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तेजस गणक

Official Newsletter
Department of Computer Science & Engineering

Vision:

To be centre of excellence in education, research and technology transfer in the field of computer engineering and promote entrepreneurship and ethical values

Mission:

To foster an open, multidisciplinary and highly collaborative research environment for producing world-class engineers capable of providing innovative solutions to real-life problems and fulfil societal needs.



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Maharaja Agrasen Institute of Technology, Delhi

THE DEPARTMENT

HISTORY OF DEPARTMENT

The Computer Science and Engineering Department was established in the year 1999 under GGSIP University with an intake of 60 students. The intake was subsequently increased to 120 and at present has intake of 240 students.

Department is committed to achieve excellence in technical education & research and assesses the success of its programs using the highest standards of quality. A group of well qualified, experienced and highly motivated faculty is engaged in providing quality education to the future computer engineer and prepare the students in wider field of Computer Engineering to take up challenging jobs in the area of Systems Software Development, Application Software Development and Computer Networking. Since its inception, the department has been the first choice of the students seeking admission in the private Engineering Institutes under GGSIP University. Graduates from the department are heavily recruited by both academia and industry, and ex-students of the department occupy top positions in both academia and industry all over the world.

DEPARTMENT

INTAKE

FIRST SHIFT – 180

SECOND SHIFT - 60



FACULTY UPDATES

Faculty members pursuing Ph.D.

1. Mr. Sandeep Tayal
2. Mr. Saurabh Rastogi
3. Mr. Ashish Sharma
4. Ms. Sudha Narang
5. Ms. Ruchi Goel
6. Ms. Divya Arora
7. Mr. Yogesh Sharma
8. Ms. Ankita Gupta
9. Ms. Neetu Garg
10. Mr. Moolchand Sharma
11. Ms. Deepti Gupta

