



VOL 06, ISSUE 2
July 2019

Einstein's Corner



Inspirational quote

"I fear the day when the technology overlaps with our humanity. The world will only have a generation of idiots."

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तेजस गणक
OFFICIAL NEWSLETTER
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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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

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.



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, Advance 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.

Dr. Namita Gupta
HOD CSE

DEPARTMENT INTAKE

FIRST SHIFT – 180
SECOND SHIFT - 60

Name of the Company	No. of Students Recruited	Name of the Company	No. of Students Recruited
INFOSYS	95	NAGARRO	3
ACCENTURE	91	FIDELITY	1
WIPRO	24	EXPEDIA	1
ZS ASSOCIATES	12	CYIENT	3
TCS	12	NEWGEN	12
GLOBAL LOGIC	7	HITACHI	1
MAHINDRA COMVIVA	8	COMPRO	6
DELOITTE	3	HSBS	2
HT MEDIA	3	SAPIENT	4
ION TRADING	4	HUGSES SYSTIQUE	4
LIBSYS	3	BOSTON CONSULTING GROUP	2

HIGHLIGHTS

Name: Harshit Bisht, 03214802715
Company: Expedia
Package: 11.67 LPA

Name: Rishabh Sharma, 03496402715
Company: Fynd
Package: 10 LPA

Name: Karan Bhatia, 04014802715
Company: Sapient
Package: 10 LP

Name: Mohit Chatlani, 5514802715
Company: SAPIENT
Package: 10 LPA

Name: Divyank Karolia, 02714802715
Company: HT Media
Package: 9 LPA

Name: Sai narayanan, 14802715
Company: HT Media
Package: 9 LPA

GGSIU RESULTS (MAY 2019)

BATCH 2014-2018

Rank in GGSIPU	Rank in MAIT	Roll No.	Name	CPI
12	1	06914802715	PRABHNOOR SINGH	95.8
19	2	04496402715	SNEHIL	94.6
29	3	60614802715	CHIRANJEEV SINGH BINDRA	94.6

BATCH 2015-2019

Rank in GGSIPU	Rank in MAIT	Roll No.	Name	CPI
4	1	36214802716	SAKSHI BINDAL	95.4
6	2	20314802716	PRERNA JAIN	95.4
10	3	60514802716	RADHIKA BANSAL	95

BATCH 2016-2020

Rank in GGSIPU	Rank in MAIT	Roll No.	Name	CPI
1	1	45814802717	SIDDHANT GUPTA	100
7	2	43714802717	KETAN JUNEJA	97.1
18	3	45814802717	HIMANSHU GUPTA	96.8

BATCH 2017-2021

Rank in GGSIPU	Rank in MAIT	Roll No.	Name	CPI
1	1	07514802718	PARCHAM GUPTA	98.1
4	2	05014802718	ISHIKA	94.4
7	3	43514802718	SANJAY MAJHI	93.7

SNO	Team Name	Team Members	Roll No.	Company/ Ministry	City	Prize
1	Syzygy	Heena Garg	03314802715	Department of Atomic Energy	Nagpur	Winner (Rs One Lac)
		Aakash Chawla	00114802715			
		Abhishek Gupta	20614802715			
		Ayushi Saxena	20314802715			
		Gyan Vardhan	03014802715			
		Shachi Saini	09614802715			
2	Hack 'O' Holics	Nimisha Mittal	41696402717	Ministry of AYUSH	Kanpur	Winner (Rs One Lac)
		Deepanshu Meemroth	01614803116			
		Mansi Jain	20214802817			
		Divij Gupta	01414803117			
		Neeraj Sharma	20114803117			
3	Pika Pika	Arushi Sharma	20514803116	Sun Pharmaceuticals	Warangal	Winner (Rs One Lac)
		Bipin Kalra	01314803116			
		Siddharth Kathuria	06814803116			
		Vatsal Agarwal	07814803116			
		Yash Aggarwal	42614803116			
		Saumya Wardhan	06614803116			
4	Update 2.0	PARAS RAWAT	41514802716	DIPP	Kanpur	Winner (Rs One Lac)
		MAYURI GUPTA	40714802716			
		PIYUSH GUPTA	41714802716			
		SHUBHI JAIN	36414802716			
		YASH AGGARWAL	40214802716			
		MOHIT SONI	41914802716			
5	Ode_to_code	Perna Jain	20314802716	Orissa	Landran ,Mohali	Winner (Rs 50,000)
		Akshita Goel	35114803116			
		Nishchay Anand	40396404916			
		Anurag Sharma	01814802716			
		Jatin Gera	20714802716			
		Virender Singh	20514802716			
6	MRDOTAPP	Anmol Bansal	44514803117	Future Generali	Greater Noida	1 st Runner Up
		Ritika Tilwalia	05514802717			
		Paras Madan	42096403117			
		Manthan Keim	03714802717			
		Piyush Bansal	90214803117			
		Abhishek Maheshwari	44314802717			



