

EEE-INSIDER



GL BAJAJ

Institute of Technology & Management

FIND YOUR SPARK

JANUARY 2019 - JULY 2019

MESSAGE



“Education is for improving the lives of others and for leaving your community and world better than you found it” I deem it to be a matter of immense pleasure and honor for me to address you all through this newsletter issued by Electrical and Electronics Department, GLBITM. 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 during the stipulated period can be viewed.

It is indeed very heartening to witness that the college has carved a name for itself in the academic scenario of the region. Education is the most powerful tool to bring desirable changes in our personality and also to bring positive changes in our society. It is the only medium which enables you to move from darkness to brightness I also believe

that, technocrats are the key to continued economic and technological advancement of our country.

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)



In the age of globalization, we aspire to build a truly different institution of engineering and technology, an institution with a marked difference in quality to serve the local people in global arena. 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.

The 4-year academic programme that is designed and implemented by GL Bajaj is targeted at providing the undergraduates with a solid foundation for understanding advancing technology. 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 are trusted to nurturing juvenile minds and preparing them for challenges in today's globalized technology. The doors of our faculty members are always open for any student who seeks help. We persuade all the students to use their time with professors and teaching staff fruitfully, to develop their own proficiency. 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.

At Last, I would like to congratulate the team of students and the faculty for their tireless efforts that have come to fruition in the form of this newsletter. My message to the HOD, faculty members, staff and students is to dedicate this year to a correct understanding of what education really means and let us all benefit from this understanding.

-Dr. Rajeev Agrawal (Director, GLBITM)



Education is not just about the subjects that are learnt and taught in college. Becoming educated is not restricted to being in school and then in college, gathering certificates and feeling proud of oneself. It is a lifelong exercise that can be unbelievably exciting if only we wish to jump onto the train of experience and take a trip to every conceivable place on the earth.

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.

The department Newsletter will definitely help to show-case the activities that are happening in our department. It provides a platform for exposing the merits and academic achievements of the faculty and students. This would definitely create an impact in the minds of readers, by way of providing larger visibility and dimension to the department.

I take this opportunity to congratulate the coordinators and editorial board for bringing out this newsletter as per schedule, which in itself is an achievement considering the effort and time required. May all our students soar high in uncharted skies and bring glory to the world and their profession with the wings of education!

-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.

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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

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

FDP on Automation

By: Abhishek Gupta



Faculty Members Attending FDP on Industrial Automation

Department of Electrical and Electronics Engineering, GL Bajaj Institute of Technology and Management Greater Noida has organized two days Faculty Development Program (FDP) on Industrial Automation dated 15-16 Jan, 2019. Faculty members and Head of the department participated in the program.

The program was conducted under the banner of ISTE and IEEE in technical association with Vision Automation Pvt. Ltd., Noida. The technical session were taken by the expert Mr. Bhawani Singh and Mrs. Dolly Sharma from Vision Automation Pvt. Ltd., Noida.

Enigma Youth Club Event

By: Shubham Kumar



Students Participating in Various Events

ENIGMA club of Electrical and Electronics Engineering Department has organized "ENIGMA YOUTH FEST-2019" on 21st-22nd Feb.2019. The opening of the event was marked by the presence of our respected Director sir, Head Electrical & Electronics Engineering department and students.

The event took place under the guidance of Mr. Rajat Mehrotra & Mr. Shivendar Kaura of EEE Department. Various categories of event that was conducted in Fest were:-

SPORTS:-Cricket, Futsal, Badminton, Kabaddi, Pub-G,

Basketball.

CULTURAL:- Singing, Dance, Poetry, Drama.

SCIENCE TECHNOLOGY AND BUSINESS:- Technical Crossword, IPL Auction, Technical Poster Presentation, Blind Coding, Table Pong. The entire event was organized and managed by the students of EEE department. Student coordinators involved in organizing the Enigma Youth Fest were: - Pawan Kumar Verma, Vishudeep Tyagi & Ayush Gupta. The ENIGMA YOUTH FEST-2019 was overall a great success, such events, organized and managed by students; inculcate in them a sense of responsibility and event management skills. We hope to organize more such events in the future as well.

