Department of Information Technology

Message from Vice-Chairman, GL BAJAJ

Many congratulations to the department of Information Technology for their ardent efforts in bringing out another departmental magazine. Needless to say that along with various other factors proper communication too, plays a vital role in the development of any organization. I am sure that this departmental magazine will mirror the efforts of the department and will improve communication amongst GLBians and external stakeholders. I am confident that the magazine will give impetus to research culture among students with emphasis on entrepreneurship.

Message from Director, GLBITM

At the outset, I convey my good wishes to department of Information Technology, for their efforts in publishing a magazine with the commitment to offering readers a mix of newsworthy and thought provoking articles covering technology and other aspects. I am sure this will reflect institution commitment to open discourse and would a snapshot of various activities and achievements made by the department. I am confident that the magazine will give impetus to the culture of creativeness among students with emphasis on innovative learning.

Message from HOD-IT

It's a matter of a great honour that IT department is publishing a magazine. The idea of updating the faculty and students with the current affairs of the department is creditable. It gives me immense pride to know that our students possess immense potential and I am hopeful that the achievements of various students mentioned in this magazine will also inspire other students to excel in their lives, and for that they need to have vision in lives and determination to achieve it. An excellent job has been done by the Department Editorial Board in planning the magazine and publishing it. I extend my best wishes to the entire team for its future endeavours.

Message from Editor

I heartily welcome all the readers. It is a matter of immense pleasure and high honour to present before you the 2nd issue of first volume of Department Magazine. The Department pioneered this avenue in the family of GL Bajaj. With all these words I welcome all readers to this issue of magazine of Information Technology, "Insight IT".

VISION

To develop competent IT professionals catering to the needs of Industry and Society in a Global perspective.

MISSION

To attain academic & professional excellence with collective efforts of all stake holders through**:**

M1: Dissemination of basic concepts and analytical skills.

M2: Exposure to new tools in the area of Information technology.

M3: Effective interaction with industry for better employability.

M4: Inculcating values and professional ethics with social responsibility.

PROGRAM EDUCATIONAL OBJECTIVES(PEO'S)

PEO1: To provide students a strong foundation in mathematical and IT fundamentals with emphasis on different programming languages/ platforms.

PEO2: To prepare students with a strong foundation in IT tools and analytical skills.

PEO3: To analyze, design and develop efficient and cost effective IT solutions for society.

PEO4: To become a successful professional in software industry with leadership quality and value.

PEO5: To provide a supportive academic environment and guidance for life-long learning.

PROGRAM SPECIFIC OUTCOMES(PSO'S)

PSO 1: An ability to design and development an application/ product that efficiently utilized system software and hardware to Cover current user requirement in socially and economically form.

PSO 2: To apply and acquire knowledge of computer network in implementation of secure data communication and reliable Network system.

PSO 3: An ability to design and implement knowledge based discovery, machine based learning by using the concept of DBMS, soft computing, neural network, image processing and pattern recognition etc.

PSO 4: An ability to design and develop mobile based applications which uses the concepts of latest application system development technologies.

Department of Information Technology

PROGRAM OUTCOMES (PO'S)

Students of this Program are expected to demonstrate:

1. **Engineering Knowledge:** An ability to apply the knowledge of mathematics, science, and engineering in the field of Information Technology for the solution of engineering problems.

2. **Problem Analysis**: Ability to Identify, formulates, review research literature and analyse complex engineering problems reaching substantiated conclusions using first principles mathematics, natural science and engineering science.

3. **Design/ development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. **Conduct investigations of complex problems**: 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**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

6. **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. **Environment and sustainability**: An ability to design a computer system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, health and safety, manufacturability, and sustainability.

8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication**: 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**: Project management techniques and teamwork necessary for successful information engineering technologies, system designs and implementations, and the effective use of communication skills to prepare technical reports, and presentations.

12. **Life-long journey**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Department of Information Technology

OUR ACADEMIC ACHIVEMENTS

VERTICALS OF DEPARTMENT

Toppers	Percentage
Sugandha Biswas(4th Year)	85.58
Richa Kumari(3rd Year)	79.40
Pranav Kashyap(2nd Year)	85.10

Verticals	Coordinator
General Software Products	Dr. P.C.Vashist
Computer Network	Dr. Arun Pratap Srivastava
Artificial Intelligence	Dr. Pushpa Chaudhary
Mobile Applications	Mr. Anmol Kumar

CONFERENCES/WORKSHOP/EVENTS

- Department of Information technology has organised an Expert Lecture on "Advance Computer Network" by Prof. Ashutosh Dixit from YMCA Faridabad on 3rd January 2018 on advance concepts in Computer network that is applications and functioning of various layers of OSI model, Ethernet, cryptography.

