
- ✍ SANDEEP SHARAN (2nd Year)
- ✍ SAURABH SINGH YADAV (2nd Year)

Industry Expert Lecture On Industry 4.0 and IoT Life Cycle

Expert: Mr. Vikram Pratap Singh, DGM, Luminous Power Tech. (Schnieder Electric.) Gurgaon

Department of Electrical and Electronics Engineering, GL Bajaj Institute of Technology and Management Greater Noida has organized an industry expert lecture for the students as well as faculty members on the topic "Industry 4.0 and IOT Life Cycle" dated 25th Feb., 2020. Department faculty members and 79 students have participated in the program. Different topics have been covered during the lecture, i.e. IoT devices, IoT Life cycle, IoT Systems; System Requirements; System Architecture, Factory Digitalization, Product flow Monitoring, Inventory Management, Safety and Security, Quality Control, Packaging optimization, Logistics and Supply Chain Optimization, Industry 4.0



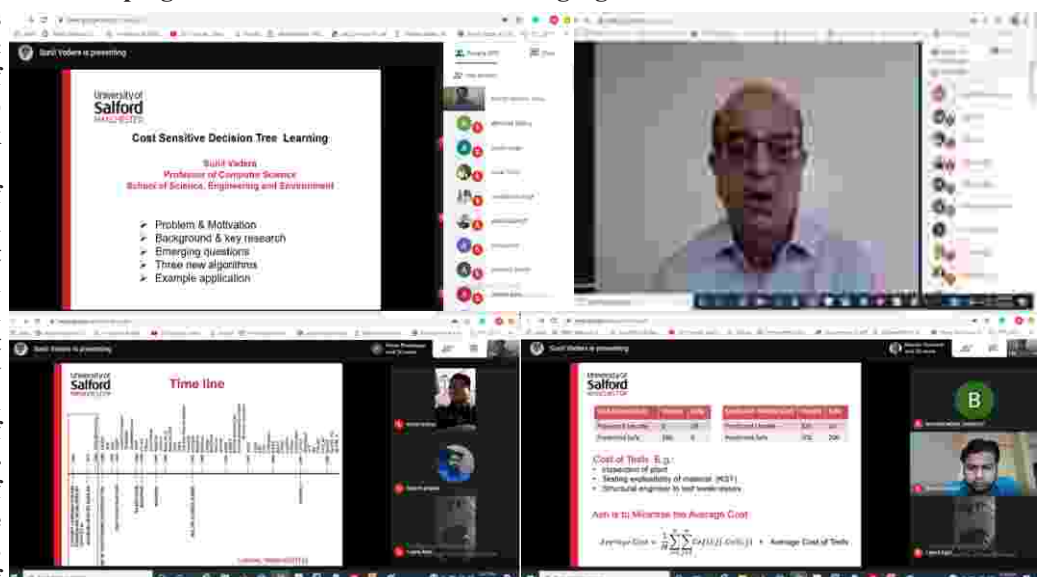
Faculty members and students attending expert lecture on Industry 4.0 and IoT Life Cycle

International Webinar on Decision Tree Learning

On May 4th, 2020, Department of Electrical and Electronics Engineering, GL Bajaj Institute of Technology and Management Greater Noida has organized International Webinar on Decision tree learning by Prof. Sunil Vadera, University of Salford, Manchester, U.K.

Decision tree learning is one of the major success stories of AI. Recent research in this field has been influenced by realizing that human decision making is not focused solely on accuracy, but also takes account of the potential implications of a decision. This realisation has led to significant interest in developing cost-sensitive decision tree learning algorithms.


The talk motivated about why this remains an important research topic and illuminated the characteristics of the algorithms that can help researchers position their own work and identify gaps for future research. The talk begins with examples of applications in micro-finance and explosion relief venting, that motivated the presenter's interest in this topic. This followed by an overview of early algorithms that make minor changes to the entropy based selection measure taught in most courses on AI, present use of genetic algorithms to evolve cost-sensitive trees, describe the use of bagging and boosting, and conclude with recent work that explores ideas such as non-linear trees and use of multi-arm bandits.



