तेजस गणक

Faculty Awards

Einstein's Corner

Inspirational quote

We cannot solve our problems with the same thinking we used to create them..

Chief-Editor:
Dr. Namita Gupta

Editors:
Mr. Ashish Sharma
Dr. Farzil Kidwai

Members:
Mr. Sandeep Tayal
Mr. Moolchand Sharma

Students Co-ordinator:
Mr. Nitin Mittal
Ms. Anjali Joshi
Mr. Anmol Mittal
Ms. Srishty Sahni
Mr. Vasudev Awatramani

VISION
"To Produce Critical thinkers of Innovative Technology"

MISSION
"To provide an excellent learning environment across the computer science discipline to inculcate professional behavior, strong ethical values, innovative research capabilities and leadership abilities which enable them to become successful entrepreneurs in this globalized world"

MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY

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 to120 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	3
GLOBAL LOGIC	7	HITACHI	1
MAHINDRA COMVIVA	4	COMPRO	3
DELOITTE	3	HSBS	1
HT MEDIA	3	SAPIENT	1
ION TRADING	4	HUGSES SYSTIQUE	4
LIBSYS	3		

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 LPA
Name: Kishan R. Thawani, 04314802715
Company: HT Media
Package: 9 LPA
Name: Divyank Karolia, 02714802715
Company: HT Media
Package: 9 LPA
Name: Sainarayanan, 14802715
Company: HT Media
Package: 9 LPA

GGSIPU RESULTS (MAY 2018)

BATCH 2014-2018

Rank in GGSIPU	Rank in MAIT	Roll No.	Name	CPI
10	1	11914802714	AISHWARYA DHEMBLA	90.44
37	2	30114802714	SOAMA SINGLA	87.74
44	3	60214802714	MAYANK SHAH	87.62

BATCH 2015-2019

Rank in GGSIPU	Rank in MAIT	Roll No.	Name	CPI
13	1	35714802715	KSHITIJ GUPTA	93
25	2	02696402715	NIKITA GUPTA	92.3
26	3	04496402715	SNEHIL	92.1

BATCH 2016-2020

Rank in GGSIPU	Rank in MAIT	Roll No.	Name	CPI
1	1	20514802716	VIRENDER SINGH	94.9
14	2	35114802716	AKANKSHA SOOD	93
15	3	36214802716	SAKSHI BINDAL	92.8

BATCH 2017-2021

Rank in GGSIPU	Rank in MAIT	Roll No.	Name	CPI
12	1	06114802717	SAHIL TYAGI	93.5
13	2	41714802717	MANVI TYAGI	93.3
26	3	43714802717	KETAN JUNEJA	92.2

Department of Computer Science and Engineering (MAIT) has been awarded the prestigious and much sought after Accreditation by National Board of Accreditation (NBA) for three years with effect till 30th June 2021. It is a great recognition for the Institute dedicated to provide high standard professional education at affordable costs to students.

Professor P.S. Grover from Delhi University conducted a expert talk on NBA accreditation for the faculties of the institute in August 2018. He discussed key concepts like designing course outcomes, program outcomes and educational outcomes. He stressed on blooms taxonomy and outcome base evaluation. The talk was very resourceful, interactive and informative.

FACULTY UPDATES

Faculty members pursuing Ph.D.

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

Faculty member qualification update

1. Ms. Jyoti Sharma completed her PhD in ''Design a modified software metric in order to increase reliability'' from SRM university, Delhi NCR, Haryana in December, 2018.

1. One day workshop on "Blockchain" was organised in association with Coding Blocks on 4th October 2018 for 3rd Semester students. The session was headed by Mr. Anuj Garg from Coding Blocks. Workshop started with brief explanation of blockchain, bitcoins, ledgers, smart contracts and white papers. Students got hand on experience in Hyperledger (a platform for creating blockchain applications). Mr. Ashish Sharma, Assistant Professor coordinated the event.

2. One day workshop on "Machine Learning Using Python" was organised in association with Brain Mentors on 13 September 2018 for 3rd Semester students. The session started with a welcome speech by Dr. Namita Gupta, Head of the Department, CSE. The session was headed by Mr. Ravi from Brain Mentors. Mr. Ashish Sharma, Assistant Professor coordinated the event.

