




# Department of Information Technology

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## Message from Vice-Chairman, GLBITM

Congratulations to the Information Technology department for their dedicated work in producing the departmental magazine. Needless to say, efficient communication, in addition to several other factors, plays a critical part in the success of any firm. I am confident that this departmental magazine will reflect the department's work and improve communication among GLBians. I am convinced that the magazine will encourage students to engage in research, with a focus on entrepreneurship.



**Mr. Pankaj Agarwal**  
(Vice Chairman)

## Message from Director, GLBITM



**Dr. Rajeev Agrawal**  
(Director)

To begin, I express my gratitude to the Department of Information Technology for their efforts in publishing a magazine dedicated to providing readers with a mix of timely and thought-provoking articles on technology and other topics. I am confident that this will reflect the institution's dedication to open discourse and will provide a glimpse of the department's varied activities and accomplishments. I am convinced that the magazine will encourage students to be more creative, with an emphasis on innovative learning. For their efforts, I express my gratitude to the dedicated staff and their team.

## Message from HOD-IT

The concept that our department is publishing a magazine is a wonderful honor. The idea of keeping professors and students up to date on departmental happenings is commendable. It gives me great pleasure to know that our kids have great potential, and I am hopeful that their achievements will encourage other students to reach their goals, which will require them to have a clear vision and the determination to follow through. The Department Editorial Board has done an outstanding job developing and publishing the magazine. I wish the entire crew the best of luck in their future endeavors.



**Dr. P.C Vashist**  
(HOD – IT)

## Technical Activities

### Dr. Abdul Kalam Technical, Literary and Management Fest

Department of Information Technology, GL Bajaj Institute of Technology & Management hosted one of the flagship events of Dr. A.P.J. Abdul Kalam Technical University Uttar Pradesh, Lucknow on 30th and 31st January 2019. The department hosted the event at a zonal level covering all the colleges of the region of Noida and Greater Noida affiliated to AKTU University. External judges from different colleges had visited to judge the event.



Dr. A.P.J. Abdul Kalam Technical University,  
Uttar Pradesh, Lucknow

**GL BAJAJ**  
Institute of Technology & Management  
**FIND YOUR SPARK**

**Dr. Abdul Kalam Technical, Literary and Management  
Fest 2018-19  
(ZONAL LEVEL)  
30-31 January, 2019**

**Free Registration**  
State Level opportunity  
for each event's winner

Contact for Registration:  
Mrs. Arpana Mishra - 9911911844  
Mr. Sumit Wadhwa - 8178734658  
Mr. Mahesh Kumar Singh - 9411893834

**Events**

- Check Your Knowledge
- Bridge Krift
- Robo War
- Business Plan
- Just a Minute
- Frugal Engineering (Jugad)
- Coding Contest
- Debate English/Hindi
- Technical Poster
- Robo Race

Organized by: Department of Information Technology  
G.L. Bajaj Institute of Technology & Management, Greater Noida (U.P.)

FOR REGISTRATION CLICK HERE [https://docs.google.com/forms/d/1F4pQdSL5uAZD0gYv8KJ\\_AAP3uSp8C3pJL1d9pWZ4ccu8B1Vd0r7ee60m7Yw-88u498m1](https://docs.google.com/forms/d/1F4pQdSL5uAZD0gYv8KJ_AAP3uSp8C3pJL1d9pWZ4ccu8B1Vd0r7ee60m7Yw-88u498m1)

## List of Participating Colleges and Number of Participants

Sr. No.	Name of the Participating College	College Code	No. of Participants		
			Boys	Girls	Total
1.	G.L Bajaj Institute of Technology and Management, Greater Noida	192	175	42	217
2.	Dronacharya Group of Institution, Greater Noida	230	51	36	87
3.	United college of engineering and Research, Greater Noida	193	4	0	4
4.	Galgotia College of Engineering and Technology, Greater Noida	097	20	5	25
5.	IEC college of engineering and technology, Greater Noida	090	8	5	13
6.	Lloyd institute of management and technology, Greater Noida		1	0	1
7.	JSS Academy Of Technical Education, Noida	091	8	2	10
8.	GNIOT, Greater Noida	132	4	0	4
9.	Skyline Institute of Engineering and Technology, Greater Noida	153	4	2	6
10.	Mangalmay Institute of Engineering and Technology, Greater Noida	786	3	2	5
11.	NIET, greater Noida	133	4	4	8
12.	Accurate Institute of Management and Technology, Gr. Noida	225	2	5	7
13.	IILM college of engineering and technology, Greater Noida	150	11	4	15
<b>Total</b>			<b>295</b>	<b>107</b>	<b>402</b>