"Participants attending International Webinar on Decision Tree Learning"

International Webinar on Global Impact of COVID-19 on Higher Education

An International Webinar: "Global Impact of COVID-19 on Higher Education" was organized by the Electrical and Electronics Engineering Department of G L Bajaj Institute of Technology and Management, Gr. Noida (U.P.) India on 22nd May 2020. by prominent international speakers Professor Sid Nair, Executive Dean at the Victorian Institute of Technology, Australia and Dr Upasana Singh, Senior Lecturer, University of KwaZulu Natal, Westville Campus, South Africa.





Summary

- Online Teaching will be the new norm
- Unprepared Institutions had to transition almost overnight
- What developing countries may do?
 - satellites campuses
 - adopt traditional distance
 - training support
 - clearer policies and procedures

It has become clear that face to face is no longer a prerequisite to learning" *Respondent x*

UKZN INSPIRING GREATNESS

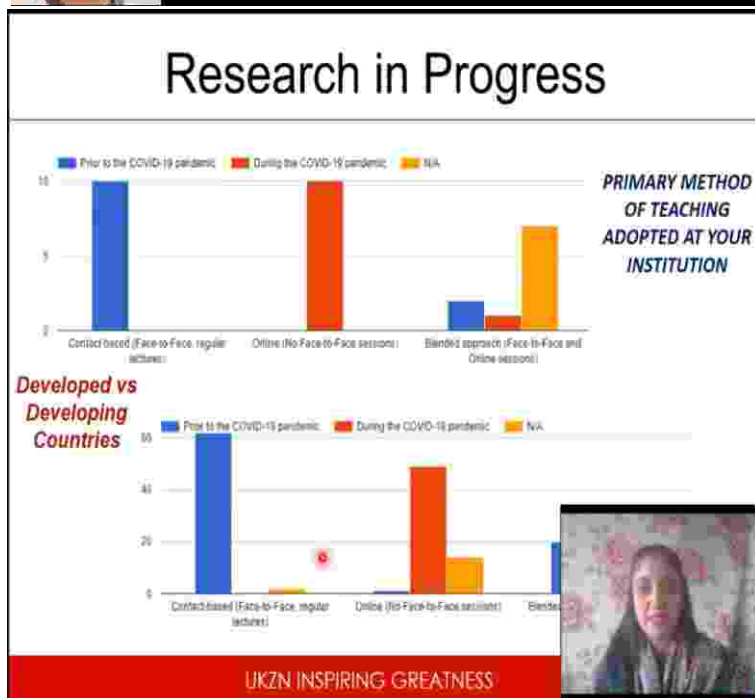
Empowerment Sessions Virtual

29 Workshops : Adoption of T&L tools within Moodle (5 weeks : Apr to May 2020)

- 1400 academic staff
- Zoom Webinars
- Multiple Disciplines
- All levels

UKZN INSPIRING GREATNESS



Participants attending International Webinar on Global Impact of COVID-19 on Higher Education

