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Issue-2

# News Letter

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



**GL BAJAJ**  
Institute of Technology & Management

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## GUEST LECTURE ON “WIRELESS TELECOM NETWORKS”



On 29th July 2017 a Guest lecture on wireless telecom networks was organized by ECE Department of GLBITM, Gr. Noida in association with IEEE Student Chapter UP Section (India).

Ericsson/Huawei Certified Experts enlightened the attendees with insight on the wireless communication and they highlighted various aspects of –

- Wireless Communication Systems
- Why Wireless is different from other means/ways of communications?
- Wireless System Architecture
- Multiple Access Techniques
- Evolution of Cellular Networks (1G to 4G)
- Benefits of telecommunications and networking

The attendees were benefitted by views and thoughts shared by the experts, as it had a practical/industrial approach of learning and they could relate the implementation in current & future offerings.

## GUEST LECTURE ON “APTITUDE SKILLS FOR ENGINEERS”

A guest lecture on Aptitude Skills by Mr. Ajay Kumar, Director -Time Education was organized by ECE Department of GLBITM, Gr. Noida on 04 August 2017. During the session he discussed the various tricks to solve the tricky questions in few seconds.

As detailed by Mr. Kumar the use of aptitude and knowledge tests to screen potential job applicants has long been standard practice across many different sectors. As such they have become an important and integral part of the overall interview process. Students solved around 10 questions of Aptitude during the lecture.

The main aim of the guest lecture was that the students can enhance their chances of selection in placement interviews by developing and sharpening aptitude skills.



**GUEST LECTURE ON “OPPORTUNITIES FOR ECE GRADUATES In IT INDUSTRY”**



On 9th August 2017 a guest lecture on “Opportunities for ECE graduates in IT industries” by Mr. Vishal Kumar, Director –Research & Technology, Landis+ Gyr, Noida was organized by the ECE Department of GLBITM, Gr. Noida.

In his address, Mr. Vishal Kumar discussed about two major components of Information Technology i.e. IT services and business process outsourcing (BPO). He also discussed about the top indian IT service providers/MNC's, responsibilities of ECE graduates in industry.

When such words of wisdom and insight come from seasoned professionals the students for sure are benefitted in selection of career paths.





## Entrepreneurship Awareness Camp

The Department of Electronics & Communication Engineering of GL Bajaj Institute of Technology and Management, Greater Noida organized a 3 days Entrepreneurship Awareness Camp (17-19 August 2017), sponsored by Department of Science and Technology, Ministry of Science & Technology, Government of India. The program was organized in association with Asian Society for Entrepreneurship Education & Development, Greater Noida and NXG ventures, Ahemdabad. The event is organized to create awareness among students of Engineering and Science courses about various facets of entrepreneurship as an alternative career option.

Dr. Nagendra P. Singh (President, ASEED), Dr.A.K. Garg (Sr. Director, Ministry of Electronics & IT), Dr. Rishi Raj Singh (Director-Training, NIESBUD, Noida), Dr. Manpreet Kaur (Dy Director, NGF Palwal), Mr. Anupam (Mentor, NXG Ventures) & Mr. Ashish Kannaujia (Technical Advisor, iCreate), Mr.S.K. Verma (Financial Advisor) and Mr. Atul Rana (Regional Manager, Mantec Consultants, Noida) were invited to motivate the students to choose Entrepreneurship as an alternative career option. The students felt privileged to meet the delegates. Dr. Rajeev Agrawal (Director, GLBITM) and Dr. Amit Sehgal (Head of the Department, ECE) expressed his gratitude for speakers.



### Industrial visit at Productronica and Electronica India (Pragati Maidan)



Productronica and Electronica India were two parallel events being organized at Pragati Maidan, New Delhi on 14 – 16 Sep 2017. The event had demonstration of products and technology related to various field of Electronics Industry.

Student of 2nd year of ECE Department visited the Expo on 16th Sept 2017. It was largest marketplace for electronic components, systems, applications and electronics production technologies in India. The latest editions impressed with a high internationality of exhibitors as well as a supporting program with a top-class line-up at the conferences. 455 exhibitors from 17 countries showcased new developments and trends of the entire value chain of electronics, taking up over 20,000 square meters of exhibition space.

### Industrial visit at Franciscan Solutions Pvt. Ltd.

On Sep. 15, 2017 the department of ECE of G L Bajaj organized an industrial visit for students to industry named Franciscan Solutions Pvt. Ltd.

Franciscan is an ISO Certified Company in Web Technologies and Software Development & an educational ERP solution provider company working with approx 600 workforces across the nation since past 10 years.

A group of 45 students of 2nd and 3rd year ECE visited this company for on-site training sessions on Project Development Life Cycle.

Franciscan is actively providing unique and strategic e-Solutions & ERP Services like – web designing, website development, mobile app development, digital marketing, SEO, PPC, E-commerce and dedicated hosting.