## Details of Winners (Gold Medalist)

Sr. No.	Name of Winning College	College Code	No. of Winners (Gold Medalist)		
			Boys	Girls	Total
1.	G.L Bajaj Institute of Technology and Management, Greater Noida <b>(Bridge Kriti)</b>	192	2	0	2
2.	G.L Bajaj Institute of Technology and Management, Greater Noida <b>(Debate)</b>	192	1	1	2
3.	Dronacharya Group of Institution <b>(ROBO RACE)</b>	230	4	0	4
4.	G.L Bajaj Institute of Technology and Management, Greater Noida <b>(ROBO WAR)</b>	192	2	0	2
5.	Dronacharya Group of Institution <b>(TECHNICAL POSTER )</b>	230	1	1	2
6.	G.L Bajaj Institute of Technology and Management, Greater Noida <b>(CHECK YOUR KNOWLEDGE)</b>	192	2	0	2
7.	Dronacharya Group of Institution <b>(Frugal Engineering)</b>	230	3	0	3
8.	G.L Bajaj Institute of Technology and Management, Greater Noida <b>(Just a Minute (JAM))</b>	192	0	1	1
9.	G.L Bajaj Institute of Technology and Management, Greater Noida <b>(Business Plan)</b>	192	1	0	1
10.	G.L Bajaj Institute of Technology and Management, Greater Noida <b>(Coding Contest)</b>	192	2	0	2
<b>Total</b>			<b>18</b>	<b>3</b>	<b>21</b>

## Details of Winners (Gold Medalist)



## Print Media Coverage

# देशबन्धु

Dt. 02/02/2019 - Pg. No. 6

**समापन** जीएल. बजाज संस्थान में दो दिवसीय एकेटीयू, टेक्निकल प्रोग्राम का हुआ समापन

## टेक्निकल लिट्रेरी फेस्ट में विद्यार्थियों ने किया प्रतिभा का प्रदर्शन

जेटर नोएडा, 1 फरवरी (देशबन्धु)। जीएल बजाज संस्थान में दो दिवसीय एकेटीयू, टेक्निकल प्रोग्राम का समापन हुआ। एकेटीयू द्वारा आयोजित यह जीव लेवल का कार्यक्रम 30 जेटर 31 जनवरी को समाप्त गया। जेटर, जेटर नोएडा के सभी कॉलेजों में से जीएल बजाज संस्थान को एकेटीयू द्वारा इन कार्यक्रम का आयोजन करने के लिए चुना गया। कार्यक्रम में ब्रिजकृति, बिजनेस प्लान, टेबोरेस, रोबोकार और लगभग 400 प्रतिभागियों का भाग लेना था। कार्यक्रम की सुरुवात डॉ. राजीव अग्रवाल एवं डॉ. पीसी, विवेक से शीघ्र प्रस्तावना के साथ की।

एकेटीयू से अक्टूबर के तौर पर अनुभव सभी उपस्थित थे। यहाँ विभिन्न प्रतियोगिताओं के लिए डॉ. लक्ष्मण गुप्त, जीएनओआईटी-ब्रिजकृति, राज देव सिंघानी विजिनेस प्लान, प्रो. रेवती रावत - एनटीपीसी-टेक्निकल पोस्टर, प्रो. सुखदेव, जीएसएसएस कॉलेज एमएस, अनीता मुदगल, आईटीएस, एनिसाकाद-बुगाह आदि के लिए जजेस के तौर पर मौजूद थे। 30-31 जनवरी को टेक्निकल, पोस्टर और वाट-विषय प्रतियोगिता जैसी अन्य प्रतियोगिताएं कराई जाएंगी। जेटर, जेटर नोएडा क्षेत्र के लगभग 30 कॉलेजों के 400 छात्र-छात्राओं ने रजिस्ट्रेशन कराया। जेस प्रतियोगिता में प्रथम स्थान पर पूर्णिया, जीएल बजाज संस्थान एवं द्वितीय स्थान मोहित, जीएल बजाज संस्थान और तृतीय स्थान कांठिक, जीओईटी पर रहे। बिजनेस प्लान प्रतियोगिता में

एवं कापिल, दोगाचार्य इजी, कलिन व तृतीय स्थान लजु व दिनेश कर्की, जीएल बजाज संस्थान पर रहे। रोबो कार प्रतियोगिता में प्रथम स्थान पर दोगाचार्य इजी, कॉलेज की टीम द्वितीय स्थान एनआईटी, जेटर नोएडा की टीम एवं तृतीय स्थान जीएल बजाज संस्थान, जेटर नोएडा की टीम पर रहे।