MESSAGE FROM THE HEAD

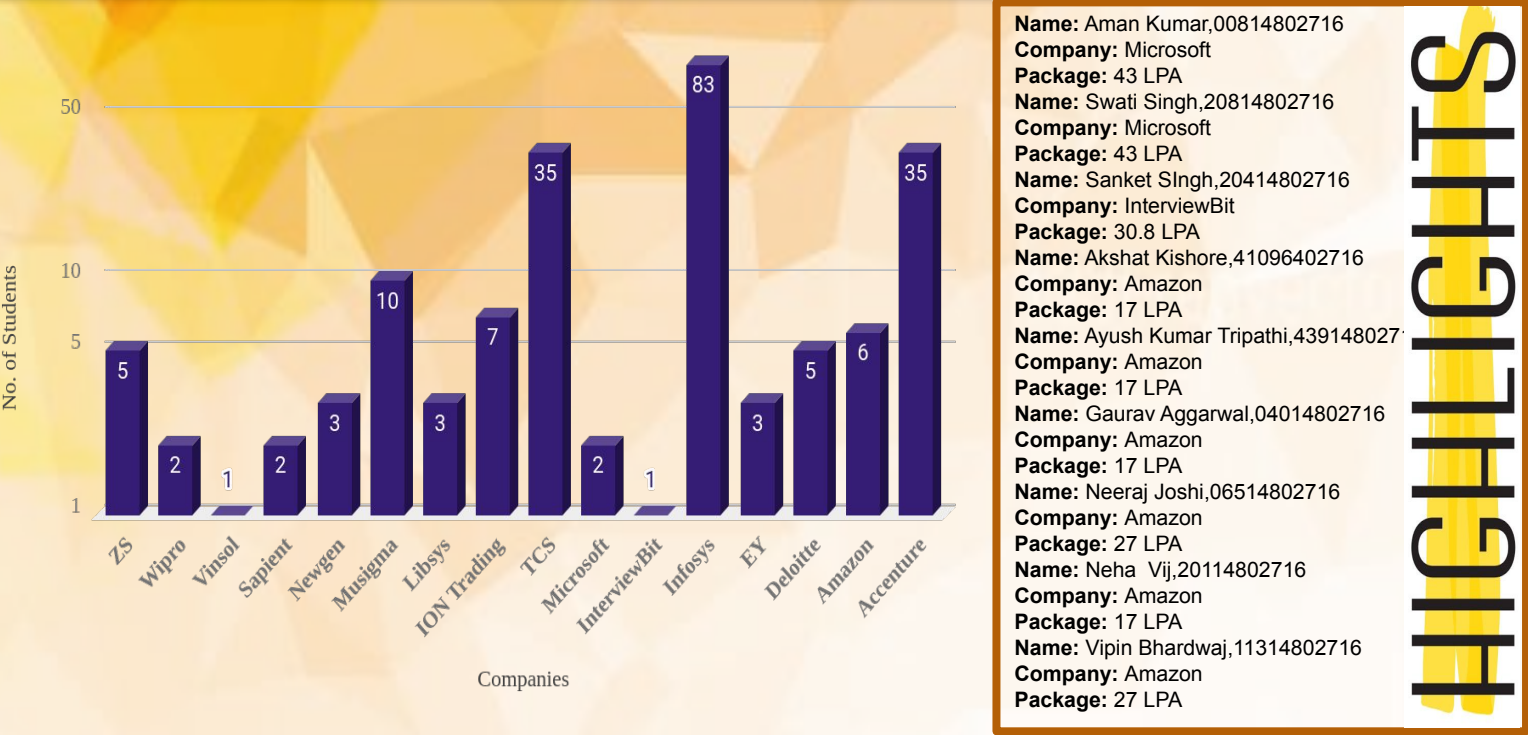


Department of Computer Science & Engineering commits to work towards developing Engineers with a rich blend of competent, technical, managerial and social skills and contribute to nation building. Department places emphasis on all the important aspects of computers such as Computer Networks, Mobile Communication, Algorithm Design, Operating System, Advanced Database Systems, Theory of Computation, Computer Graphics and many more. Department takes the initiative to improve the soft skills, analytical capabilities and verbal communication of the students so that they can face the competition in the corporate world confidently. To meet the objectives, department pays special emphasis

on teaching and hands on practical work. Students exhibit their innovative ideas, skills and potentials as final year projects and have won many awards at University level. The excellent infrastructure, experienced team of faculty dedicates to strengthen effective teaching learning process ensuring quality education.

We believe that this approach to teaching-learning, coupled with practical experience gained during Industrial Training in reputed organizations, equips our students to handle the challenges posed by the IT industry. Students of Computer Science and Engineering are placed with top IT companies. We as a team resolve to take the Department to heights of success and glory and prepare for the forthcoming challenges.

Prof. Namita Gupta
HOD CSE



GGSIPO RESULTS (DECEMBER 2019)

RESULTS AWAITED

IOSD-MAIT organized its **orientation** session with the most overwhelming audience. Special thanks to **Prof. Namita Gupta**, HOD-CSE department, **Mrs. Garima Gupta**, Faculty Advisor, IOSD-MAIT for encouraging the students with their presence and support.

Senior-junior Interaction (Sept. 11)
IOSD held a brief discussion over the different technologies and their future scope and how students can choose the best among the various options available to them.

Github and Hacktober Session (Oct. 4)
Hacktoberfest is a month long virtual festival event to celebrate open source contributions. It is the easiest way to get into open source. IOSD-MAIT hosted a github and Hacktober session to promote open source contributions and mentored many students to get into open source. Goodies and swags were also distributed among the students.

Local HackDay (Oct. 12)
Over the course of 12 hours, attendees experienced a series of workshops where they learnt skills such as publishing their first website using AWS, sending their first SMS with Twilio, and building their first game in Unity.

Quarter Challenge (Oct. 13)
IOSD presented a one-of-a-kind, Quarterly Challenge where you can compete in a real-time interview environment and hone your skills. This challenge had 4 programming questions and all you have got is 120 minutes. The purpose of this challenge was to help beginners hone their coding skills in the language of their choice.

