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News Letter

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



GL BAJAJ
Institute of Technology & Management

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INDUSTRIAL VISIT TO BARCLAYS



An Industrial Visit was carried out at BARCLAYS on 30th of January 2018 for VIth semester students. The main objective behind the visit was to make students aware about how various activities related to marketing, financing and human resource are carried out in company.

Approximately 15 students were taken to BARCLAYS, NOIDA Sec-62 branch.

The team members explained how to develop the skills to crack the Interview, it included some basic points like -

1. Be neatly groomed and dress formally
2. Be confident.
3. Maintain a composed body posture.
4. Conclude the interview on a positive note.

During Second session they gave brief information about BARCLAYS and how to join their company.

Whole visit was very useful.



GUEST LECTURE ON “ADVANCE PROGRAMMING SKILLS”

On 03/02/2018 a Guest Lecture on “ADVANCE PROGRAMMING SKILLS” by Rohit kauashal was organized by Department of Electronics and Communication Engineering. He started his session with a quote “ we don't get our best version ,because we use to find out the skipping routes instead of doing hardwork”.

During the session he suggested that –

1. We must start from basic programs and if we got success in that ,then we should try to find out different ways to solve that very problem again and again.
2. If we want to be a good programmer then we must have to feel the algorithms and programs in our daily life, only then we will start getting interest in this, it is all about our logical thinking.
3. The more we will interact with the programming languages the more we will be familiar with that.
4. Each and every thing in this world is in demand to be programmable, so we have enough scope too in this field.

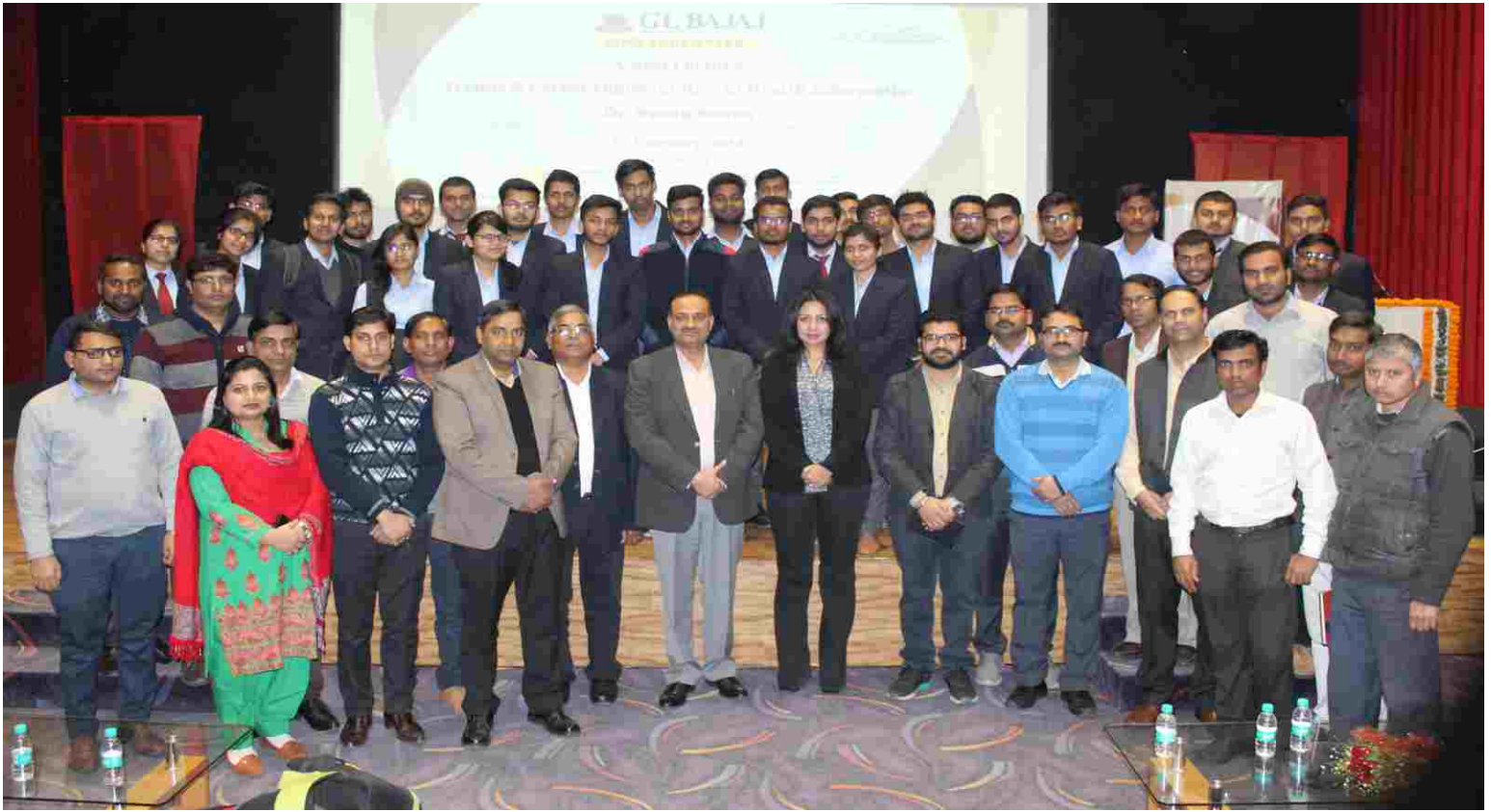
He ended his session with very special words that - We have a number of examples in this world who were once normal students and at their college level only they became milliners like Mark Zuckerberg, and many more, they all were programmer loving and highly technological.