**व्यवसायिक क्षेत्रों के नई चुनौतियों विषय पर हुई पैनल चर्चा**  
जेटर नोएडा। जीएल बजाज इंस्टीट्यूट ऑफ मैनेजमेंट एण्ड बिजनेस प्रोमोशन लैण्डमार्क आफ कॉन्फ्रेंस एंड कैंटीन पर कार्यक्रम पर पैनल चर्चा का आयोजन किया गया। पैनल चर्चा में शामिल पैनल विषयों का लेख वाली, डॉ.प्रोफेसर-सत्यव्रता, कन्वेंट्रिस, गुडगांव, पुरीत रमन, संस्थापक व निदेशक, प्राविबद्धम प्रोथ प्रॉडि, नई दिल्ली, अर्जुन वर्मा, हेड-बिजनेस स्ट्रेटजी, टाइम्स ऑफ इण्डिया, नई दिल्ली, प्रवीण कुमार, डॉ.प्रोफेसर-एससहाय साहय च्यासेय, नई दिल्ली के अतिरिक्त सचिव, चक्रवर्ती, डॉ.प्रोफेसर आरु मांभोटिण एण्ड असाइन इन्वेजमेन्ट, कन्वेंट्रिस, गुडगांव, का संस्थान ने स्वागत किया।

# दैनिक जागरण

**जागरण सिटी**  
ग्रेटर नोएडा

Dt. 02/02/2019 - Pg. No.25(III)

## टेक्निकल फेस्ट का आयोजन किया

जास, ग्रेटर नोएडा: डॉ. एपीजे अब्दुल कलाम तकनीकी विधि के तत्वाधान में टेक्निकल फेस्ट का आयोजन नॉलेज पार्क स्थित जीएल बजाज कॉलेज में किया गया। फेस्ट में विभिन्न कॉलेजों की टीमों ने हिस्सा लिया। जीत दर्ज करने वाली टीमों को पुरस्कृत किया गया। दो दिवसीय फेस्ट के लिए विभिन्न कॉलेजों के 400 विद्यार्थियों ने पंजीकरण कराया। फेस्ट में ब्रिज कृति, बिजनेस प्लान, रोबो रेस, रोबो वार सहित अन्य प्रतियोगिताएं हुई। प्रतियोगिता के जज के रूप में अनुज शर्मा, डा. तरुण गुप्ता, राजदेव तिवारी, रेवती रावत, प्रो. सुखदेव, अनीता मुदगल मौजूद थे। जेस प्रतियोगिता में प्रथम स्थान पर जीएल बजाज कॉलेज की पूर्णिया व द्वितीय स्थान पर मोहित रहे।

## New Technology Trends

### Augmented Analytics

This trend represents another stride for [big data](#), by combining it with artificial intelligence. Using [machine learning](#) (automated learning), it will transform the development, sharing, and consumption of data analysis. It is anticipated that the capabilities of augmented analytics will soon be commonly adopted not only to work with data, but also to implement in-house business applications related to human resources, finance, sales, marketing, and customer support – all with the aim to **optimize decisions by using deep data analysis**.



### Autonomous Devices

In respect to the previous point **robots, drones, and autonomous vehicles** are some of the innovations in the category the consulting firm Gartner labels “Autonomous Things” defined as the use of [artificial intelligence](#) to automate functions that were previously performed by people. This trend goes further than mere automation using rigid programming models, because AI is now being implemented to develop advanced behavior, interacting in a more natural way with the environment and its users.



## Digital Twins

A digital twin is a virtual replica of a real-world system or entity. Gartner predicts that there will be more than 20 billion sensors connected to end points by 2020, but the consulting firm goes on to point out that there will also be digital twins for thousands upon thousands of these solutions, with the express purpose of **monitoring their behavior**. Initially, organizations will implement these replicas, which will continue to be developed over time, improving their ability to compile and visualize the right data, make improvements, and respond effectively to business objectives.



## Blockchain

Blockchain technology is another topic that frequently appears on these end of year lists. It has now broken free from an exclusive association with the world of cryptocurrencies; its usefulness has been proven in other areas. In 2019 we will witness many blockchain projects get off the ground as they try to address challenges that still face the technology in different fields like banking and insurance. It will also be a decisive year for the roll-out of [decentralized organizations](#) that work with [intelligent contracts](#).