Google Explore ML (Nov. 14)
Predicting the future isn't magic, it's Machine Learning! Students got an opportunity to learn with Google AI - the Explore ML Workshop. Students got trained throughout various ML algorithms and also the mathematics behind them.



Students from Department of Computer Science and Engineering, MAIT showed their mettle and brought laurels by winning the **HackWithInfy** Hackathon in 2019.

1st Prize Winner(Rs 2 lakhs) **Harshit Singhal** -Team Leader (Enrollment No 01596402716) and 1st Runner Up (Rs 1Lakhs) **Anand Kumar Rai**- Team Leader (Enrollment No 00914802716) .

HackWithInfy is a contest for all engineering students across India who are graduating in the year 2020 to inculcate the culture of rapid problem-solving and innovative thinking from early on. It provides the perfect stepping stone for students to explore their passion for programming, and an opportunity to compete and earn a chance to work with Infosys.



SINGAPORE INDIA HACKATHON

Paras, Prerna and Siddharth (Team **ePIKAdeimology**) won award of \$2000 in **SINGAPORE INDIA HACKATHON 2019** held at IIT Madras.

The Singapore-India Hackathon, an initiative of Prime Minister Narendra Modi -- joint international hackathon between India and any other country - started on 28th September and concluded on 30th September 2019.

20 teams took part in the 36-hour long hackathon. Each team had three students from both countries for exchange of culture and ideas



Recruitment Drive

MAIT ACM Student Chapter organised a recruitment drive for core team members on 21st October , 2020. There were 30 participants for this drive which intended to fill the following vacancies in the core team:

1. Web Developers
2. Marketing Managers
3. UI Designers
4. Software Developers

All 30 students were interviewed by existing core team members for their preferred profile of interest and finally the following 8 students were shortlisted to become a part of the core team of the chapter:

1. Ishan Dhull
2. Pavitra Walia
3. Tanya Batra
4. Siddharth Redhu
5. Harshit Gupta
6. Animesh Singh
7. Abhishek Kumar
8. Manik Taneja



“Introduction to Version Control Systems”

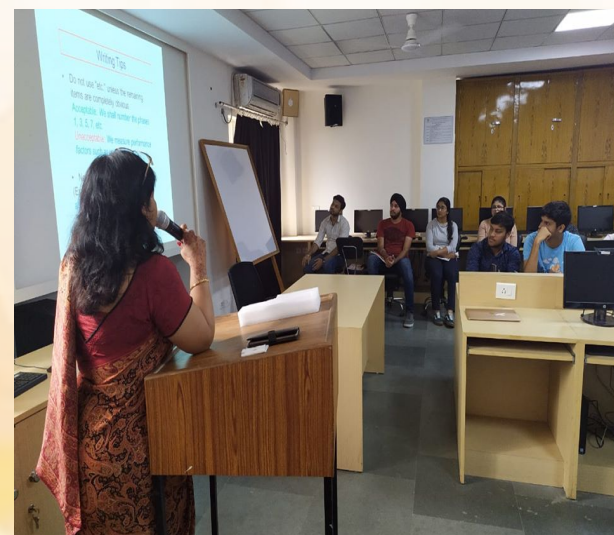
One day workshop on “Introduction of Version Control Systems “ was conducted by the TechCom Society of CSE department in association with coding blocks, Microsoft and Github from 1:00pm to 4:00pm on 19th Aug 2019 for all the students of CSE Department.

Speaker of the event was **Mr.Prateek Narang**. Around 100 students attended the workshop. Students attending the workshop got acquainted with the importance of Git and Github and also got information about Open Source events like GSoC and Outreachy. They also had hands on experience on Github. It was a very interactive workshop and students showed keen interest in Learning.



A talk on "Technical Paper Writing" by **Prof Namita Gupta** , HoD, CSE was organized by the Techcom Society of CSE Department on 18th Oct 2019 for all the students of the Department.

Talk was very Interactive and informative. All the aspects related to writing high quality research paper were discussed.