Winners of each event are:

CRICKET:-

WINNER:- VINEET JAISWAL AND TEAM

FUTSAL:-

WINNER:- KEVIN AND TEAM

KABADDI:-

WINNER:- GURMEET SINGH AND TEAM

BASKETBALL:-

WINNER:- ABHISHEK AND TEAM

BADMINTON:-

SINGLE (BOYS):- WINNER:-UDAY

SINGLE (GIRLS):- WINNER:- PURNIMA

DOUBLE (BOYS):- WINNER:- PRANJAL

PUBG:-

WINNER:- SAHIL, KUNAL, HARSHIT, ABHILASH

Industrial Visit to Narora Atomic Power Station

By: Reda Ansari

On February 19th, 2019 Department of EEE of G.L.

Bajaj Institute of Technology & Management, organised an industrial visit for 2nd year students to Narora Atomic Power Station. Mr. Kailash Sharma, Assistant Professor, EEE Department



Students at Narora Atomic Power Station, Bulandshahr, Uttar Pradesh

accompanied 43 students. This was really the life changing experience for the students as they saw the real applications of engineering and interactions of energy, men, material and machine.

Narora Atomic Power Station (NAPS) is located in Narora, Bulandshahr District in Uttar Pradesh, India. The plant is thus placed 68 km from the district headquarters in Bulandshahr. The plant houses two reactors, each a pressurized heavy water reactor (PHWR) capable of producing 220 MW of electricity. Commercial operation of NAPS1 began on 1st January 1991, NAPS2 on 1st July 1992.

In December 1999, the facility had become the first ISO-14001 certified atomic power station in Asia and also received the Golden Peacock Award from the World Environment Foundation for its efforts in environment preservation. As of 28 February 2003, NAPS reactors had achieved a cumulative generation of 28,366 million units (MUs) since they began commercial operations. Unit-1 registered 14,231 MUs of this total while Unit-2 accounted for 14,135 MUs. NAPS is not under International Atomic Energy Agency (IAEA) Safeguards.

Expert talk on Application of Electrical Machine in Automation Sector

By: Rishabh Choubey



Prof. S.P. Srivastava, IIT Roorkee Giving Lecture on Application of Electrical Machine in Automation Sector

On April 12th, 2019 Expert talk on “Application of Electrical Machine in Automation Sector” by Prof. S.P. Srivastava, IIT Roorkee was arranged. Talk was Technically Sponsored by ISTE New Delhi and attended by total 71 participants. The lecture covered basic concepts of Electrical Machines and its application.

In his lucid talk, Prof. S. P. Srivastava explains about Automation. Automation in industries plays a vital role by using machines 'intelligently'. Minimal human intervention is the goal that drives the adoption of automation in industries. Along with reducing human intervention, main benefits of automation in industries include leaner operation processes that require less material, less energy and reduced labour waste. Automation can also result in enhanced quality, precision

and accuracy, it involves the various control systems operation that enable operating equipment to run on their own, speed for tasks and many more.

Open Day Project Presentation

By: Reda Ansari

Department of Electrical And Electronics had organized the project open day on 8th June, 2019 for the final year students in which the students had showcased their projects. The students were motivated to make projects keeping in mind the need of the current scenario as well as on the use of the latest technology in their field. To judge the quality of projects experts from industry: Mr. Pankaj Kumar Bansal (Sr. Manager, Energy Efficiency Services Limited, GoI) and Mr. Alok Tripathi (Vice President, G.K. Minda Group) were invited. Various appreciable projects came up like:

- Automatic Cooking Machine
- Electric Bicycle
- Intelligent Traffic Control System
- Heart disease prediction by NN using ECG analysis
- Automatic Wheelchair Using Eye Ball Detection
- Automation Based Solid Waste Management etc.



Students Showcasing their Project to Mr. Alok Tripathi (Vice President, G.K. Minda Group)

Ruksati - Farewell

By: Sandeep Sharan

Ruksati - was the name given to the farewell given to the final year students. Along their journey of these years they may have seen many ups and downs but in the end as it is said everything gets all well. Complete arrangement was done by the students of 3rd year with the help of department to make this farewell a memorable. So, whenever these students remember their last day of college it could bring a smile on their faces.

Students shared their experiences. While they are excited and enthusiastic to share that they are starting new journey of their life, they also feeling sad that they are leaving their college. This place had been like the second home for them where they had spent most of their time. Some student quoted that the faculty of their department had been extremely kind and always supported us throughout our learning phase.

They give suggestions and thanks to the 3rd year students for organizing such a nice party.