FACULTY INTERACTION WITH OUTSIDE WORLD

S.No.	Name	Achievement/Certification	Duration
1	Dr. Jai Singh	FDP on "E-Learning And Recent Trends In Electrical Engineering" organized by Amity University, Uttar Pradesh, Noida	3 days
		FDP on "Recent Innovations in Renewable Energy Technologies and Smart Grids" organized by Electrical Engineering Department, Bansal Institute of Engineering and Technology, Lucknow, U.P., India	5 days
		FDP on " Electric Vehicles: New Trends and Technologies" organized by EN-Department, ABES Engineering College, Uttar Pradesh, India	5 days
2	Dr. Nagendra Kumar	Faculty development program (FDP) on "Digital Era of Teaching" conducted by Diksoochi, Mysuru, India	3 days
		FDP on "Recent advances in Power electronics applications with MATLAB Simulations" organized by E&ICT Academy N.I.T. Patna, India	6 days
		FDP on "Recent Innovations in Renewable Energy Technologies and Smart Grids" organized by Electrical Engineering Department, Bansal Institute of Engineering and Technology, Lucknow, U.P., India	5 days
		FDP on " Role of Energy Management in Smart City" organized by Department of Electronics Engineering and Department of Mechanical Engineering, School of Engineering and Technology, Sharda University, Greater Noida, Uttar Pradesh, India	5 days
		FDP on " Electric Vehicles: New Trends and Technologies" organized by EN-Department, ABES Engineering College, Uttar Pradesh, India	5 days
		IIC certificate	25 days
3	Mr. Kailash Sharma	Participated in Online National Workshop on "OUTCOME-BASED EDUCATION" and "NBA ACCREDITATION -ASSURANCE OF the QUALITY IN TECHNICAL EDUCATION" jointly organized by the State Project Implementation Unit-Uttar Pradesh, Dr APJ Abdul Kalam Technical University, Lucknow & The Institution of Engineers (India)	2 days
		Participated in Symposium on "Global Pandemic Outbreak: Role of Technology and Automation" conducted by JSS Academy of Technical Education Noida	5 days
		Participated in National Seminar on Significant role of E-education through Social Distancing During Lockdown of Covid-19 Pandemic organized by IET , Ayodhya in collaboration with SPIU, Uttar Pradesh	2 days
		Participated in National Seminar on "Virtual Teaching Learning with Google Classroom, Google Meet & Youtube organized by BIET, Jhansi, U.P. in collaboration with SPIU, Uttar Pradesh	1 days
4	Mr. Shivendra Kaura	Faculty Development Programme on "R" organized by Thiruvalluvar University College of Arts And Science Arakkonam in association with Spoken Tutorial, IIT Bombay	7 days
		Webinar on "Qualitative Research, Blogs Writing and Neuro Science in outbreak of COVID-19" conducted by JSS Academy of Technical Education Noida	3 days
		Participated in R training organized at Thiruvalluvar University College of Arts and Science, Arakkonam	1 semester
		FDP on "ARTIFICIAL INTELLIGENCE" organized by Department of Computer Science and Engineering of Vardhaman College of Engineering in collaboration with BrainOvision Solutions India PVT.Ltd.	5 days
		FDP on " Machine Learning & its Applications" conducted by Electronics & ICT Academy, IIT Roorkee	10days
5	Mr. Rajat Mehrotra	FDP on "Data Science & AI" organized by Mangalmay Institute of Engineering & Technology, Greater Noida (U.P.)	5 days
		Participated in Symposium on "Global Pandemic Outbreak: Role of Technology and Automation" conducted by JSS Academy of Technical Education Noida	5 days
		FDP on "OUTCOME-BASED EDUCATION and ACCREDITATION " Organized by IILM college of Engineering & Technology, Greater Noida	5 days
		FDP on "Role of Energy Management in Smart City" organized by Department of Electronics Engineering and Department of Mechanical Engineering, School of Engineering and Technology, Sharda University, Greater Noida, Uttar Pradesh	5 days
		FDP on "Artificial Intelligence"	5 days
		Workshop on "NAAC Assessment and Accreditation" A Step by Step Process organized by GATES Institute of Technology, Andhra Pradesh	
6	Mr. Brijesh Prasad	FDP on "Recent Innovations in Renewable Energy Technologies and Smart Grids" organized by Electrical Engineering Department, Bansal Institute of Engineering and Technology, Lucknow, U.P., India	5 days
		FDP on " Electric Vehicles: New Trends and Technologies" organized by EN-Department, ABES Engineering College, Uttar Pradesh, India	5 days