## Achievement of IT Department

### Year wise topper list

#### Year wise topper list

7<sup>th</sup> Sem 1<sup>st</sup> Topper: SOUMYA GARG (1519213111)

7<sup>th</sup> Sem 2<sup>nd</sup> Topper: PRANAV KASHYAP (1519231066)

5<sup>th</sup> Sem 1<sup>st</sup> Topper: ANMOL PANDEY (1619213021)

5<sup>th</sup> Sem 2<sup>nd</sup> Topper: RIDHIMA KAPOOR (1619213078)

3<sup>rd</sup> Sem 1<sup>st</sup> Toppers: ANKIT RAI (1719213015)

RITI MISHRA (1719213085)

3<sup>rd</sup> Sem 2<sup>nd</sup> Topper: DIVYANSHI SINGH (1719213045)

## Placement Information



### Placement Information

Year	No. of Students	No. of Eligible Students	No. of Placed Students	Highest Package	Average Package	Placement %	No. of offers
2017-21	123	105	85	14.95 L/Annum	5.31 L/A	80.95	231*
2016-20	124	103	87	8 L/Annum	3.8 L/A	84.47	101
2015-19	121	115	105	13 L/Annum	3.5 L/A	92.17	120
2014-18	101	91	79	7 L/Annum	3.5 L/A	86.81	102

## Placement Information

### Placement in CISCO



**RITU GUPTA**  
IT



**ABHINAV CHAUDHARY**  
IT

### Placement in Postman



**HIMANSHU SHARMA**

## Placement Information

### Placement in SAP LAB



ABHINAV CHAUDHARY  
IT



ASTIK DUBEY



SPARSH KEDIA



SHIVANG GUPTA



### Placement in Hashedin



ASTIK DUBEY



SHAILESH SINGH GAUTAM



SPARSH KEDIA



ABHISHEK BHARDWAJ

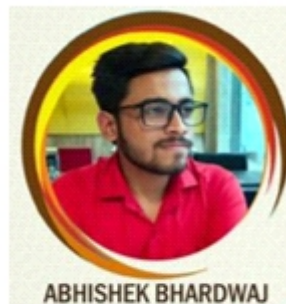


VIBHOR NAUTIYAL



## Placement Information

# Placement in



# Placement in Symphony Talent



## Star Performers



### Star Performers

2016-2020		2015-2019		2014-2018	
<u>Yash Bhatia</u>	84.8	<u>Soumya Garg</u>	83.05	Puja Mishra	79.4
<u>Anmol Pandey</u>	83.3	<u>Pranav Kashvap</u>	80.4	<u>Jyoti Prashar</u>	79.4
<u>Lovely Varshnev</u>	82.9	<u>Mayank Srivastava</u>	78.9	<u>Richa Kumari</u>	79.3



## 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 stakeholders 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

**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 the software industry with leadership quality and value.

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

## Program Outcomes (PO's)

Students of this Program are expected to demonstrate:

**PO1-** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the Solution of complex engineering problems.

**PO2-** Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3-** 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.

**PO4-** 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.

**PO5 -** Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO6 -** The Engineer and Society: Apply to reason informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7 -**Environment, and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8 -** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.



## Program Outcomes (PO's)

**PO9-** Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10-** 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.

**PO11-**Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader.

**PO12 -** Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in th

## Program-specific Outcomes

**PSO 1:** Design and develop an application/product that efficiently utilizes system software and hardware to cover current user requirements in social and economic form.

**PSO 2:** Apply and acquire knowledge of computer network in the implementation of secure data communication and reliable network system.

**PSO 3:** 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:** Design and develop mobile-based applications that use the concepts of the latest application system development technologies.

## Department of Information Technology

The Department of Information Technology at G.L. Bajaj Institute of Technology & Management was founded in 2007 with the goal of producing qualified IT professionals who can meet the needs of industry and society on a global scale. By exposing students to new IT tools and technologies, the Department hopes to help them achieve professional greatness. The flagship branch of engineering, information technology, focuses on scientific research, scientific programming, application programming, and software engineering. The Department has well-equipped laboratories, lecture halls, seminar halls, tutorial rooms, and faculty sections, all with cutting-edge technology and software. The Department has a mix of senior and junior faculty members who serve as mentors to the department's equally dedicated and hardworking students.

### From HOD's Desk

It gives me great joy to congratulate the editorial team on continuing and publishing their collective thought process as a magazine. It serves as a display of their research efforts and accomplishments, as well as a reflection of the department's creative and cultural activities. It gives me great pleasure to know that our students have enormous potential, and I am hopeful that the accomplishments of the students featured in this magazine will encourage other students to reach their goals, which will require them to have a clear vision and determination to pursue it. The Department Editorial Board has done an outstanding job developing and publishing the magazine. I send my warmest greetings.

#### PATRONS

**Dr. Ram Kishore Agarwal**  
(Chairman)

**Mr. Pankaj Agarwal**  
(Vice Chairman)

**Dr. Rajeev Agrawal**  
(Director)

**Dr. P.C Vashist**  
(HOD – IT)

#### EDITORIAL BOARD

**Dr. Pushpa Choudhary**

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 **GL BAJAJ**  
Institute of Technology & Management  
**FIND YOUR SPARK**  
Approved by AICTE & Affiliated to AKTU

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