GLA UNIVERSITY MATHURA
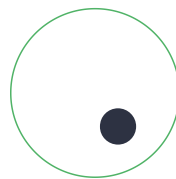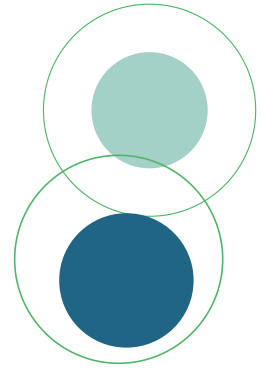Accredited with **A** Grade by **NAAC**

Department of CEA Presents…

Vol. 2, Issue 4, September 2019

ping

Department of CEA's e-Newsletter

Thought…Emotion…Information…

HoD's Message

Welcome to the latest issue of the CEA's e-newsletter – 'ping'. I would also like to welcome all newly admitted students to the department. Newsletter is the amalgamation of all the events and activities held in the department. I strongly believe that an informative newsletter plays a vital role in providing a greater exposure of the achievements accomplished by the students, faculty & staff members. On a regular interval, our department is organizing workshops, seminars, alumni's interactions etc. to ensure multidimensional exposure to our students & research scholars. I am happy that each and every club of the department is contributing to achieve this goal. Last but not the least, I would like to thank the editorial team for their sincere efforts in brining such a beautiful and appealing newsletter. I hope this issue will help our young minds to contribute more to the growth and achievements to the department and to the university as well.

Prof. Anand Singh Jalal

From the Chief Editor's Desk

Dear GLA fraternity and distinguished readers,
This issue covers the period from March to August, the period in which either final examination is held or the students enjoy their vacations. But our Department was not just limited to this; there is much significant which happened in this period and which one can witness while surveying this issue. In addition to many workshops, seminars and guest lectures, department also organized some alumni's interaction with different courses of the department. Nonetheless, the issue is not all about news; it also brings forth the creative and professional outputs from the students and faculty members in the form of publishing research papers in International Journals and conferences as well as getting various certifications. I wish that the current issue of 'ping' encourages faculty & staff members along with students to use it as a platform to express their tremendous creativities in coming future. I would also like to mention here that the entire editorial team have put their best efforts in making this issue a significant and interesting reading. If you wish, you are welcome to write to the editor on ping.cea@gla.ac.in. We shall appreciate your comments and suggestions.

Nikhil Govil

Editorial Team

Nikhil Singhal
B-Tech (CSE) IVth Year

Shubham Joshi
B-Tech (CSE) IVth Year

Yashika Goyal
B-Tech (CSE) IIIrd Year

Aditya Vikram Singh
B-Tech (CSE) IIIrd Year

Khushboo Agrawal
B-Tech (CSE) – IIIrd Year

Radhika Singh
B-Tech (CSE) IInd Year

Shubhangi Srivastava
B-Tech (CSE) IInd Year

Deepesh Pandey
B-Tech (CSE) IInd Year

Akshita Saxena
B-Tech (CSE) IInd Year

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ping_gla

MoU Signed

Alumni Visit

1. A MoU (Memorandum of Understanding) is signed between GLA University, Mathura and The Cloud Computing and Distributed Systems (CLOUDS) Laboratories, University of Melbourne, Australia for three years. The objective of this MoU is to organize Joint Research Seminars, Workshops and Conferences along with Joint research and meetings for Education and Research on regular intervals. Students, Research Scholars and Faculty members will be benefited with this MoU as they can share their thoughts, experience & research ideas with each other.

2. Another MoU is signed between GLA University, Mathura and Global Logic India Limited, to develop industry oriented practice based resources to bridge the industry academia gap. Through this MoU, students & faculty members of CEA department will be benefited. This MoU is of two years duration

3. One more MoU is signed between GLA University, Mathura and VMware Education Partner for a year. The objective of this MoU is to ensure Footprints in Virtualization and cloud technologies with VMware, Industry insights on latest trends in technology, Authorized learning content from VMware through our partner network , Instructor-led & virtual event, and 24/7 self-paced options, Project work for students, Establishment of Centre of Excellence.