Final Year Students with Faculty Members of EEE Department

FDP on Creativity & Innovation in Teaching Learning Process

By: Saurabh Singh Yadav

Department of Electrical And Electronics had organized a 5- Day faculty development programme (FDP) on “CREATIVITY AND INNOVATION IN TEACHING LEARNING PROCESS” sponsored by AKTU, Lucknow under the scheme of TEQIP-III from 24th -28th June, 2019. The purpose of this faculty development program is to describe the effective teaching Outcomes, Clarity, Enthusiasm and Engagement as a conceptual framework to increase self-reflective practice among teachers and students in education settings. Resource persons who were instrumental in ensuring this FDP's success include Academicians from different renowned institutes.

Topics covered are:

- Lively Teaching Through the Art of Story Telling (By: Shree A.K. Goel, NPTI, Faridabad)
- Innovative methods of teaching (By: Dr. Satyendra Sharma, GLBITM, Greater Noida)
- Innovation in teaching & nudge technology (By: Dr. Rajeev Agarwal, GLBITM, Greater Noida)
- Motivational ways of teaching to inspire students & IPR (By: Dr. Ambika Pathy, GCET, Greater Noida)
- OBE & Learning Style (By: Dr. Mohit Bansal, GLBITM, Greater Noida)
- Outcome Based Education (By: Dr. M.A. Ansari, GBU, Greater Noida)
- Importance of Soft Skills & Communication Skills (By: Dr. Monika Jain, ITS, Greater Noida)
- Using Mind Maps for Effective Classroom Presentation (By: Dr. Amit Sehgal, GLBITM, Greater Noida)
- Instructional Design for Active learning (By: Dr. Hemant Ahuja, ABES-EC, Ghaziabad)
- Outcome Based Education - The need of the hour (By: Dr. Gajendra Singh, ABES-EC, Ghaziabad)
- Critical thinking and motivational ways of teaching (By: Dr. P.C. Vashisth, GLBITM, Greater Noida)



Faculties Attending Faculty Development Program

Departmental Presentation (A Peer-Peer Learning Exercise)

On July, 8th -9th, 2019 a presentation on “Active Teaching Learning Process” had organized by Department of Electrical And Electronics. Faculty members of the Department discussed about the different active learning techniques they will use while teaching their subjects.

Faculties discussed about the following points:

- Effective teaching and classroom management
- Creative Techniques for Encouraging Innovation in the Classroom
- Active learning tools used in classroom.

By: Reda Ansari



Faculty Member Discussing About Different Active Learning Tools

STUDENT ACHIEVEMENT

Shivesh Kumar Jha secured 1st position in UDGAM-Annual entrepreneurship summit of IIT-Guwahati organized by EDC-IIT Guwahati on 18-20 January 2019 and secured 2nd rank in “Ideathon” (National level competition) organized by M.L.V Textile and Engineering College, Bhilwara under TEQIP-III held on 28 & 29 January, 2019.



Shivesh Kumar Jha Receiving Award from Dr. Arnab Sarkar, Chairman, Technical Board, IIT Guwahati

PLACEMENT HIGHLIGHTS

(As on 31.3.2019)

Yash Sharma
(1519221061)

- Trident Group
- NTT Data

Devbrat Pandey
(1519221025)

- Minda Industries Ltd.
(Uno Minda)

Shubham Dubey
(1519221055)

- Trident Group

Deepika Yadav
(1519213035)

- Rane Group

Shivam Shekhar
(1519221053)

- Rane Group

Prashant Chauhan
(1519221042)

- Capgemini

Sachin Priyadarshi
(1519221050)

- Capgemini

Aman Jain
(1519213016)

- TCS

Ayush Dawas
(1519221022)

- Clearpack Automation
Pvt. Ltd

Khushboo Kumari
(1519221030)

- HCL Technologies

Surabhi Srivastava
(1519221056)

- HCL Technologies
- Motherson Sumi

Ashutosh Anand
Upadhyay (1519221019)

- Circuitronix

Adarsh Kumar Kushwaha
(1519221004)

- Ericsson

Shivam Kumar Gupta
(1519221052)

- Ericsson

Deepak Kumar
(1519221024)

- Sandhar Technologies Limited

HIGHER STUDIES

Qualified GATE 2019

M. Tech
(BIT, Mesra, Ranchi)



Rajnish Anand
(1519221045)



Amit Prakash
(1519221009)

DEPARTMENTAL TOPPERS



Reda Ansari
EEE-2nd Year
Percentage: 83.9%



Sonal Singh
EEE-3rd Year
Percentage: 85.1%



Devbrat Pandey
EEE-4th Year
Percentage-83.75%

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

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