## National Seminar on Medical Image Analysis & Signal Processing

Two days National Seminar on Medical Image Analysis and Signal Processing was organized on 22-23 September 2017 by Deptt of ECE of G L Bajaj Institute of Technology and Management, Greater Noida. The seminar was attended by more than 200 students and faculty of various institutes. The Chief Guest of the event Dr. Dinesh Kapoor - Director and HOD Radiology, Fortis Hospital Noida inaugurated the seminar along with Dr Rajeev Agrawal - Director G L Bajaj and other invited guests. In the inaugural speech Dr. Dinesh Kapoor focused on the need to integrate engineering with medical science to upgrade the healthcare services and make it accessible and affordable to everyone. Dr. Rajeev Agrawal shared his experiences of working with medical images using engineering techniques to develop effective and accurate diagnosis methods. Other invited speakers included Dr. Chandramani Kishore from Indian Institute of Science, Bangalore and Mr. Kundana Lal – COO, Ativitti Technologies. Student sessions on Paper and Poster Presentation were also held during the seminar. In these sessions, students from various streams of engineering presented their work to the experts and best presentations were awarded.





## IEEE DAY



G L Bajaj Institute of Technology and Management, Greater Noida and IEEE student branch took an initiative to celebrate the IEEE day on 03 Oct'2017 in the Institute. The event was organized by Department of Electronics and Communication Engineering. The objective of the event was to promote the IEEE aligned research, development and create awareness among students and faculty towards various IEEE initiatives.

### Activity Details:-

1. Promotion and importance of IEEE membership
2. Technical paper presentation

The inaugural ceremony of IEEE day celebration was conducted under the gracious presence of Dr. N.K. Sharma, Dean, GLBITM, Greater Noida, Dr. Jai Singh, Member IEEE, UP section, IEEE Student Branch Counselors, Faculties, IEEE Student members and other students. The event was inaugurated with lightening of lamp and views on IEEE from Dr. N.K. Sharma. He spoke about the importance of being professional member of IEEE, IEEE's organization and leadership.

IEEE Day Celebration was concluded by Dr. Jai Singh, Member IEEE, UP section. He gave the detail information of different societies of IEEE. He also guided the faculties and students regarding how to be benefitted by taking membership of different IEEE societies.



## “ABHIVYAKTI”

### Newspaper Design, Extempore & debate and Logo & Moto Identification Competition



Newspaper design, Extempore & debate, Logo & Moto identification competition was organized by ICC (Editorial Society), Department of Electronics and Communication on 5th & 6th October 2017 in which a total 57 students participated in the event, from various departments of college as well. Students participated with full enthusiasm and good spirit.

Newspaper design competition was won by Kanishka Singh (ECE), First Runner-up were Ishita Mittal & Shalini(C.S.) and second runner-up were Anchal & Aman Kumar Bajpai (ECE).

Debate and Extempore competition was won by Saket Rai (CE), First Runner-up was Pratik Kumar(ECE) and second runner-up was Anjali Pathak (CS)

Logo and Moto competition was won by Shivani Sharma(CS), First Runner-up were Sarath Diakaran & Sahil Vohra(CS). Students were felicitated with prizes and certificates at the end of the competition. The whole competition was a huge success with enthusiastic participation of students with great spirit.





## “ENGINEERING AWARENESS CAMP”



On 24th Oct 2017 Engineering Awareness Camp was organized by the social society of Innovative & Creative Cell (Electronics and Communication Department).

In this camp 40 students of R.S.S. International school, Noida were invited, during which students visited Electrical, Electronics, Automation & IOS labs, mechanical workshop & Microsoft innovation center. Through this visit they could understand that how they can use their stream (Science) in engineering field.

After the visit Extempore & sketch competition was conducted, in which total 30 students participated in the event. Students participated with full keenness.

Extempore competition was won by Amardeep Singh, First Runner-up was Aakash Singh .

Sketch competition was won by Prachi, First Runner-up Kajal Rai, second runner-up was Amrita and Neha Kumari. Prizes were distributed to the students at the end of the competition. The whole competition was a huge success with such good participation of students.

## PARTICIPATION OF GLBITM at STARTUP INDIA



Organized under the StartupIndia initiative, Startup India Yatra is a series of events travelling to non-metro cities of India to search for entrepreneurial talent and help develop startup ecosystem in the state. The Greater Noida edition of this event was held on November 25, 2017. The event was conducted by IBHubs in association with NxG Ventures. This seventh event in UP edition witnessed participation of more than 500 students from various engineering and management institutes. Under competitive event, more than 70 teams of potential entrepreneurs presented their ideas to the panel for experts. G L Bajaj registered its strong presence at the event with

12 teams having students and faculty from ECE, ME, CSE and EEE Department. Dr. Amit Sehgal from Deptt of ECE represented Technology Incubation and Development Center of the college in association with NxG Ventures as Incubator for potential entrepreneurs. 9 teams from the college have been selected for the Grand Finale Event to be held on 25 January 2018 in Lucknow. 05 of these teams lead by students and faculty of ECE Deptt and 04 teams from ME deptt have been selected for the Final Round.