So it must be one of the important skills that we must have to learn, as in near future it will be the necessity! We must not escape from this.





GUEST LECTURE ON “HEALTH INFORMATICS” BY DR.SWETA SNEHA



On 07 Feb 2018 an expert lecture on Health Informatics by Dr. Sweta Sneha, Director of Healthcare Management and Informatics and an Associate Professor of Information Systems at Kennesaw State University was organized by ECE Department of GLBITM, Gr. Noida.

During the session she discussed about –

- Trends and Career Opportunities in Health Informatics.
- How health informatics will be helpful during Graying of the Globe
- Explained about digitalization of health records.

At the end of session there was a open discussion, where students could resolve their queries.



ASSOCHAM SUMMIT

“Connected Devices... Connected World...”

The Associated Chambers of Commerce and Industry of India (ASSOCHAM India) organized a summit on “Connected Devices... Connected World”. The event was held at The Claridges, New Delhi on February 16, 2018. Faculty and students of ECE and Mechanical Engineering Department attended this summit.

The event was focused on three major application domains of Internet of Things (IoT) – Connected Mobility, Healthcare & Connected Medical Devices and Wearables, and Smart Homes & Smart Cities. Keynote Talks and Panel Discussions were held on these three domains which witnessed participation from various corporate groups, leading startups and academia from across the country. The event was inaugurated by Ms. Aruna Sunadararajan, IAS, Telecom Commission & Secretary (T) Department of Telecommunication, Government of India along with Chairman, President and Secretary General of ASSOCHAM.

Mr. Amit Marwah, CMO - Nokia India, in his inaugural talk highlighted the latest trends and opportunities in IoT and need for the network infrastructure to provide required connectivity and data handling capacity for IoT applications.

During panel discussions, various applications of IoT in field of Automotive, Healthcare and Smart City were discussed and views were shared by eminent speakers – Mr. Sunil David, Regional Director – IoT, AT&T, Mr. Angira Agrawal, Senior Vice President & Enterprise Head, Vodafone, Mr. Alok Shankar, Country General Manager, India, Fitbit Inc., Mr. Neeraj Singh, Director, KPMG, Mr. CV Kamesh, Senior General Manager, Hitachi, Mr. Subrata Kumar Mitra, Director, Huawei – to name a few. It was mentioned by all the speakers that IoT is the next driving force for industry, and technology development in all spheres is required in India cope-up with the global scenario.

Shri Sanjay Goel, Joint Secretary, Ministry of Electronics and IT, Government of India shared upcoming policies, regulations and efforts being done by the Government to support IoT application and companies working in this field.