STUDENT ACHIEVEMENTS

S.No.	Name	Roll No.	Achievement/Certification	Duration
1	Reda Ansari	1719221036	Coursera: Speak English Professionally	5 weeks
			In person, online and on the phone.	
			Future Learn- Accenture:	3 weeks
			Digital Skills: Artificial Intelligence	
2	Akshit Daga	1819221003	Phyton for everybody	15-05-2020 to 09-07-2020
3	Ujjwal Singh	1819221054	Programming for Everybody (Getting Started with Python)	7 weeks
4	Nilesh	1819221030	PYTHON PROGRAMMING	12 WEEK
			COMPUTER SECURITY SYSTEM	12 WEEK
5	Yash Sharma	1619221063	Training on PLC and SCADA	1 month
6	Pawan Kumar Verma	169221033	SQL Course	
			Published a research paper in IJITEE publication titled: A Novel Machine to Machine Based Health Monitoring Device using IoT	
7	Saksham Tyagi	1719221039	Introduction to Artificial Intelligence	2 weeks
8	Saumya Katiyar	1819221041	Phyton Data Structure	3-4 week
			Programming for Everybody (Getting Started with Python)	3-4 week
9	Muskan	1819221027	Python for everybody	7 week
10	Mayank Rai	1719221019	Coursera :- How to speak English professionally	5 weeks
			Coding Nurter :- Campus Ambassador	1 month
			Coding ninja :- Learn basics of C ++	1month
11	Arkit Bajpai	1819221009	Intoduction to java and excelence	2 month
			java data stucture	4 month
			interview pripration java	4 month
12	Aman Pratap Singh	1819221005	Basic python from coursera	7week
13	Himanshu Sahu	1819221020	Coursera course certificate(Python)	7 Weeks
14	Sonu Kumar	1719221050	TCS iON Carrer Edge	5 days
15	Aniket Kumar	1719221006	Network Analysis (NPTEL Course)	12 weeks
			MATLAB Onramp	12 weeks
			Professional Communication Skills	12 weeks
16	Rishab Kumar Singh	1819221036	Programming Foundations with JavaScript, HTML and CSS	4 weeks
17	Mohd Hamza	1719221021	Network Analysis (NPTEL Course)	12 weeks

18	Srishti Bhatt	1819221050	Programming for Everyone by Coursera	7 weeks
			Python Data Structures by Coursera	7 weeks
19	Saksham Tyagi	1719221039	Introduction to Artificial Intelligence	2 weeks
20	Alok Ojha	1819221004	IOT(Internet Of Things)	4 Weeks
21	Sandeep Sharan	1819221040	Programming for Everybody (Getting Started with Python)	7 Week
			Python Data Structures	7 Week
			Startup 201 for beginners	45 Days
			Python programming(Girlscript)	7 Days
			C programming(Girlscript)	7 Days
			C++ Stack(Girlscript)	7 Days
			HTML/CSS(Girlscript)	7 Days
			Web Technologies	7 Days
			Computer Network	7 Days
22	Neeraj kumar Jha	1619221030	Power Systems Generation	8weeks
			Career Edge - Knockdown the Lockdown	7weeks
			Communication Skills	2weeks
23	Priyanshu Varshney	1819221034	Career Edge - Knockdown the Lockdown	2 weeks
			Python for Everybody by Coursera	7 weeks
			Python Data Structures by Coursera	7weeks
			Using Python to Access Web Data by Coursera	6 weeks
24	Shreya Vishal	1619221051	Published a research paper in IJITEE publication titled: A Novel Machine to Machine Based Health Monitoring Device using IoT	3 months
25	Purnima Pandey	1719221032	Python for everybody and DS certification	
			DS certification	
26	Sumit Chauhan	1819221051	cyber security e-learning	5 weeks
			computer vision basics coursera	2 months
			internet marketing e-learning	3 weeks
			developing AI applications on azure coursera	3 months
			communication strategies for a virtual age coursera	3 weeks
			build your first android app coursera	5 months
			cloud computing basics coursera	1 months
			project management coursera	3 months
			getting started with aws machine learning Coursera	3 weeks
			ICSI/CNSS international certificate	5 weeks
			fundamentals of graphics design Coursera	6 months
			AI for everyone coursera	6 months
			build your portfolio website CSS and HTML coursera	1 months
			facial expression recognition with keras coursera	3 weeks
			nptel iitk css	6 months
			nptel iitk python	6 months