A workshop on “**HACKTOBERFEST 2019**” was organized by the TechCom Society of CSE department in association with Coding Blocks and was supported by Major League Hacking local hack day (Mike Swift) along with GitKraken, Elastic, Open Source Initiative, Google Crowdsourcing and Docker on 21st October 2019.

The speaker of the event was **Kunal Kushwaha** (GSoC 19 student and Microsoft student partner) and Sarthak Jain along with Vaibhav Bisht. The workshop started with an introduction to open source and various open-source programs that students can contribute to following a brief discussion about the Microsoft Student Partners Program as well as MLH.

“Interview Preparation”

One day workshop on “Interview Preparation” was conducted by the TechCom Society of CSE department in association with Coding Ninjas in Seminar Hall from 11:00am to 1:00pm on 3rd Aug 2019 for all the students of CSE department.

Speaker of the event was **Mr. Ankush Singhla**. Around 100 students attended the workshop. Students attending the workshop came to know how to tackle interviews and what should be one’s approach to crack it. Various coding questions were also discussed. It was a very interactive workshop as students kept on asking their queries throughout the workshop.



INDUSTRIAL VISIT

Department of Computer Science and Engineering, MAIT organised a One day Industrial Visit for Students of CSE Department to **Network Bulls**, Gurugram, Haryana on 3rd October 2019. Three faculty members (**Dr. Pooja Gupta**, **Dr. Farzil Kidwai** and **Mr Sandeep Tayal** , Assistant Professors CSE Department) visited the site along with students.

Students learned about in-depth architecture of **Cisco networking** and how networks work in the industry. A hands-on session was also conducted in the laboratory where students worked on **CISCO PACKET TRACER** and designed a basic LAN network using router, switches, access points, and devices. The workshop was very interactive and students showed a lot of interest in learning about basics of networking.



RESEARCH PAPERS

S. No.	Authors	Paper Title	Journal/Conference
1.	Krishna Choudhary, Kshitij Gupta, Rahul Chawla, Deepak Gupta, Prerna Sharma	Artificial plant optimization algorithm to detect infected leaves using machine learning	Expert Systems (Wiley), November 2019
2.	Krishna Choudhary, Kshitij Gupta, Rahul Chawla, Deepak Gupta, Prerna Sharma	Artificial Plant Optimization Algorithm to detect Heart Rate & Presence of Heart Disease using Machine Learning	Artificial Intelligence in Medicine (Elsevier), October, 2019
3.	Srishti Sahni, Ashish Khanna, Deepak Gupta	Quantum-Inspired Evolutionary Algorithms for Neural Network Weight Distribution: A Classification Model for Parkinson's Disease	Journal of Information and Organizational Science, November, 2019
4.	Bhanu Jain, Chetan Kargeti, Vinayak Gupta, Moolchand Sharma, Deepak Gupta	Detection And Diagnosis Of Skin Diseases Using Residual Neural Networks (Resnet)	International Journal of Image and Graphics, Sept 2019
5.	Shirsh Sundaram , Deepak Gupta, Ashish Khanna	Assisting students to understand mathematical graphs using virtual reality application	Chapter-3 of Advanced Computational Intelligence Techniques for Virtual Reality in Healthcare, Springer, November, 2019

MHRD's INNOVATION cell organized a two day innovative and entrepreneurship development program workshop at AICTE Headquarters in Delhi.

One student and one faculty representative from MAIT,(Gaurav Kumar CSE 3rd year and Mr. Ashish Sharma Assistant Professor) attended that workshop on 2nd and 3rd November 2019.

There were teams from around 80 Institutes across NCR. Various game activities made it more interesting . AICTE INNOVATION COUNCIL organized the event in that workshop and taught students various skills for starting entrepreneurship cell in their respective institutes.



Bridge'19

ICT Academy BRIDGE, the event that connected government policy-makers, industry experts and academic leaders, focused on the theme "Augmenting Skills, Accelerating Growth" to set an agenda for leaders to help people upskill and future-proof themselves, which is the defining challenge of our time.

