Qubit
2020

Developing Minds...

Dr. Akhilesh Das Gupta Institute of Technology & Management

Department of Computer Science & Engineering

MRS. ALKA DAS GUPTA (HON'BLE CHAIRPERSON)

Innovation requires passionate explorers who propel transformation at the workplace. With an ever-changing global scenario, the key to success is responding to the complex and rapidly changing issues in the world of information technology. The Department of Computer Science and Engineering of ADGITM is always making efforts to justify these points.

We impart an education that is based on consciousness and we rear a breed of young minds that are bustling with self-confidence, motivation, and ever ready to take up challenges. The campus, sports, and academic facilities all bear testimony to this effort. In order to promote an internationally acceptable education, our key focus has been on overall development.

Proficiency in computing technology has become essential for modern-day managers, business leaders, entrepreneurs, and other professionals. It is a welcome development. I look forward to QUBIT 2020 setting a higher pedestal.
I wish to QUBIT editorial team a grand success!

MR. VIRAJ SAGAR DAS (HON'BLE PRESIDENT)

I feel so delighted to find that the path of creativity and innovation is consistently followed by the Department of Computer Science and Engineering. It always encourages its students to actively participate and compete in various competitions and events to show their abilities towards the new platforms of technology.

A great part of the magazine is the fact that it brings us a bouquet of topics which are of utmost relevance and interest to all. It is a great pleasure for me to get to know all the activities and achievements of the Department of Computer Science and Engineering of Dr. Akhilesh Das Gupta Institute of Technology & Management in the form of such an interactive read.

I convey my best wishes for the success of QUBIT 2020.

MR. S.N. GARG
(CEO, ADGITM)

Through the guidance of trained and inspired leaders, the students are taken across the gap of their present knowledge and experience and place data level of knowledge and competence that enables them to immediately step into the high standard of efficiency required in today's world of development.

We aim to cultivate talents by closely nurturing them throughout the whole program. We are unique in terms of our programs, academic structure, and core values. Our students are our assets. We develop our students to open them up in front of global scholarly endeavours. While the whole world is running after chances, it is essential to create your own opportunity.

PROF. (DR.) SANJAY KUMAR (DIRECTOR, ADGITM)

In his book On Becoming a Leader, Warren Bennis wrote, "No leader sets out to be a leader. People set out to live their lives, expressing themselves fully. When that expression is of value, they become leaders. So the point is not to become a leader. The point is to become yourself, to use yourself completely - all your skills, gifts, and energies - in order to make your vision manifest. You must withhold nothing. You, must, in sum, become the person you started out to be and to enjoy the process of becoming."

We at Dr. Akhilesh Das Gupta Institute of Technology & Management believe in helping students to manifest their vision completely. How do we do this? We offer a rigorous education program rooted in all forms of practice, coupled with a vast array of electives and opportunities that come from our position of being affiliated with a major university. We give you the tools to continue learning and growing long after you leave our doors; we create opportunities for internships and experiences that broaden your horizons. I take this opportunity to express the fact that every effort is made to improve the existing best services to bring out the best for the welfare of our institution and the growth of our students.

DR. ANUPAM KUMAR SHARMA (HOD, CSE)

Once an author very rightly said that "Listen to the people who love you. Believe that they are worth living for even when you don't believe it. The Educational System of ADGITM is not limited to a defined curriculum only but to develop and cheer all the spheres of people especially students associated with

ADGITM's Department of Computer Science and Engineering always works in the direction of enhancement of Entrepreneurial abilities among the students and helps them in working on those relevant projects which can act as a landmark for our developing society. This Department is a cluster of some of the great scientific research fields which when together work upon gives wings to dreams to touch the sky of reality. Our department always works in the direction of innovation and technical knowledge enhancements so as to be a prestigious discipline covering every aspect from designing, simulation, analysis, and finally to production and testing.

Dr. Akhilesh Das Gupta Institute of Technology & Management
New Delhi

Department of Computer Science & Engineering

VISION

To produce technocrats, researchers, and entrepreneurs in the field of computer science and engineering who are socially responsible.

MISSION

M1. To provide quality education in the field of computer science and engineering with emphasis on research and innovations.

M2. To inculcate professional behaviour, strong ethical values, and leadership skills.

M3. To provide a platform for promoting entrepreneurship and multidisciplinary activities.

EVENTS

Guest Lecture on "Future Trends in Network and Communications"

The Department of Computer Science & Engineering, ADGITM organized a Guest Lecture on "Future Trends in Network and Communications" on 27th January 2020.

Dr. Anand, Researcher, and Scientist in Graduate School, Duy Tan University, Da Nang Vietnam was the resource person.

The major objective of this lecture was to provide students with an understanding of trends in the Network and Communications domain. During the lecture, he highlighted the significance and provided interesting insights on various topics like IoT, Swarm Intelligence, Artificial Intelligence, Deep Learning, Mobile Ad Hoc Networks, Drones, Big Data Analytics, Computational Intelligence.

This lecture helped the students to develop a profound understanding of real applications of Machine Learning and Deep Learning. The students could easily relate the methodology of recent work in Artificial Intelligence with the other disciplines of Engineering and Business.

The event was successful, filled with a plethora of knowledge and positivity. 2nd and 3rd-year students attended the session with full enthusiasm.