3. A One day workshop on "ANDROID" was organized by the department of CSE in association with ISSAC IT lab solution Pvt. Ltd. for third semester CSE students. The speaker of the workshop was the Mr. Sandeep (chairman and founder of ISSAC IT lab solution Pvt. Ltd.).Ms. Kavita Saxena and Ms. Deepti Gupta coordinated the event.
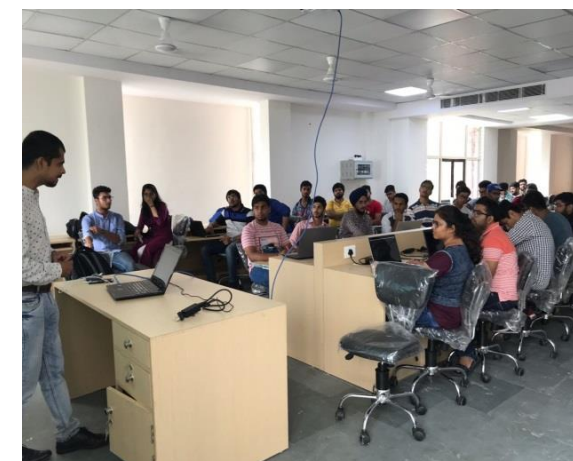
FACULTY UPDATES

New Joinings in the Department

Ms. Akanksha Kochhar
Educational Qualifications

B.Tech (BPIT,GGSIPU)
M.Tech (USICT, IPU)

Ms. Anubha

Educational Qualifications

B. Tech (D.C.R.U.S.T)
M.Tech (USICT, IPU, Delhi)

Department of Computer Science and Engineering, MAIT organised a One day Industrial Visit for Students of CSE Department to Network Bulls, Gurugram, Haryana on 12th September 2018 to give students the exposure regarding the same. 43 Students along with three faculty members (Mr Ashish Sharma, Mr. Yogesh Sharma, Ms Savita Sharma , Assistant Professors CSE Department) visited the site.

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. Students got experience on industry-institute interaction. The workshop was very interactive and students showed a lot of interest in learning about basics of networking.

Organized By-ACM-MAIT Student Chapter

1. MAIT ACM Student Chapter hosted an orientation session to guide 1st year freshers on how to proceed forward in terms of learning skills, profile building, project development and how our chapter would help them in shaping their careers and building an impactful profile while learning relevant skills on 23rd August 2018.

2. MAIT ACM Student Chapter Organized An online coding competition 9th September, 2018 at HackerEarth. The event was free of cost for participation for all students with the goal of encouraging students to pick up the habit of learning outside the textbook and participate in competitive coding events. Top three rankers were awarded with certificates from MAIT ACM Student Chapter.

3. MAIT ACM Student Chapter took Interviews for vacant positions in Core team of MAIT ACM Student Chapter on 22nd October 2018 where 9 new members were selected:

1. Web Developers: Saksham Jain
    Sakshi Bindal
    Mayank Raghuvanshi
    Gaurav Aggarwal
2. Marketing Head: Racheet Dokania
3. Marketing Associates: Mansi Jain
    Swapnil Srivastava
4. Graphic Designer: Bhrigu Kansra

4. MAIT ACM Student Chapter hosted a workshop on "Web Development and JavaScript" on 26th October 2018. Quickly gaining popularity JavaScript is very essential for Web Development both front and backend development. 16 students were present in this workshop from 1st and 2nd year of B.Tech.

TechCom is the official technical computer society of CSE, MAIT. TechCom aims to nurture talents and provide training to students who have keen interest in Computer Science & Technology.

Various activities are undertaken to provide students the platform to explore the world of technology, workshops to train students on the recent technologies, Competitions such as quizzes and hackathons are conducted regularly for students to prove their mettle in the field of hardware.With over 100 students as a part of this society, TechCom aspires to create an environment for learners to foster the spirit of learning and innovation. Society encourage new ideas to develop better understanding of the subject, and aim to make fun computers and easy for students.Faculty Coordinators of TechCom are **Ms. Kavita Saxena & Ms. Deepti Gupta.**

1. A One day workshop on "ANDROID" was organized by the department of CSE in association with ISSAC IT lab solution Pvt. Ltd. On 24/08/2018 in room no. 996 from 9:30am to 4:00pm for third semester CSE students. The speaker of the workshop was the Mr. Sandeep Tiwari (chairman and founder of ISSAC IT lab solution Pvt. Ltd.). Around 42 students attended the workshop. Students got there laptops with android studio installed. Workshops was divided in to two sessions (morning and after lunch). Workshop started with the detailed description of android studio in the morning session and after the lunch practical's where performed on the android studio.