It was a highly knowledgeable experience for the students and faculty to interact with such eminent personalities and to know the future direction of industry and technology





INDUSTRIAL VISIT AT ADVANCED LEVEL TELECOM TRAINING CENTRE

On 23rd of February, 2018 the department of ECE of G L Bajaj organized an industrial visit for students to industry named AL TTC. Advanced Level Telecom Training Centre (AL TTC), Ghaziabad is the apex training institute of BSNL. AL TTC was set up as a joint venture of International Telecommunication Union, Geneva, UNDP and the Government of India in 1975. AL TTC functions on the frontiers of telecom technology, finance and management and imparts training to the leaders in the business. The strength of AL TTC lies in the state of art labs, massive infrastructure and trained, talented and qualified human resource pool.



The training areas cover vast spectrum of topics such as Digital Switching and IN; Mobile Communication: GSM, 3G, CDMA; Data communication and Information Technology: MPLS, VPN, Broadband, IPv6, Database Administration, Server Administration, IT Security; Optical Networks: SDH, DWDM, NGSDH, NGN, Access Networks, Management, Telecom Finance, Building Science (Civil and Electrical) and Telecom Network Planning.



FACULTY DEVELOPMENT PROGRAMME ON NEXT GENERATION NETWORKS

Faculty Development Program was conducted on 24th & 26th Feb 2018, organized by ICEIT Student chapter & MTT-S of Department of Electronics & Communication Engineering, GLBITM. This program was carried out in 3 different sessions. On 24th February 2018 session was conducted on Next Generation Networks by Mr. Abhishek Gupta, Senior Division Engineer of ALTTC, Ghaziabad. During this session he discussed about comparative study of networks, installation of networks and its working environment in Telecom.

Second session was conducted in the morning 26th February 2018 by Dr. Satyendra Sharma, HOD, ECE Department, GLBITM. He discussed about the Experimental approach for planning & designing a mobile networks, elaborated the session with the design aspects of antenna its application in defense and more areas.

The last session was conducted in the afternoon 26th February 2018 by Dr. A K Gautam, Professor, ICT Dept, Gautam budh university. He discussed about the basics of Microstrip antenna & its applications.





INDUSTRIAL VISIT On The Ministry of Electronics and Information Technology



On March 21st, 2018 the department of ECE of G L Bajaj organized an industrial visit for students to industry named The Ministry of Electronics and Information Technology. Meity (The Ministry of Electronics and Information Technology) The Ministry of Electronics and Information Technology (MeitY) is a part of the Union Government of the Republic of India. It was carved out of Ministry of Communications and Information Technology on 19 July 2016.

Companies under MeitY

- Media Lab Asia (MLAsia)
- National Informatics Centre Services Incorporated (NICSI) — Public Sector Enterprise under control of National Informatics Centre.
- National Internet Exchange of India (NIXI)
- Digital Locker
- Unique Identification Authority of India (UIDAI)
- CSC e-Governance Services India Limited

Internet Governance:

- e-Government: Providing e-infrastructure for delivery of e-services
- e-Industry: Promotion of electronics hardware manufacturing and IT-ITeS industry
- e-Innovation / R&D: Implementation of R&D Framework - Enabling creation of Innovation/ R&D Infrastructure in emerging areas of ICT&E/Establishment of mechanism for R&D translation
- e-Learning: Providing support for development of e-Skills and Knowledge network
- e-Security: Securing India's cyber space
- e-Inclusion: Promoting the use of ICT for more inclusive growth



A mission mode project (MMP) is an individual project within the National e-Governance Plan (NeGP) that focuses on one aspect of electronic governance, such as banking, land records or commercial taxes etc.

Within NeGP, "mission mode" implies that projects have clearly defined objectives, scopes, and implementation timelines and milestones, as well as measurable outcomes and service levels.

NeGP comprises 31 mission mode projects (MMPs), which are further classified as state, central or integrated projects. Each state government can also define five MMPs specific to its individual needs.

The Centre for e-Governance therefore provides a unique platform for wider dissemination of awareness regarding successful e-Governance initiatives in the country as well as the roadmap for implementation of e-Governance. CeG would also undertake hosting of important Seminars/ Conferences and other similar awareness programs to reach out to the common man. The CeG is a part of the "Awareness and Communication" activity under National e-Governance Plan (NeGP) and seeks to bring the achievements under NeGP under one umbrella for the information of the citizens.

GUEST LECTURE ON “INTERNET OF THINGS”



On 24th Mar 2018 an expert lecture on Internet of Things by Prof (Dr). Brahmjit Singh, Dean Research and Consultancy, NIT Kurukshetra, was organized by ICEIT Student Chapter, ECE Department of GLBITM, Gr. Noida.