- A one-day workshop on Sales force consulting for Non-Profits was organised by Department of Information Technology on 24th January 2018. All the 3rd Year students of Information Technology participated in this workshop.

- On 16th March 2018 IT department has organised one day workshop on "BIG DATA HADOOP" for 2nd and 3rd year students. The workshop was conducted by Mr. Manish Kumar, Gen. Manager of KVCH – IBM Business Partner.

- The Department of IT organised an expert lecture on 13th April 2017 on Emerging Trends in Information Technology by Prof. Anshuman Tripathi, Head of Consulting, America.

- On 14th April 2017 an Expert talk was organised on Emerging Trends in Information Technology by Dr. Neeraj Sharma, advisor, Department of Science and Technology, New Delhi. He discussed about internet of things (IoT), what platform architecture should be selected primarily to cope with soaring volume of data, cloud computing and its various categories like SaaS, PaaS, IaaS, data security, analytics.

- The Department of Information Technology, GL Bajaj Institute of Technology & Management, has started an ACM student chapter. The vision of this chapter is to establish it a beacon which would enable engineering students to go head to head with the brilliant minds of the IT industry on April 20th-21th 2018.

CULTURAL EVENTS

- Faculty, Staff and student of GLBITM assembled in lush green playground of GL Bajaj campus on the occasion of International Yoga day on 21st June 2018. On this day, the GL Bajaj family did a lot of asana that promises a fit body and sound mind.

- On 8th June 2018, GLBITM organized a Nukkad Natak presented by members of Sukhmanch Theatre. The theme for the Nukkad Natak was to create awareness on **"violence against women"**.

- A one-day Eye Care Camp was organised by Department of Information Technology on 24thFebruary 2018. This camp was sponsored by Dr. Pratima S. Raj who works at Eye -Q Hospital, Gurugram.

- A chess competition by IT department was organised as an event on sports day on 26th February 2017. Students from various departments participated in full enthusiasm.

- The Department has celebrated Holi with full zeal on 28th February 2018. Our department celebrate all the festivals together with full fun and zeal.

- The Department of IT organised Bon Voyage 2k18, farewell for 2014-2018 batch on 4th May 2018. The farewell is an occasion for final year students where they cherish their all memories of the college with their friends and teachers.

CRUNCHING THE NUMBERS (PLACEMENTS)

The Department of IT contribute largely towards the enhancement of employability skills of students. A large number of students have been placed in many reputed companies. Some of the best companies are:

1. Tech Mahindra
2. CDK Global
3. TCS
4. Samsung R&D Institute India
5. Capgemini
6. IBM
7. Sapient
8. United Health Group

INDUSTRIAL VISIT

- Students of 3rd year IT Department visited Barclays Noida on 30th January 2018 where they were exposed to the working process of Data Analytics Tool used in company for process the data of investment and banking sectors.

- Students of IT department visited at Centre of E-Governance (Ministry of Electronics and IT) on 27th February 2018.

FACULTY ACHIEVEMENTS

- Two papers have been accepted in ICACCT 2018 (Springer Publication) at Delhi University by **Dr. Ajay Sikandar.**

- Best faculty mentor award by Rotaract club to **Ms. Neha Tyagi.**

STUDENTS ACHIEVEMENTS

Information Technology students' Rahul Chugh and Sarthak Verma received KPIT Inspirational Innovation Award and won "**4th place at Smart India Hackathon**" under Ministry of Agriculture and Farmers Welfare for developing a solution for Farmers so that they do not have to burn the wheat stubble in farms and help the government bodies to monitor the farms where stubble was being burned.

INFORMATION TECHNOLOGY

What're activities of Obama today
sitting in India I know.
Electronics media worked for me
to make the information flow.

Guided or unguided transmission,
I say through wire or the air.
Transmitted so much vast and fast,
detailed facts are flared.

There was a time,
we had to wait weeks together;
To get news about friends
or receive their letters.

Progress of information technology
how has changed the life.
Within seconds we know
all about the world that thrives.

It is not like that we always have pros.
Once the link of net was broken,
I could not check my mail in time
and missed crucial date that was open.

Few time back I got an anonymous mail
informing that I have won a great prize.
Further communications disappointed me,
as found it fake, to my surprise.

OUR FACULTY MEMBERS

OUR PATRONS

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