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

Dr. Neeraj Garg completed his Ph.D in “Pervasive Computing” from **N.I.T., Kurukshetra** in March 2019.

Department of Computer Science and Engineering organized One day Seminar on “**Empirical Software Engineering**” sponsored by Department of Student Welfare, GGSIPU on 11th January 2019 at Maharaja Agrasen Auditorium, MAIT from 10:00 am to 4:00 pm. Seminar started with motivational talk by Prof. M.L Goyal, Vice Chairman- Academics, followed by the Speeches of Prof. Neelam Sharma, Director (MAIT), Founder Chairman Dr Nand Kishore Garg, MATES and Dr. Arvinder Kaur, Professor and Dean USIET, GGSIPU. Dr. Namita Gupta (Convener), Mr. Ashish Sharma (Co-Convener), Mr Yogesh Sharma and Ms Ruchi Goel coordinated the event.



WORKSHOPS AND SEMINARS

National Commission for Women (NCW) held a seminar on “**EMPOWERING WOMEN THROUGH ENTREPRENEURSHIP**” on the occasion of 26th Foundation Day on 31st January 2019, at “Stein Auditorium”, Indian Habitat Centre. The girls from our institute attended the session.



Two-day workshop on “**Outcome based Learning**” was organized by Department of Computer Science and Engineering for all the faculties of Maharaja Agrasen Institute of Technology on 24th and 25th April 2019.



Prof Namita Gupta, Head of the Department, CSE started the talk on designing course outcomes and discussed the importance of Bloom's Taxonomy in Outcome based Learning. Mr. Ashish Sharma, Assistant Professor, CSE discussed various case studies of Course Outcomes and requirement of Bloom's Taxonomy in outcome-based learning.



Prof Ved Nath Mathur, Head of the Department, MAE explained the Attainment sheets and its related calculations required in NBA accreditation process.

Seminar on “**Intellectual Property Rights**” was organized as a part of Faculty Development Program on “Machine Learning and its Applications” from 29th April to 4th May 2019.

Aparna Jain from **Knowledgentica** consultants is the invited speaker, she stressed upon the need of patents in academic institutions. She discussed the importance of copyrights and explained various case studies related to it.



Whole session was very interactive, wherein faculties cleared various doubts related to IPR.

INTER-INSTITUTE PROJECT COMPETITION - GGSIPU

Inter College Project competition of GGSIPU for Computer Science and Engineering Department was organized by CSE Department, Maharaja Agrasen Institute of Technology on 4th June 2019, coordinated by Professor Namita Gupta, Head of the Department, CSE, MAIT.

Final year students of all B. Tech colleges affiliated to GGSIPU participated and presented some of the best innovative projects.