Alumnus Mr. Sandeep Tiwari MCA Batch 2011, working as Team Lead, Aricent Technologies, Gurgaon, visited department and interact with MCA 2nd year & 3rd year students. He discussed about time managment.
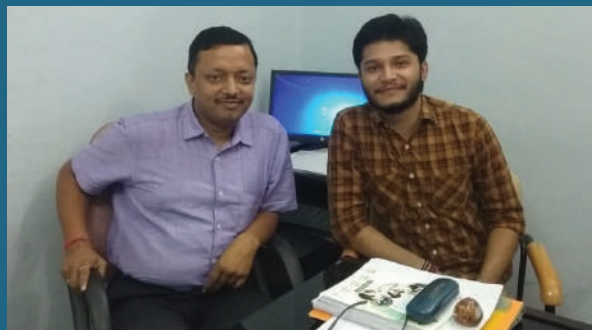
Alumni Mr. Aditya BTech (CSE) batch 2019 working in FICO (on a Package of 8 LPA), visited Department and had an interaction with 2nd year CSE Students.He discussed about tricks to clear technical and HR interview rounds.

ALUMNUS SPEAK

I am Kaushalendra Mishra currently working as Chief Engineer with Samsung India Electronics Pvt Ltd. I completed my MCA from GLA University, Mathura in 2010.
During my stay at the university I felt a homely ambience. I was lucky enough to gather a good company of friends. Teachers were very caring and supportive. What I learnt at GLA University is still useful in my day-to-day work. Being a part of this university was an amazing experience and I will cherish it forever.

Mr. Kauslendra Mishra
MCA, Batch - 2010
Chief Engineer
Samsung India Electronics Pvt. Ltd.
SAMSUNG

Alumni Mr. Ashish Kathuria BTech (CSE) batch 2014, working in ECI TELECOM, visited Department and had an interaction with 3rd year CSE Students. He gave emphasis to work on projects.

YASH PARASHAR
Campus CEO-SWIGGY of GLA UNIVERSITY
BTech CSE Ist Year

Success Story

Yash Parashar student of BTech(CSE) Ist year, wants to be an enterpreneur so he always look for such opportunities. In the mid of June'19, he came to know about "Swiggy Launchpad" from one of his friends in which Swiggy was hiring its campus CEOs in Universities and trying to make there network wide. To become a CEO there were two rounds as Online test and Personal Interview.

He qualified all the rounds and got selected for the post of CEO in GLA University,Mathura. He went to Banglore for the orientation and came to know more about Swiggy. He created a network by collaborating with resturents which was quite a big task. He had to face many problems like which resturent will provide good services, other online food delivery services etc. He start working on people's choices and thier reviews. So that he can plan the straties in which others were lacking behind. He came to know that people are more intrested on getting their food within 30 minutes unlike others who delivering the same food having minimum 50 minutes time duration.

He started to extend swiggy with this idea among people. Yash strated to woek on strategies to boost up to make Swiggy popular amoung students in university. To ensure he got created banners, regular updates on social networking platforms.Then he got engaged in consumer based companies which was a great experience for him. There he got mothly salary including free meals which was quite fascinating. His family was very supportive there. Since they allowed him to grab such a wonderful opportunity which ultimately adds stars in his profile.

PhD Awarded

Dr. Suresh Raikwar completed his PhD in Information Technology from ABV-Indian Institute of Information Technology and Management, Gwalior in June 2019.

His PhD thesis title is **Quality improvement and analysis of single image dehazing**.

Department of CEA congratulates him for his tremandous research work & achievement.

Dr. Suresh Raikwar
Assistant Professor

New Roles & Responsibilities

Prof. Dilip Kumar Sharma

Prof. Manoj Kumar

Dr. Dilip Kumar Sharma, Professor; appointed as Associate Dean (Academic Collaboration) of GLA University, Mathura. He will share his experience, wisdom & knowledge in providing the administrative and academic management of the various Departments/Institutes at University level. Department of CEA congratulates him on his achievement.

Based on the recommendation of selection committee the Hon'ble Chairman, Executive Council is pleased to promote Dr. Manoj Kumar, to the post of Professor at the department of Computer Engineering & Applications of GLA University, Mathura. Department of CEA congratulates him on his achievement.