During the session he discussed about –

- Basics of IoT, Architecture and IOT Security.
- IoT is augmented with sensors and actuators; the technology becomes an instance of the more general class of cyber-physical systems.
- Industries using IoT.
- IoT case studies and applications.

Finally concluded the discussion of IoT with Automation and its advantages. At the end of session there was an open discussion, where students could resolve their queries.



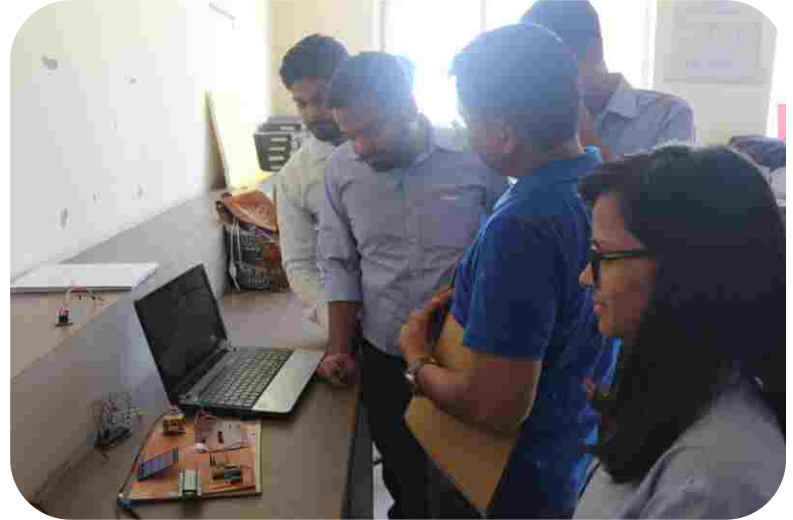


PROJECT OPEN DAY

Project open day of Department of Electronics and Communication Engineering was organized on 8th May 2018. All the final year students showcase their projects. To evaluate the projects some industry experts were invited .

Industry Experts

1. Mr. Atul Bhargava
Senior Manager
ST Microelectronics, Greater Noida
2. Mr. Abhishek Gupta
Assistant Manager, BSNL, Ghaziabad
3. Mr. Atindra Mishra
Sr. Project Manager (Head- Project Execution)
Lemon Electronics Ltd, Greater Noida



At the end Titles of best projects were announce and they are as mentioned below –

- I Position: DESIGN AND DEVELOPMENT OF VATA, PITTA, AND KAPHA METER.
- II Position: SMART CITY MODEL WITH EFFECTIVE TRAFFIC CONGESTION SOLUTION.
- III Position: FPGA IMPLEMENTATION OF UART WITH BEST TECHNIQUE