INDUSTRIAL VISIT

Department of Computer Science and Engineering organised an industrial visit to “**Defence Research and Development Organisation (DRDO)**” on 15th February 2019 for the students of the Department. Mr Ashish Sharma, Assistant Professor, CSE visited the site along the students of the CSE Department. **The Director of SSPL (Solid State Physics Laboratory (SSPL) –** which is one of the laboratory under DRDO) **Ms. Seema Vinayak**, gave an insight of DRDO and SSPL. Students visited characterization laboratory and various equipment's like **Atomic Force Microscope (AFM), Optical Bench, Secondary Ion Mass Spectrometer (SIMS)**, etc. were shown to them. After this, the next laboratory, which is used for the manufacturing of semiconductor wafers was shown to the students by Dr. Soni. At the end, students were addressed by Prof. Chandra Prakash where he discussed various opportunities for the students at DRDO.



Organized By-ACM-MAIT Student Chapter

1. MAIT ACM hosted a personalized mentorship session for increasing senior - junior interaction among students on 30th Jan,2019 and to provide a platform for students to have their queries answered that are difficult to clarify online on sites like GitHub, Stack Overflow, etc. Around 10 students participated in this event.
2. MAIT ACM Student Chapter conducted its first edition of “DAYS OF HACK” – a hackathon in association with Campus Blocks MAIT at Maharaja Agrasen Institute of Technology on 7th-8th February, 2019. Prof. (Dr.) Namita Gupta, HOD, Department of Computer Science and Engineering, MAIT and Mr. Anupam Kumar, Assistant Professor, Dept. of CSE, MAIT granted their unwavering support throughout the initiative and organization phase of the hackathon. Mr. Ashish Sharma, Mr. Yogesh Sharma and Mr. Sandeep Tayal were the esteemed panel of judges who evaluated the participants on the basis of ideas, implementation, impact and presentation.



3. MAIT ACM Student Chapter in association with Campus Blocks organized Github Workshop which familiarized participants with the basics of Github. This event was mentored by instructors from Coding Blocks on 13th March, 2019.
4. MAIT ACM Student Chapter in association with Campus Blocks hosted a 2-day workshop on 28-29th March, 2019 on Python fundamentals, Machine Learning basics and refined Machine Learning Algorithms. Instructors and mentors from Coding Blocks as well as from MAIT ACM Student Chapter guided students through the various concepts involved in order to firmly grasp fundamentals of ML/AI.



Department of Computer Science and Engineering organized one day workshop on “OPEN SOURCE SOFTWARE DEVELOPMENT” in association with Student chapter of Coding Blocks (Campus Blocks) and TechCom Society of CSE department on 25th January 2019 from 10:30am to 1:30pm in Lab 131-132 for CSE students. The event was attended by 96 students of the CSE Department.



The session was delivered by Mr. Arnav Gupta (Coding Blocks – Founder member and GSoCer) and Mr. Harshit Dwivedi (Former GSoCer, Speaker at DEVOXX Belgium and instructor at Coding Blocks).The workshop started with an introduction to open source development, followed by its importance in various competitions like Google Summer of Code, Google Hash-Code and Google Kick-start.



STUDENT ACHIEVEMENTS

Four teams of MAIT students in which four students of CSE department were selected for round 2 of Hult regionals which was held at IIT Bombay from 12th to 14th April 2019.

Members of the selected teams are:

Team No.	Team Name	Team Members	Branch	Year
1	Chaitanya	Bittoo Agarwal	CSE	3 rd
		Saurabh	CSE	3 rd
		Sahil Arora	CSE	3 rd
		Amit Mishra	CSE	3 rd
		Mansi Tyagi	CSE	3 rd
2	Technovation	Ravi Dagar	IT	3 rd
		Akash Pandey	MAE	2 nd
		Hiten Arya	IT	2 nd
		Soumya Bhardwaj	ECE	1 st
		Yashaswani	EEE	2 nd
3	Paradise	Shubham Sharma	MAE	3 rd
		Shristi Rastogi	EEE	3 rd
		Piyush Gupta	CSE	3 rd
		Gaurav Nigam	EEE	3 rd
4	Milkyway	Shrey Khetarpal	IT	3 rd
		Puneet Ohri	ECE	3 rd
		Ayush Bansal	ECE	3 rd
		Tejaswi Kalra	MAE	3 rd

Institute has granted Rs 5,000 to each team member to participate for round 2 at IIT Bombay.