2. An online contest of coding **'Code-Enigma'** was organized by the department of CSE in association with **coding blocks** on 06/10/2018. Students participated in the contest from their homes. Registration of the contest was done online. Contest contained problems on data structures and algorithms. Around 88 students of CSE participated in the contest.

3. **Battle of Apps** was organized in CSE department in association with ISSAC IT Lab Solutions on Android and Web development on 26th October 2019. All the CSE students were eligible to participate. Students are send their submissions that included Video, Screenshot, written Abstract and Github Repository Link of the project

INFOSYS DIGITAL MAKEATHON

Infosys Chandigarh conducted the Infosys Digital Makeathon, a competition aimed at bridging the gap between industry and academia on emerging disruptive technologies. Nine teams from the top engineering colleges in North India participated in the competition over October 25 and 26, 2018 at the Infosys Chandigarh Development Center (DC). Each team comprised one faculty member and four students. Team of Maharaja Agrasen Institute of Technology, Delhi comprising Sanket Singh, Vipin Bhardwaj, Harshit Singhal, Bittoo Aggarwal with Mentor Mr. Anupam Kumar made the project on "Safety Maps" and received Second Runner-Up Trophy and a gift voucher of INR 10,000.

INTER-INSTITUTE ACHIEVEMENTS

| S.NO	NAME	YEAR/MONTH	EVENT	ORGANISATION	AWARD
1	**Abhishek Chauhan**	Nov,2018	Asian Martial Arts Games- 2018	IKU Asian Karate Championship 2018	Gold Medal
2	**Bhavye Sharma Arjun Vidhyarthi Akshay Jain Krishna Lohiya**	Nov,2018	MOVEHACK	CICSO	Special Jury Award
3	**Aman Kumar**	2018	WWF India-Volunteers	WWF India, Department of Environmeent Education	Volunteer
4	**Krishna Chaudhary**	2018	HackwithInfy	Infosys, Pune	Top 100 finalists
5	**Naman Goyal Himanshu Gupta Akshay Sharma**	Dec,2018	ICPC Kolkata-Kanpur Online Contest	ICPC, ACM	Honorable Mention

RESEARCH PAPERS IN JOURNALS & CONFERENCES

(Faculty and Students)

S.No	Faculty Name	Title	Journal/Conference	Year
1	Deepak Gupta, and Ashish Khanna	Usability feature optimization using MWOA	*International Conference on Innovative Computing and Communications, pp. 453-462. Springer, Singapore*	Oct,2018
2	Deepak Gupta, Ashish Khanna	Usability feature extraction using modified crow search algorithm: a novel approach.	*Neural Computing and Applications*	Sept,2018
3	Zameer Fatima, Suvansh Chawla, Varshit , and RatikBhat	Contrastive Examination of Learning Techniques Deployed Over Handwritten Digits	*Advancement in Image Processing and Pattern Recognition*	Dec,2018
4	Sharma Prerna, , Moolchand Sharma, and Deepak Gupta.	Diagnosis of Parkinson's disease using modified grey wolf optimization.	*Cognitive Systems Research* 54	Dec, 2018
5	Sharma Prerna, ShirshSundaram,Moolchand Sharma, Arun Sharma, and Deepak Gupta	Leaf Identification using HOG, KNN, Neural Networks	International Conference of Innovative Computing and Communications	Oct, 2018
6	Prerna Sharma, Soumya Singla, and Vijay Arora	Street Light Energy Saver	International Conference of Innovative Computing and Communications	Oct,2018
7	Priyansha Garg,Mool chand Sharma, Yastika Kumar, and Shivani Aggrawal	Security on Cloud Computing using split algorithm along with cryptography and steganography using MWOA	International Conference of Innovative Computing and Communications	Oct, 2018
8	Prerna Sharma, Apoorva Gupta, Aastha Aggarwal, Deepak Gupta, Ashish Khanna	The health of things for classification of protein structure using improved grey wolf optimization	Journal of Supercomputing (springer)	Oct, 2018
9	Gupta Ankita & Gupta C	CDBR: A semi-automated collaborative execute-before-after dependency-based requirement prioritization approach	Journal of King Saud University-Computer and Information Sciences	Oct, 2018
10	Gupta Ankita & Gupta C	Towards Dependency Based Collaborative Method for Requirement Prioritization	2018 Eleventh International Conference on Contemporary Computing (IC3) (pp. 1-3). IEEE	Aug, 2018