PLACEMENT HIGHLIGHTS

Rohit Varshney (1619221044)	• Accenture	Ankit Raj (1619221011)	• Delton Cables Ltd.
Vikash Kumar Gupta (1619221061)	• Accenture	Ayush Gupta (1619221001)	• Longli Technolog
Divya Gupta (1619221017)	• Accenture	Gopesh Sharma (1619221019)	• Longli Technolog
Khushboo (1619221021)	• Accenture	Neeraj Kumar Jha (1619221030)	• Longli Technolog
Rahul Kumar (1619221040)	• Accenture	Yash Sharma (1619221063)	• Longli Technolog
Shashank Dixit (1619221048)	• Accenture	Sagar Bhati (1619221045)	• Mindtree Ltd • Mphasis
Mohd Irshad (1719221901)	• Accenture	Amritanshu Singh (1619221010)	• OPPO Mobiles
Kunal Negi (1619240116)	• Birlasoft	Monika (1619221029)	• SEW-EURODRIVE India Pvt Ltd
Masroor Ahmad Ansari (1519221025)	• Bosch	Kunik Kumar Rajput (1619221023)	• TCS
Md Sohail Tanveer (1619240133)	• Capgemini • TCS	Rahul Rai (1619221041)	• VVDN
Rohit Varshney (1619221044)	• Capgemini	Sarita Sahu (1619221046)	• Manikaran Power Limited
Abhinav Srivastava (1619221003)	• Ceasefire Industries • IT By Design	Sonal Singh (1619221053)	• Manikaran Power Limited

Program Outcomes/Program Specific Outcomes

Engineering Graduates will be able to:

1. Engineering knowledge: An Ability to apply the knowledge of basic sciences and fundamental engineering concepts in solving complex Electrical and Electronics engineering problems and related field.
2. Problem analysis: An Ability to identify, formulate and analyze complex Electrical and Electronics engineering problems and interpret data to arrive at substantial conclusions using first principles of mathematics, natural sciences and engineering sciences.
3. Design/development of solutions: An Ability to design solutions for complex Electrical and Electronics engineering problems and design system components or processes that meet the specified need with appropriate considerations for public health and safety, and the cultural, societal and environmental considerations.
4. Conduct investigations of complex problems: An Ability to use research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: An Ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex Electrical and Electronics engineering activities with an understanding of the limitations.
6. The engineer and society: An Ability to apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practices.
7. Environment and sustainability: An Ability to understand the

impact of the professional engineering solutions in societal and environmental context, and demonstrate the knowledge of, and need for sustainable development.

8. Ethics: An Ability to apply ethical practices and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: An Ability to function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings.
10. Communication: An Ability to communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: An Ability to demonstrate knowledge and understanding of the engineering and management principles and apply these to ones own work, as a member and leader in the team, to manage projects and in multidisciplinary environments.
12. Life-long learning: An Ability to recognize the need for, and have the preparation and ability to engage in independent and life-long learning of broadest context of technological change.

Program Specific Outcomes

1. Analyze, design and simulate systems and applications related to electrical & electronics engineering and its allied areas.
2. Analyze and develop models related to control & automation sectors by applying the knowledge of electrical and electronics engineering.



G. L. Bajaj Institute of Technology & Management

Plot No. 2, Knowledge Park-3, Greater Noida, U.P., Website: www.glbitm.org, College Code: 192