“World trade means competition from anywhere: advancing technology encourages cross-industry competition. Consequently, strategic planning must consider who our future competitors will be, not only who is here today”

-Eric Allison

RESEARCH PAPERS IN JOURNALS & CONFERENCES

(Faculty and Students)

S.No	Authors	Paper Title	Journal/Conference
1	Shirsh Sundaram, Deepak Gupta, Ashish Khanna	An improved fault detection crow search algorithm for wireless sensor network	International Journal of Communication Systems, July 2019
2	Utkarsh Agrawal, Jatin Arora, Rahul Singh, Deepak Gupta, Ashish Khanna	Hybrid Wolf-Bat algorithm for optimization of connection weights in multi-layer perceptron	ACM Transactions on Multimedia Computing Communications and Applications, July 2019
3	Naman Gupta, Deepak Gupta, Ashish Khanna	A mutual exclusion algorithm for flying Ad Hoc networks	Computer and Electrical Engineering (Elsevier), April 2019
4	Jatin Arora, Utkarsh Agrawal, Deepak Gupta, Ashish Khanna	Optimized Binary Bat Algorithm for classification of White Blood Cells	Measurement (Elsevier), January 2019
5	Naman Gupta, Deepak Gupta, Ashish Khanna	Evolutionary Algorithms for Automatic Lung Disease Detection	Measurement (Elsevier), Feb 2019
6	Shubbam Gupta, Moolchand Sharma, Prerna Sharma, Deepak Gupta	Bio-inspired algorithms for diagnosis of breast cancer	International Journal of Innovative Computing and Applications (Inderscience), [In-Press] March 2019
7	Rishabh Jain, Prerna Sharma, Moolchand Sharma, Deepak Gupta	Parkinson's diagnosis using Ant-Lion Optimization Algorithm	International Journal of Innovative Computing and Applications (Inderscience)[In-Press] Feb 2019
8	Sushant Verma, Radhika Bansal, Ashish Sharma	Energy Efficiency Techniques in heterogeneous networks	International Journal of Scientific & Engineering Research Sep, 2018
9	Jatin Arora, Utkarsh Agrawal, Deepak Gupta, Ashish Khanna	Ensemble feature selection method based on recently developed Nature-inspired algorithms	International Conference on Innovative Computing and Communications, Accepted March 2019

RESEARCH PAPERS IN JOURNALS & CONFERENCES

(Faculty and Students)

S.No	Authors	Paper Title	Journal/Conference
10	Anvita Saxena, Kaustubh Tripathi, Shirsh Sundaram, Deepak Gupta, Ashish Khanna	Emotion Detection through EEG Signals using FFT and Machine learning techniques	International Conference on Innovative Computing and Communications, Accepted March 2019
11	Yogesh Khatri, Rachit Chhabra, Naman Gupta, Deepak Gupta, Ashish Khanna	Secure MODIFIED AES Algorithm for Static and Mobile Networks	International Conference on Innovative Computing and Communications, Accepted March 2019
12	Naman Gupta, Rishabh Jain, Deepak Gupta, Ashish Khanna Nikita Goel Naman Gupta	Modified Ant-Lion Optimization algorithm for improved diagnosis of Thyroid disease	International Conference on Innovative Computing and Communications, Accepted March 2019
13	Ayush Kumar Tripathi, Priyam Garg, Alok Tripathy, Navender Vats, Deepak Gupta, Ashish Khanna	PREDICTION OF CERVICAL CANCER USING CHICKEN SWARM OPTIMISATION	International Conference on Innovative Computing and Communications, Accepted March 2019
14	Deepak Gupta, Ashish Khanna	Detection of Parkinson Disease using Machine learning techniques for Voice and Handwriting features	International Conference on Innovative Computing and Communications, Accepted March 2019
15	Agrima Mehandiratta, Neha Vij, Ayush Kumar Gupta, Deepak Gupta, Pooja Gupta, Ashish Khanna	Prediction of celiac disease using machine-learning techniques	International Conference on Innovative Computing and Communications, Accepted March 2019
16	Manas Bhardwaj, Savitoj Singh Naman Gupta, Deepak Gupta, Ankita Gupta, Ashish Khanna	Detection of Devanagari Text from Wild Images through Image Processing Techniques	International Conference on Innovative Computing and Communications, Accepted March 2019
17	Shubhi Jain, Naman Gupta, Deepak Gupta, Ankita Gupta, Ashish Khanna	Detection of Illegal Garbage Disposal from a moving car using Image Processing	International Conference on Innovative Computing and Communications, Accepted March 2019