Research Paper Publications

▶ SCI

1. Mukta Sharma, A.S. Jalal and Aamir Khan, "Emotion Recognition Using Facial Expression by Fusing Key Points Descriptor and Texture Features", International Journal of Multimedia Tools and Applications, 2019. [SCI Impact Factor: 2.101].

2. R. K. Tripathi, A.S. Jalal and S. Agrawal, "Abandoned Object Detection from Visual Surveillance", Multimedia Tools and Applications, Volume 78, Issue 6, pp. 7585–7620, March 2019. [SCI Impact Factor: 1.541]

3. Manoj Kumar, "Optimal Query Norm Distance and Motion Sketch-Based Crowd Video Retrieval", Journal of Engineering Research. [SCI Impact factor: 1.092] (Accepted for Publication).

4. Amit Chaurasia and Vivek Kumar Sehgal, "The MPEG-4 based energy efficient application traffic modelling and synthesis for network-on-chip architecture." Sustainable Computing: Informatics and Systems 23 pp. 67-79 (2019). [SCI Impact Factor 1.8]

▶ Scopus

1. Rohit Agrawal, A. S. Jalal and K. V. Arya, "Fake finger-print liveness detection based on micro and macro features", International Journal of Biometrics, Accepted for Publication, Inderscience, Vol. 11, No. 2, pp. 177- 206, 2019. [Scopus (Elesvier)]

2. Shashi Shekhar, Dilip Kr. Sharma and M.M. Sufyan Beg, "Computational Linguistic Retrieval Framework using Negative Bootstrapping for Retrieving Transliteration Variants", In International Journal of Computational Vision and Robotics, 2019. [Scopus (Elsevier)] (Accepted for publication)

3. Aprna Tripathi, Rahul Pradhan and Ankur Chaturvedi, "PLC Reducer – A Tool to Generate Possible Reductions in Coupling at Design Level", International Journal of Recent Technology and Engineering, Vol. 7, Issue 6, pp. 2036-2042, 2019. [Scopus]

4. Nitin Tyagi and Manas Kumar Mishra, "An Artificial Immune System Source-Based Immunization Approach with Centralized Monitoring and Tag Scaling for Misbehaviour Detection in Mobile Ad-Hoc Networks," International Journal of Innovative Technology and Exploring Engineering ISSN: 2278-3075, Vol. 8, Issue 5, pp. 669–678, 2019. [Scopus]

5. Ankur Chaturvedi, Aprna Tripathi, Rahul Pradhan and Dilip Kumar Sharma, "An effect of Temporal information for Trust aware Recommender System", International Journal of Recent Technology and Engineering, Vol. 8, Issue 1, 2019. [Scopus] (Accepted for Publication).

6. Aprna Tripathi, Varsha Kumari and Nikhil Govil, "Impacts of PLC Reducer on Software Design Cohesiveness", International Journal of Innovative Technology and Exploring Engineering, Vol.8, Issue 8, pp 2871 - 2875, 2019 [Scopus]

▶ Conference

1. D. K. Sharma , R. Pamula , D.S. Chauhan, "Soft Computing techniques based Automatic Query Expansion approach for improving Document Retrieval", In the proceedings of IEEE Amity International Conference On Artificial Intelligence - AICAI'19, held at Amity University Dubai during Feb 4-6, 2019.[Scopus Indexed]

2. V. Kumar, "Compendious and succinct data structures for Big data", In the proceedings of 5th international conference on computational Intelligence and communication and technology (CICT2019)" at ABES engineering college Ghaziabad, Feb 22-23.[Scopus Indexed]

3. Pawan Kumar Verma, Vivek Sharma and Shalini Agarwal, "Credibility investigation for tweets and its users", 3rd International Conference on Computing Methodologies and Communication (ICCMC 2019), 27-29, March 2019. [Scopus Indexed]

4. Vivek Sharma, Shalini Agarwal and Pawan Kumar Verma, "Auto Adaptive Differential Evolution Algorithm", 3rd International Conference on Computing Methodologies and Communication (ICCMC 2019), 27-29, March 2019. [Scopus Indexed]

5. Shalini Agarwal, Vivek Sharma and Pawan Kumar Verma, "Palm Print Recognition Using CEDA", 3rd International Conference on Computing Methodologies and Communication (ICCMC 2019), 27-29, March 2019. [Scopus Indexed]