INTERNSHIPS

Students of 3rd and 5th semester did summer internship in the month of in year 2018 in various government and private organizations. Major companies in which they did their summer internship training are as follows.

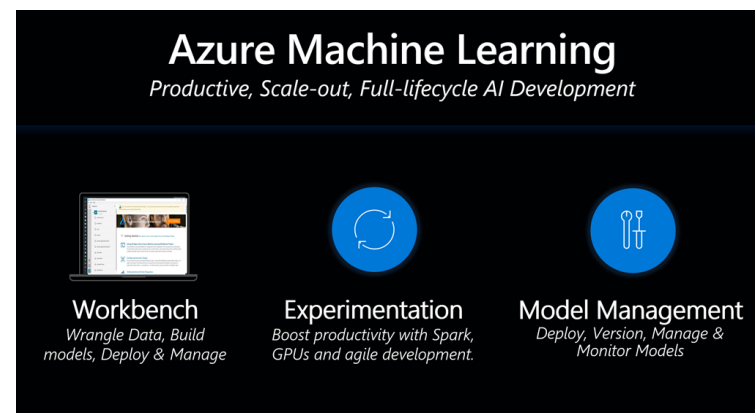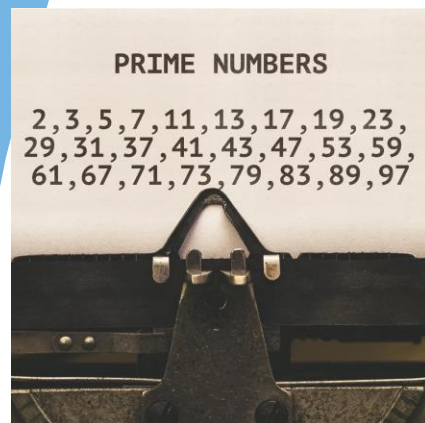|	Government		Private
1	NTPC	1	BRAIN MENTORS
2	ONGC	2	DUCAT
3	GAIL	3	HCL
4	AIR	4	HARTON
5	NITI AAYOG	5	AKHIL SYSTEMS
6	DICS	6	WEBTEK
7	DELHI METRO	7	CODING BLOCKS
8	CENTRAL ELECTRONICLE	8	CODING NINJAS
9	IIIT DELHI	9	TCS
10	CRIS	10	CODEC
11	CDAC	11	AVIZ
12	AAI	12	SHIVALIK PRINT
13	DRDO	13	ONLINE TECH
14	AIRFORCE STATION	14	NOTESHUB
15	NEGD	15	TECH MONARCH
16	MMTC	16	VAPRONIX
		17	MICROSOFT TECHNOLOGY

Summer internship
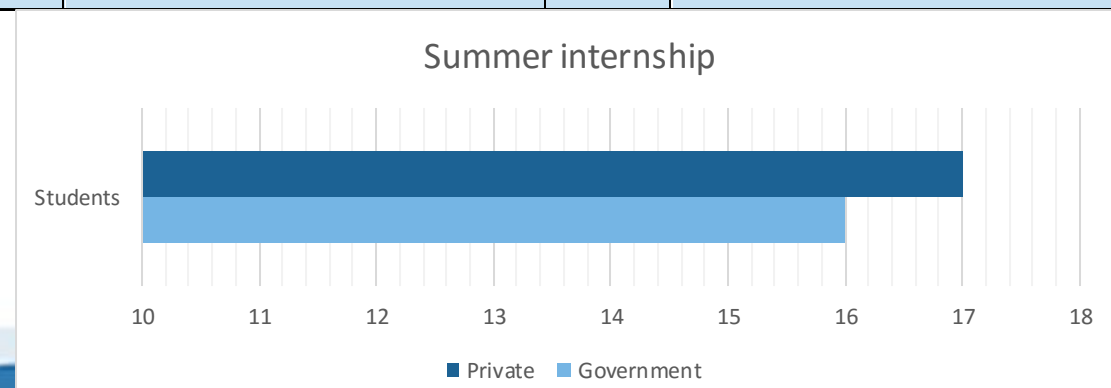
1. Mathematician Claims He Solved 160-Year-Old Math Problem. Critics Say Probably Not.