RESEARCH PAPERS IN JOURNALS & CONFERENCES

(Faculty and Students)

S.No	Authors	Paper Title	Journal/Conference
18	Nitigya Sharma, Pranav Khandelwal, Prerna Sharma	HCI using Gestural Recognition for symbol based communication methodologies	International Conference on Innovative Computing and Communications, Accepted March 2019
19	Nakul Malhotra, Nikita Gupta, Mohit Mittal, Prerna Sharma	Dynamic Web with Automatic Code Generation using Deep Learning	International Conference on Innovative Computing and Communications, Accepted March 2019
20	Shivang Verma, Lakshay Sahn, Moolchand Sharma	Comparative Analysis of ChatBots	International Conference on Innovative Computing and Communications, Accepted March 2019
21	Ananya Bansal, Shubham Gupta, Chirag Asija, Moolchand Sharma	Bio-Inspired algorithms for diagnosis of Heart disease	International Conference on Innovative Computing and Communications, Accepted March 2019
22	Srishti Sahni, Vaibhav Aggarwal, Deepak Gupta, Ashish Khanna	Diagnosis of Parkinson's Disease using a Neural Network based on qPSO	International Conference on Innovative Computing and Communications, Accepted March 2019
23	Nobel Dang, Varun Saraf, Deepak Gupta, Ashish Khanna	Malaria Detection on Giemsa-stained blood smears using Deep Learning and Feature Extraction	International Conference on Innovative Computing and Communications, Accepted March 2019
24	Alok Kumar, Lakshita Bhargava, Ayushi Saxena, Zameer Fatima	CRUDE OIL CONSUMPTION FORECASTING USING CLASSICAL AND MACHINE LEARNING METHODS	International Journal of Knowledge Based Computer Systems, Accepted Feb 2019
25	Akshay Khattra, Keshav Issarc, Nishant Sardnad, Dr. Namita Gupta	Video To Text Analysis : Deep Learning	International Journal of Scientific & Engineering Research Volume 10, Issue 6, June-2019 163

IOSD- MAIT

IOSD - International Organization of Software Developers

IOSD-MAIT is the largest technical society of MAIT with more than 500 members registered in the college. IOSD, being run and managed by students provides a platform for developers to come together and create projects, discuss ideas and learn in a competitive healthy environment.

Enlightening our path and supervising the working of our society tirelessly, we are grateful to have **Mrs. Garima Gupta** as our faculty advisors and for always helping us in times of need.

IOSD-MAIT has been organizing the largest technical fest of the college since 2018 under the name of **IMPULSE**.

Impulse aims to provide students with a world-class technical experience, to inspire and inculcate critical thinking among them by enhancing their problem-solving skills and promote indigenous self-made technology.

DevDash, the first-ever blind web development event in the history of MAIT was itself a unique experience for the participants and volunteers as well, **Explora**-the workshop where students learned a lot about competitive coding and interview preparation. But the most special event was **HackMAIT 2.0**, a 36-hours hackathon, where the winners were awarded prizes worth 1 lac.

Since beginning, IOSD-MAIT has focused on teaching students about the new technologies and enhancing their skills. Regular classes are held to help students build their concepts. The classes held are on the following subjects: **C++, Core Java, Android App Development, Web Development, Data Science, Python and Machine Learning**

Skill Set Development : Senior members conduct "hands-on" workshops and specialized classes for the juniors , teaching them necessary technical skills like coding in various languages, even specializing in web development and android development and a lot more all throughout the year. They provide valuable insights on the same to the students.