6. Ajitesh Kumar and Mona Kumari, "Design and Analysis of IoT based system for crowd density estimation techniques", In proceedings of 2nd International Conference on Data & Information Science (ICDIS 19)" at RBS Agra, March 29-30. [Scopus Indexed]

7. Rahul Pradhan, Ankur Chaturvedi, Aprna Tripathi and Dilip Kumar Sharma, "A Review on Offensive Language detection", In proceedings of 2nd International Conference on Data & Information Science (ICDIS 19)" at RBS Agra, March 29-30. [Scopus Indexed]

8. Piyush Vashistha, Juginder Pal Singh, "A Comparative analysis of different violence detection algorithms from videos", In proceedings of 2nd International Conference on Data & Information Science (ICDIS 19)" at RBS Agra, March 29-30. [Scopus Indexed]

9. Deepak Mangal, Saurabh Singhal and D. K. Sharma "An Algorithm for Prediction of Web User Navigation Pattern & Restructuring of Web Structure Based on Visitor's Web Access Pattern", In Proceedings of the 3rd International Conference on Advances in Computing and Data Science (ICACDS-2019), at IPEC, Ghaziabad, April 12-13, 2019. [Scopus Indexed]

Faculty Achievements

10. Pooja Saxena and Mohd Amir khan, "Multiplexer based voltage controlled delay buffer element" In Proceedings of 5th International Conference for Convergence fo technology (I2CT 2019), 29th March, 2019 at The Gateway (TAJ), Pune, India. 29th March 2019. [Scopus Indexed]

11. Nishant Singh, Vivek Kumar and Charul Bhatnagar, "Text Detection Using Maximally Stable External Regions And Stroke Width Variation", 4th International Conference on Internet of Things and Connected Technologies (ICIoTCT 2019), 9-10 May 2019 [Scopus Indexed] (Accepted for publication).

12. Amit Chaurasia, "Performance of Rosenblatt Process on Multi-core Architecture" in 3rd International Conference on Electronics Communication and Aerospace Technology (ICECA-2019). [Scopus Indexed] (Accepted for Publication)

13. Sharad Pratap Singh, Vinesh Kumar, Akhilesh Kumar Singh "A Survey on Internet of Things (IoT): Layer Specific vs. Domain Specific Architecture", In Proceedings of the 2nd International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT2019)] at RVS Technical Campus Coimbatore, India. [Scopus Indexed] (Accepted for Publication)

▶ Online Certification

1. Mr. Piyush Vashistha, Assistant Professor; successfully completed online course on "Joy of Computing Using Python" with a consolidated score of 92%, organized by NPTEL – IIT Madras, during Jan – Apr 2019. He has been awarded with Gold Badge and also declared among top 5% candidates.

2. Vivek Kumar, Assistant Professor; successfully completed online course on "Joy of Computing Using Python" with a consolidated score of 89%, organized by NPTEL – IIT Madras, during Jan – Apr 2019.

3. Mr. Sandeep Rathor, Assistant Professor; successfully completed online course on "Introduction to Soft Computing" with a consolidated score of 78%, organized by NPTEL – IIT Kharagpur, during Jan – Mar 2019.

4. Mr. Puneet Kansal, Assistant Professor; successfully completed online course on "Programming, Data Structures and Algorithms Using Python" with a consolidated score of 75%, organized by NPTEL – IIT Madras, during Jan – Mar 2019.

"DO THE EARTH A FAVOUR, BE A POWER SAVER."

M.TECH ALUMNI SPEAK

The M.Tech course at GLA appears to be wide thought out and innovative approach to provide student with technical skills that are most relevant today. The faculty was most helpful and guided me at every step in honing my core competencies. I thank all those who guided me for the wonderful experience.

Abhilasha Varshney
M.Tech-CSE- Batch 2012-14
Assistant Professor
IPEC
Inderprastha Engineering College, Ghaziabad

Student's Achievements

▶ Research Paper Publication in SCI Journal

Mohd. Aamir Khan
PhD Scholar

Mohd Aamir Khan, and Anand Singh Jalal. "A Fuzzy Rule Based Multimodal Framework for Face Sketch-to-Photo Retrieval." Expert Systems with Applications Vol 134, pp 138-152 2019. (SCI Indexed - 4.2) Elsevier.