Dr.Anand Nayyar (Speaker) acknowledged with Bouquet by Prof.(Dr.) Sanjay Kumar (Director) & Dr.Saurabh Gupta (Head of CSE Department)

2nd &3rd year students from the CSE department as the audience for the guest lecture

Dr. Anand Nayyar enlighting students with the presentation

EXPERT LECTURE ON "MACHINE LEARNING"

The CSE Department organised a session on August 8th 2019 to explain the significance of machine learning in the real world to 2nd & 3rd CSE Year students.

The program is aimed at enhancing the Machine Learning skills of Students. All businesses are operating in a continuously changing environment. These changes are occurring for a variety of reasons, but primarily due to technological advancements, one of which is machine learning.

During the theory session understanding of Data Science and applications of machine learning in OYO, OLA, UBER, etc. had been taught.

SESSION OUTCOMES

Challenges of machine learning and data storage were identified. Machine learning contribution to the advancement of Artificial Intelligence and Generation and Deployment of data in machine learning had been studied.

Ms. Mansi delivering lecture on ML

Students attending ML Session

Students attending ML Session

Students attending ML Session

24 Hour Hackathon, ADGITM

Date: October 9 & 10, 2019.

Venue: Lab 1, 2 & 3, 1ˢᵗ Floor, Block 4, CSE Department.

T Hacks 2.0, a 24-hour hackathon organized by the IEEE ADGITM SB in collaboration with the CSE department, was the most successful Technorax event ever.

 We received approximately 70 registrations, of which 35 were selected and invited to participate in the competition. There were 25 teams from other colleges like MAIT, NSUT, Jamia, and 10 teams from ADGITM.

Five teams were chosen after the final round of judging by DRDO and PEP Coding judges, and they were called to the stage to present their project. The top three teams were team Tech Wizards from MAIT. Deadhex from BPIT and team Fsociety from ADGITM.

Outcomes:
Students got a new experience by working 24 hours for the technology.

Students performing tasks

Projects Evaluation

Students making projects

Industrial Visit, DRDO

Date: October 11, 2019   **Venue:** SSPL, DRDO.

Mr. Sunil Sharma, Scientist 'E,' welcomed the students and explained how SSPL and MMIE fabrication works as well as the many technologies on which they are working.
Dr. Seema, the director of SSPL, addressed the students about how they can work at SSPL and the importance of their work.

Then, Dr. Akhilesh Pandey, Scientist 'E' took the students to the characterization lab and told them about the equipment used and their basic functioning which is also discussed.
Students visited the MOCVD lab and understood the methods used there. Dr. Rajesh Bag, Scientist 'E' told the students about GaN material.

Finally, students met Dr. R. S. Rawal, Scientist 'G', Divisional Officer, SSPL and he motivated them that how computer science students are required in the lab and what all they can do tell help the nation by working in DRDO.

Activities Done in Theory and Practical Session:

- Introduction to different semiconductor devices.
- Mr. Sunil Sharma took the students to the lab once they had put on the protective suits since the lab uses a lot of radiation.

Outcomes:
Students were motivated that how computer science students are required in the lab and what all they can do tell help the nation by working in DRDO.

Students leaving from college for visit

Students attending session by Mr. Sunil, DRDO

Outside MMIC Fabrication Lab, DRDO

Session by Dr. Seema, Director SSPL.

The Web Development Bootcamp 2020

CSE Department of ADGITM conducted a week long Web Development Bootcamp from 1st to 11th, January 2020. The bootcamp focused on trending technologies like HTML, CSS, Bootstrap, Django, DRF Wordpress, and WooCommerce and benefited all the students from various colleges.

The inspiring words of the chief guests, Mr. Saurabh Jain, Vice President, Paytm, and Ms. Mridu Bhatnagar, SDE, Golbibo boosted the spirit of the students, who shared their insights of growing as Indian startups and addressed students on the right skill set and attitude required to become a successful engineer.

Felicitating Mr. Saurabh Jain VP paytm

Day 1 session

Day 1: Inauguration Ceremony : Address by Director Sir Mr. Sanjay, CEO Sir Shri S.N. Garg and interactive session with the chief guests Mr. Saurabh Jain, Vice President, Paytm.

Day 2 and 3: Session on Frontend and student learned to developed website UI/UX

Day 4 and 5: Session on Backend - student learned to built APIs and server using Django

Day 6 and 7: Building E-Commerce websites with WordPress

Day 8: Competition-students were given 3 tasks of building websites along with an interactive session by Ms. Mridu Bhatnagar, SDE, Golbibo.

Alumni Talk

The CSE Department organised a session on October 4^{th,} 2019 at the auditorium to discuss the experiences in ADGITM and in the corporate world & guide the students wide career options after B.Tech.

The session was delivered by Varun Vashishth, Chief Product Manager,Max Life Insurance, 2004-2008 Batch. Abhimanyu Ahluwalia, Senior Associate, Ernst & Young Unitech, 2008-2012 Batch.

Arushee Mehan, Application Developer, Accenture, 2013-2017 Batch.

All the alumni were amazing and they focused on how one can add value additions in their resume. They also discussed different options possible after their graduation like as M.Tech. , M.S., MBA, Jobs in Delhi or outside Delhi.

During the session The students interacted with the alumni. AlsoVarun Vashishth gave students a self-assessment of social styles questionnaire to evaluate their social skills.

SESSION OUTCOMES

Students got exposure of different options after B.Tech. and they came to know about the requirement of social skills in the industries.

Alumni entering the Auditorium with College director Prof. (Dr.) Sanjay Kumar and Hod, CSE

Students answering questions provided by Mr. Varun

Alumni Talk Poster

Alumni's of the Department

Alumni's and Faculties of CSE Department