Various academicians and educationists presented their ideology for bridging the gap between industry and institute aiming towards an accelerated growth path of the nation.

Prof. Namita Gupta and Mr. Ashish sharma from CSE Department attended the event on 11 December 2020..



- ★ Tesla founder **Elon Musk** has unveiled the **Cybertruck**, a bulletproof electric vehicle clad in the same kind of steel being used to make SpaceX's Starship space craft.
- ★ Intel’s claims to make **Quantum Computing** commercially viable with new chip.
- ★ Microsoft will now encrypt new SSDs with **BitLocker**.
- ★ YouTube Music replaces **Google Play Music** as **Android**'s default player.
- ★ Alibaba unveiled its new **AI** chip which will specializes in handling machine learning tasks and will be used to enhance the services of its cloud computing division.

Training / Internships

Students of 3rd and 5th semester did summer internship in year 2019 in various government and private organisations.Major companies in which they did Internship / Industrial Training are listed below:

Government	Private	
DRDO BHEL Airports Authority of India Electronics & ICT Academy AIR INDIA National Informatics Centre NITI Aayog Indian Road Safety Campaign Income Tax Department Bsnl Prasar Bharti(AIR) Bharat Electronics Limited ISRO - Indian Space Research Organization Indian Institute of Technology ICAR- National Dairy Research Institute	Cupido 3G Logic Infotech Holisol Microsoft Technology PolicyBazaar.com ICICI Prudential Kyrion Technologies HCL Technologies Tata power Distribution ltd Vendorskart PVT LTD SAIL S&P Global Market Intelligence Aptech Coding Blocks	Tech Mahindra Havells India Ltd Bharti Airtel Netmaxims HPE Cetpa infotech limited Sify Technologies Limited Northcorp software Cybrary Coding Ninja Network Bulls Central Electronics Limited Meta Design Solutions Northcorp Pvt lmt Libsys

ALUMNI FOCUS



Siddhant Gupta completed his graduation from Maharaja Agrasen Institute of Technology (MAIT) in 2015 as a Computer Science engineer with a job offer from ZS Associates through campus placements. At ZS Associates, He worked as a Technology Analyst in the pharmaceutical domain where he got the opportunity to work on SQL, ETL & data warehousing. He was able to utilize his prior experience of working on database related projects which helped him hit the ground running at ZS. His first job helped him instill work ethics required to work in the corporate environment.

Post two years at ZS, he realized that there is a need to supplement his technical skills with management education, so he decided to go for an MBA. With this thought, he appeared for CAT in 2016 and managed to achieve 96.7 percentile which helped him secure a seat in the business school at IIT Kharagpur (VGSoM, IIT Kharagpur).

He got back into college set-up with some work experience under his belt which helped him socialize and network better with my batch mates.

During his time at IIT Kharagpur, he participated in a lot of extra-curricular activities along with the regular course work. He studied subjects across different domains of management including marketing, finance, operations and analytics. However, he developed special interest in marketing and analytics. He was a member of the Consulting Club as well as the Alumni Committee at VGSoM, IIT Kharagpur. As part of the student-run Alumni Committee, he got the opportunity to organize the silver jubilee celebrations of the department which was a 3-day affair. His prior experience of being a part of the core team at Techsurge & Mridang helped him organize the event to the best of my abilities. He also won national level b-school competitions at IIT Kanpur and IIM Ranchi and managed to complete his MBA degree with a CGPA of 8.50 (out of 10) and an invaluable experience. During MBA, He also did an internship in marketing domain with Titan Company Ltd. in Bangalore during June-July 2018. The internship stint helped him remain in touch with the corporate world.

He got placed at Accenture during the campus placements at IIT Kharagpur and has been working there as a Data Science Analyst in the Risk Analytics domain since June, 2019. He was awarded the Star Performer in Quarter 4, 2019 as a token of appreciation for his work there. All this has been possible because of the skills he developed over the years during the journey which started at MAIT.