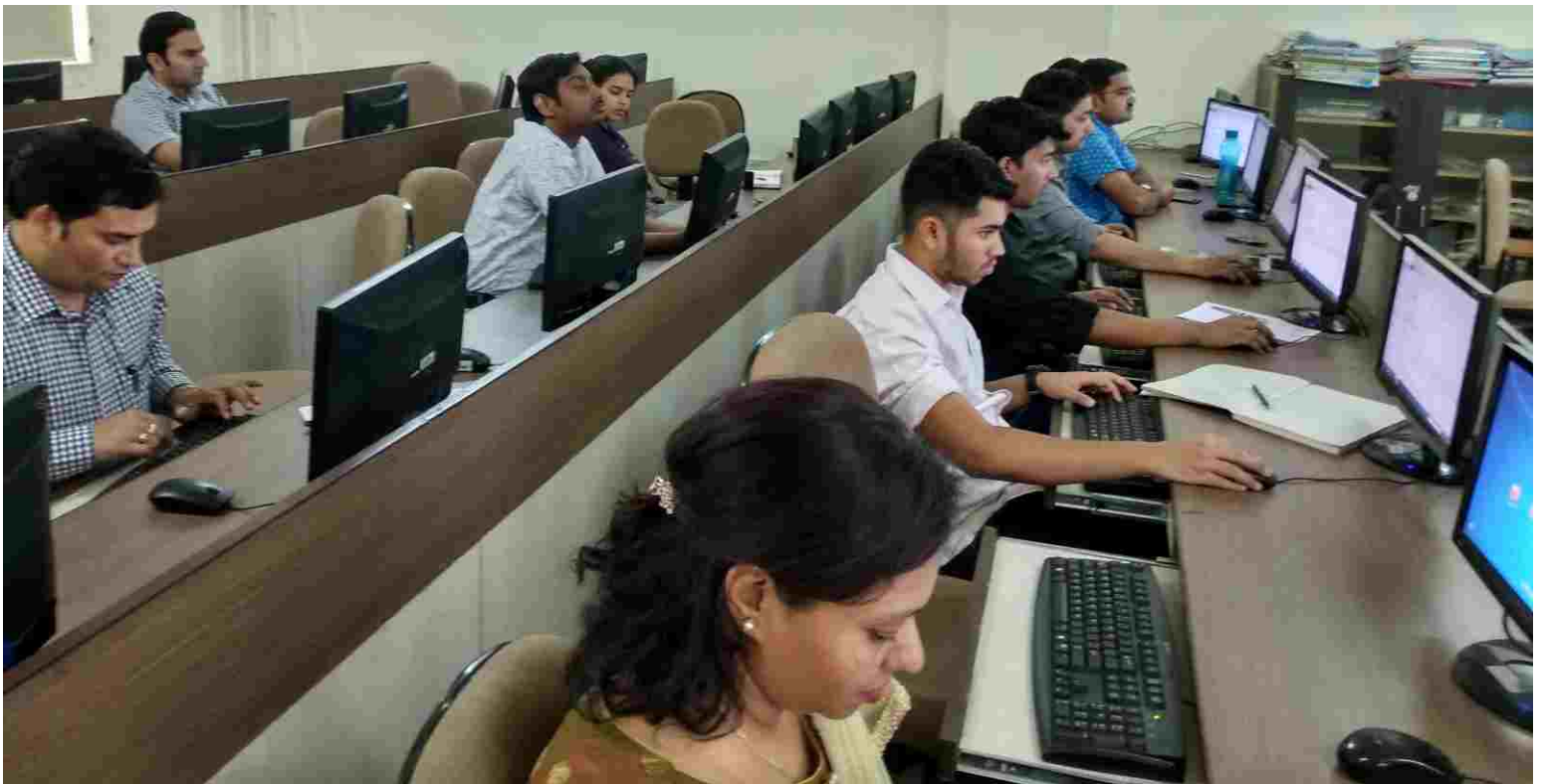
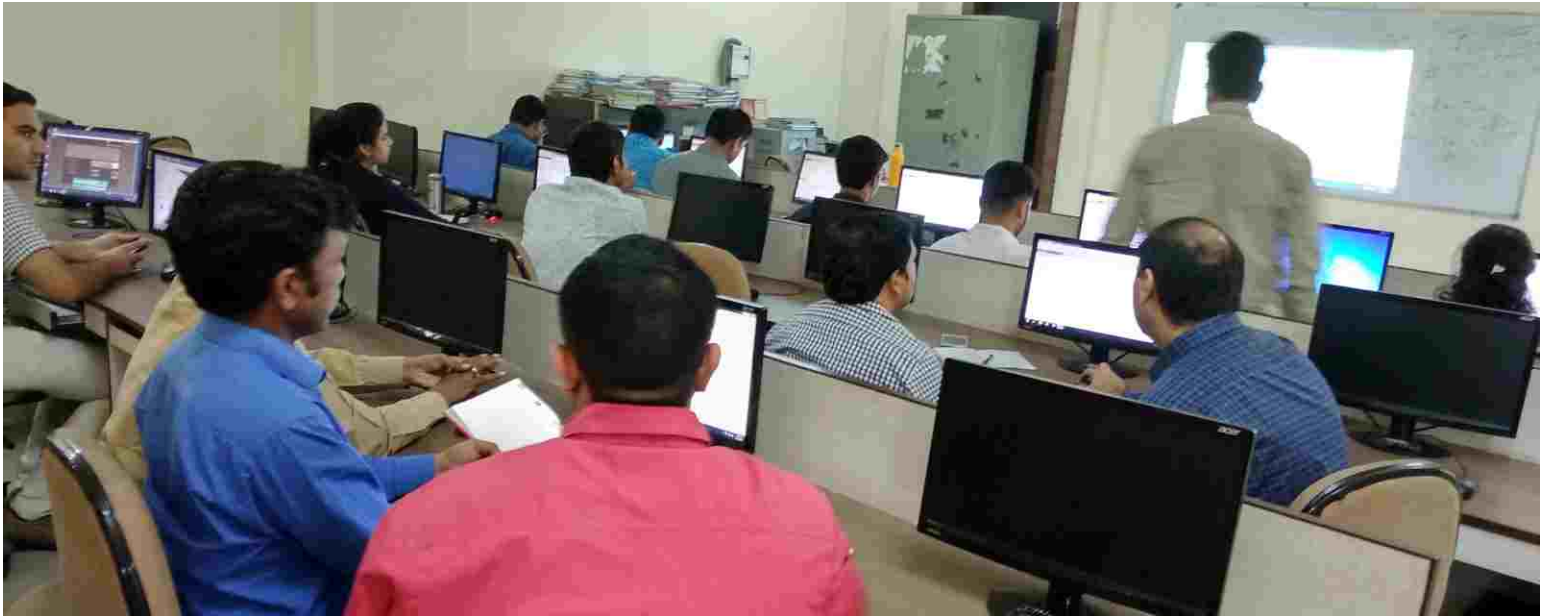