These teams will be getting incubation opportunities from top Incubators of the state including IIT Kanpur and IIT BHU.



## SESSION ON LEARN AND REVIEW MAPLE SOFTWARE

Demonstration session of Maple software was conducted on 13/12/2017. Faculties from the Mathematics, Computer Science, Mechanical, Electronics & Communication engineering and Electrical Engineering were present during the session

The session was conducted by Mr. Manojit and Mr. Abhay. At the beginning of session Mr. Manojit gave a brief introduction about Maple base software. He discussed about the history of Maple software and basic concepts of it.

After that session was handover to Mr. Abhay for technical demonstration. In the technical session he discussed about basics of Maple base software which is a student version. With the help of this software faculty can demonstrate different theoretical topics as a model and graphical representation in 2D and 3D graphs. They elaborated session on Maple tools, mathematical operations, differential equations, integration, partial differential equation etc. They also explained that how to get online help for Maple base software in various field of engineering. Further he discussed about automata in Maple, conversion from Maple code to different languages like C, MATLAB, Python, R, Visual Basics etc.

The overall session was very interactive and informative.



## NEW YEAR CELEBRATION 2018



The department of Electronics and Communication Engineering celebrated the New Year with fun and frolic on 1st Jan 2018.

Dr. Satyendra Sharma (HOD) wished everyone a successful 2018. He also motivated all the faculties to bring the best out of them for their personal as well professional life.



## Student Corner

### AIR CLEANING TOWER

According to WHO, air pollution causes the greatest environmental threat to our health. It causes respiratory and cardiovascular diseases and accounts for over 7 million deaths every year. In Delhi, the average life expectancy is shortened by 6.3 years due to air pollution. Not just Delhi, but the whole world is the victim of air pollution. Hence, the latest technology invention in environmental pollution is TOWER that cleans outdoor air.

The TOWER is a seven- meter (23 feet) high structure that removes ultra-fine particles from the air using a patented ion-technology developed by scientists at Deft University Of Technology. It basically works like, when we have a plastic comb, and when we rub it, it becomes electrically charged and attracts hair. It cleans 30,000 cubic meters of air per hour without using Ozone and uses about 1,400 Watts of electricity – less than a desk-top air purifier. Air from the area surrounding the Tower is drawn into the structure. All airborne particles receive an electric charge. The charged particles are captured and accumulate on large collector plates that have an opposite electric charge. The clean air is then blown from the Tower back into the environment.

Analysis and work is going on to use minimum number of Towers and to develop larger versions like BUILDINGS to counter air pollution.

**SAUMYA**  
**B.Tech (2nd Year)**  
**Department of ECE**

### MOLECULAR ELECTRONICS

"Molecular electronics" is the branch of nanotechnology which provides the potential means to extend "Moore's law ". Traditional electronic circuit can be shrinked by building it atom by atom instead of being carved out from bulk material. Molecular electronics operates in quantum realm of distance less than 100nm, where quantum mechanics effects are important in contrast with conventional circuit where there is a continuous flow of charge. However, this is an emerging field and entire electronic circuits are still very far from being realized but continuous demand for more computing power together with the inherent limits of present day Lithographic methods makes the transition seem unavoidable.

**ABHISHEK MISHRA**  
**B.Tech (3rd Year)**  
**Department of ECE**





## Editorial Board

**Convenor**

: Dr. Satyendra Sharma (HOD)

**Editor**

: Dr. Amit Seghal Associate Professor  
Dr. Dinesh Singh - Associate Professor  
Dr. Shilpa Choudhary - Associate Professor

**Student Editor**

: Garima Singh - III year  
Akansha Joshi - III year



## VISION

To become a department of repute and prepare globally competent and socially responsible professionals with holistic knowledge and technical skills.

## MISSION

- ✓ To provide a supportive environment for effective knowledge transfer and nurturing ideas.
- ✓ To equip students with technical and leadership skills, and abilities to face the global challenges.
- ✓ To create an environment conducive for research and development with continuous involvement of industry.
- ✓ To inculcate professional and moral values in the students.

## Program Educational objectives (PEO)

On completion of this course, our graduates will be able to

1. Exhibit multi-disciplinary technical and leadership skills for better employability, higher education and entrepreneurship.
2. Possess strong knowledge in the field of Electronics and Communication Engineering to develop solutions for real life problems.
3. Undertake professional responsibilities through strong team-work, communication skills and life-long learning.
4. Become socially responsible professionals with moral values and ethics.

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Plot No. 2, Knowledge Park III,  
Greater Noida, Distt. G.B. Nagar, U.P., India-201306