An unsolved 160-year-old math problem may finally have a solution — but critics are wary.
September 24, 2018

Michael Atiyah, a prominent mathematician emeritus at the University of Edinburgh, announced (Sept. 24) at the Heidelberg Laureate Forum in Germany that he had come up with a simple proof to solve the Riemann hypothesis. The hypothesis was first put forth by German mathematician Bernhard Riemann in 1859. Prime numbers, or those whose only factors are 1 and itself — such as 2, 3, 5 and 7— don't seem to follow a regular pattern on the number line. In other words, you couldn't figure out when the next prime number occurs by knowing some pattern. [The 11 Most Beautiful Mathematical Equations]However, Riemann saw that the frequency of prime numbers apparently closely follows one equation that became known as the Riemann Zeta function, according to the Clay Mathematics Institute. If the equation holds true, it would describe the distribution of prime numbers all the way to infinity.But as of now, it has been checked for only the first 10,000,000,000,000 solutions, according to the institute, and the problem remains "unsolved." The person who solves the Riemann Zeta function, or one of the other six big mysteries in math that make up the "Millennium Prize Problems," will win an award of $1 million from the Institute. Atiyah's proof is based on an unrelated physics number called the "fine structure constant," which describes the electromagnetic interactions between charged particles, according to Science. He describes this constant using another equation called the Todd Function, to prove the Riemann hypothesis by contradiction, according to Science.

PRIME NUMBERS
2,3,5,7,11,13,17,19,23,
29,31,37,41,43,47,53,59,
61,67,71,73,79,83,89,97

Azure Machine Learning
Productive, Scale-out, Full-lifecycle AI Development

Workbench
Wrangle Data, Build models, Deploy & Manage

Experimentation
Boost productivity with Spark, GPUs and agile development.

Model Management
Deploy, Version, Manage & Monitor Models

2. Microsoft Makes Azure Machine Learning Available For Developers

December 6, 2018, Microsoft
Microsoft is opening up its Azure Machine Learning Service for data scientists and developers so that they can use the Cloud-based offering to quickly create and train Machine Learning (ML) models, and then deploy them in production. The Azure Machine Learning Service was first made available in preview in September, and will become generally available starting February 1 next year, Microsoft said on Tuesday at a virtual event called Microsoft Connect(), an annual Cloud- and data-focused developer conference With Azure Machine Learning Service, developers can eliminate most of the heavy lifting involved in building and training ML models, the software giant said. Some of the main features of the service include being able to automate ML model selection and tuning. The biggest benefit therefore is a reduction in the time it takes to get those models up and running production, the company said. There's also a new update to the Microsoft Azure Cosmos DB database service, which provides distribution across Azure regions for organisations that need Artificial Intelligence (AI)-based applications to run reliably on a global scale.

Vineet Tyagi

Vineet is a graduate in B.Tech. (2006-2010) from MAIT, Delhi. He is a serial entrepreneur and a natural and dynamic leader. He is a visionary by birth who firmly believes in action. His passion to serve the society and to help the needy led to the foundation of an NGO- Youth Unity Foundation (YUF) at young age, as a student. YUF was formed in 2010 when he along with some of other young volunteers grouped together for betterment of society. They have been providing career counseling to the youth in schools and colleges for their better future. They have successfully worked for creating awareness amongst the youth about digital literacy by conducting Digital Literacy Workshops in RWAs and various colleges like ARSD, Delhi University. Similarly, they have been constantly putting in efforts for improving lives of children and other people in orphanages and blind hostels.