EXPERT TALK On Vivado

On 11th May 2018 an expert talk on Vivado and FPGA by Mr. Vaibhava Mishra, founder of Pine Academy, Ghaziabad, was organized by ICEIT Student Chapter, ECE Department of GLBITM, Gr. Noida. During the session he discussed about :

- Basics and design flow of Vhdl and Verilog. Demo on Xilinx- Vivado, Fpga Kits.
- Practical sessions for students.

At the end of session there was an open discussion, where students could resolve their queries.



EXPERT TALK On Software Define Radio

On 12th Jun 2018 an expert talk on Software Define Radio (SDR) by Mr. Kartik seth, Amitec Electronic Limited, was organized by, Electronics and Communication Department of GL Bajaj institute of Technology & Management, Greater Noida. During the session he discussed about:

- Basics of SDR operations, ranges of operation, Spectrum Analysis, connections of SDR with antenna & practical approach of the variations of spectrum waveforms based on the different frequencies of different networks (2G,3G,&4G) in real time analysis.
- Main goal of the session was to be helpful for the research area, where they can implement their ideas.
- Also discussed the visualization of theoretical approach can be out looked into practically for the students.

The session was effective, learnt new things, how to measure path loss, how to overcome the other problems of communication using SDR and finally concluded with queries & solutions, followed by vote of thanks by HOD sir.





SPACEX Launches World's Heaviest Communication Satellite

SPACEX sets a new record by successfully launching communication satellite "Telstar 19 Vantage" to a geostationary transfer orbit. The launch marks the heaviest payload that a Falcon 9 has carried to a GTO. The launch took place from space launch complex 40 at Cape Canaveral Air Force Station, Florida. The new generation satellite was deployed approximately 32 minutes after liftoff and Falcon 9's first stage was then recorded on the drone ship in Atlantic Ocean.

SPACEX's plans for the rocket are so ambitious, it is estimated it may be able to pull off as much as 100 lights. For now, the firm is focused on getting through the ship's NASA-required seven launches in order to get the go-ahead to have astronauts fly aboard it.

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

CLOUD BASED AI SERVICES

Artificial intelligence has so far been mainly the plaything of big tech companies like Amazon, IBM, Google and Microsoft as well as some other startups. For many other companies and parts of economy, AI systems are too expensive and too difficult to implement fully. These companies are key players, which are all working on increasing access to machine learning and artificial neural network technology, in order to make it more affordable and easy to use.

So far, Amazon dominates cloud AI with its AWS subsidiary. Recently Google announced Cloud AutoML, a suite of pre-trained systems that could make AI simpler to use. Microsoft, which has its own AI-powered cloud platform, Azure, is teaming up with Amazon to offer Gluon, an open source deep-learning library.

Sectors such as medicine, manufacturing and energy could also be transformed if they were able to implement the technology more fully, with a huge boost to economic productivity.

Pulak Anand
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
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- Student Editor** : Ananya Khare (Sec-C) IIIrd Year
Pulak Anand (Sec-C) IIInd 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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