After his graduation, Vineet started his professional career while pursuing his deeds for YUF. He has an enriched experience of 8+ years in IT industry in product development. His enthusiasm led him to have his own start up- Think Small Group, TSG. TSG is a Blockchain product cum service based firm. He is working as Founder and CEO of TSG. He is technology enthusiast and that takes TSG to new heights. Recently TSG has also associated with Sales force as its implementation partner.TSG seems to be growing with emerging technologies.

He is also known as an orator. He has delivered sessions in prestigious institutes like IIT-Mumbai and organizations like BANKIT on Blockchain technology and power and need of decentralized applications. Besides all this, he holds an important position of State Secretary, Incharge Media, Social Media and IT of youth wing of world's largest political party i.e., Bharatiya Janta Party (BJP). He has been working hard on bringing a difference in society by giving emphasis on its overall growth by running successful campaigns under Bharatiya Janta Yuva Morcha (BJYM), Delhi which creates awareness amongst youth about various government policies formed for their benefits. His aim is to help youth achieve their dreams and ambition. He is fond believer of thought that one should have strong belief, confidence and courage to put their foot forward to make nation feel proud of them. His political and social circle knows him as a dynamic and enterprise young leader who believes in action. He has always considered books as his best friends and has many a times pen down his thoughts which always have the potential to influence others.

ALUMNI FOCUS

Kautilya Bansal

An innovator and entrepreneur, Kautilya Bansal is now Chief Mentor, Abhinav Group of Schools, Delhi, India and Director, Abhinav Global School, Sector-13, Dwarka, Delhi, India.

His mission is to serve and educate future young generation of the world for their all-round development by understanding their needs and to be a leader who is pragmatic and simple.

With the same lines he founded, 'The CHANG 1.7', an educational model, which transfers the right skills to students for the same.

A timeline of his achievements:

• Completed 'Training for Future Leaders', organized by the Stichting Libertas International, Netherlands Education Group, held in Amsterdam, the Netherlands on May 13-18, 2018.

• Selected as Delegate for 23rd Session of The Youth Assembly, New York to be held from 14 February to 17 February 2019 in New York University.

• Selected and represented India, as only India Delegate in International Young Innovators Summit 2018, to present essay 'The CHANG 1.7', in Tokyo, Japan held from 08 October to 11 October 2018.

• Won 'The Best Solution Innovation Award' in International Young Innovators Summit' 2018.

• Received Special Award from Norton University, Cambodia in International Young Innovators Summit' 2018.

• On 16 November 2018, Hindustan Times, covered his story on Page 24.

• Crowned as "Award for contribution to Education Community" in International School Awards, Dubai, 2018.

• present essay 'The CHANG 1.7' in Educarnival, 2018, IIT, Delhi.

• Ambassador for the Great Kindness Challenge, United Kingdom

• Selected as Ambassador for International Youth Math Challenge, Germany

As a young entrepreneur, he is always ready to give back to the society as

• Selected in panel discussion at Education Innovation Conference 2019, Economic Policy Group ("EPG") on "Teaching and Learning out of box" held at India Habitat Centre, Delhi on 1 February 2019.

• Invited as Speaker in Sector Talk Series in Guru Nanak Institute of Management Studies, Matunga, Mumbai, on 19 November 2018.

• From one tweet, 19 Indians stuck in China were saved.

Also, he is active member of World Youth Organization and UNITE 2030, International Development House, London and he is passionate to meet like-minded people and organizations to initiate a potential collaboration and step up

Director, Abhinav Global School, Sec-13, Dwarka Bags 'The Best Solution Innovation' Award

International Young Innovators Summit, 2018 organised by Studec International and supported by Japan Student Service Organisations (JASSO), was held in Tokyo, Japan with the theme "Designing the Innovation for the better world". Fifty four delegates from eight countries participated. Representing India solely, Kautilya Bansal, Director, **Abhinav Global School, Sector-13, Dwarka**, presented his essay 'The CHANG 1.7', an innovative solution to prepare the students for future, rather than past and won 'The Best Solution Innovation Award' and was felicitated by a medal and certificate. Also, out of fifty four delegates, three delegates were awarded with 'Special Award' from Norton University, Cambodia; he was one among the three.

Department Celebrations