Monika Singh
MTech (CSE) Batch 2014-2016

Monika Singh, Anand Singh Jalal, Ruchira Manke and Aamir Khan. "A Visual Saliency Detection Approach by fusing Low-level Priors with High-level Priors." International Journal of Computer Vision and Image Processing (IJCVIP) 9.3 2019 IGI-Global.

Ayushi Mishra
MTech (CSE) Batch 2016-2018

Ayushi Mishra, Rohit Agrawal, Mohd Aamir Khan and Anand Singh Jalal. "A Robust Approach for Palmprint Biometric Recognition." International Journal of Biometric, 2019 (Scopus) Inderscience. [Accepted for publication].

## ▶ Research Paper Publication in Scopus Journal

Arushi Mangla
B-Tech (CSE) – DA IVth Year

Prateeksha Chaturvedi
B-Tech (CSE) – DA IVth Year

Ashutosh Shankhdhar, Arushi Mangla and Prateeksha Chaturvedi, "Encoded Data Methodologies for Cloud Computing Realm's Security Enhancement", International Journal of Recent Technology & Engineering (IJRTE), Vol. 8, Issue 1, pp 1461 – 1466, 2019 [Scopus]
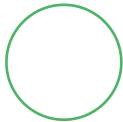
Harshul Kshire
B-Tech (CSE) Batch 2015-2019

Amit Chaurasia and Harshul Kshire, "SNCHAR: Sign Language Recognition System", International Journal of Recent Technology and Engineering, Vol. 8, Issue 1, 2019. [Scopus] (Accepted for Publication).

▶ Participation in Google's Women Engineering Program

Sajal Agrawal
B-Tech (CSE) IVth Year

Sajal Agrawal has been selected in the Women Engineers Program supported by Google, under which 100 undergraduate girls all across India are selected for 1-year long IT online training.

▶ Google's Digital Unlocked Certification

Khushboo Agrawal
B-Tech (CSE) – IIIrd Year

Khushboo Agrawal from BTech (CSE) – IIIrd Year; got certified as Google's Digital Marketing. After getting this certification. She can provide her services in digital marketing, social media marketing & search engine optimization sectors

▶ Online Course Certification

Kunal Goyal
B-Tech (CSE) – IIIrd Year

Kunal Goyal, currently student of BTech (CSE) III rd year, has successfully completed four online courses as

1.   "Joy of Computing Using Python" with a consolidated score of 91%, organized by NPTEL – IIT Mdras, during Jan – Apr 2019. He has been awarded with Gold Badge and also declared among top 5% candidates.

2.   "Programming in Java" with a consolidated score of 94%, organized by NPTEL – IIT Kharagpur, during Jan – Apr 2019. He has been awarded with Gold Badge.

3. "Data Base Management System" with a consolidated score of 85%, organized by NPTEL – IIT Kharagpur, during Feb – Apr 2019. He has been awarded with Silver Badge.

4. "Programming, Data Structures and Algorithm" with a consolidated score of 85%, organized by NPTEL – IIT Madras, during Jan – Mar 2019. He has been awarded with Silver Badge.

▶ Qualify AWS Certification

Jitendra Kumar Sharma
BTech (CSE) – CCV IVth Year

Jitendra Kumar Sharma, currently student of BTech (CSE) – CCV IVth year, has successfully completed the AWS certification requirements and has achieved "AWS Certified Solutions Architect – Associate".

▶ Winners of "Student of The Semester" & "Excellent Programmer" for 2018 – 2019 (Odd Semester)

It is a matter of immense pleasure for us to declare the results of "Student of the Semester" & "Excellent Programmer" awards for session 2018–2019 (ODD Semester). The jury members thoroughly examined each & every nomination on the basis of several parameters. There was some tough debating going on but this was the result…

The winners of "Students of the Semester" are:

Lovely Sharma
B.C.A. I Year

Raj Chouhan
B.C.A. II Year

Ayush Kumar Gola
B.C.A. III Year

Dhruv Goel
B.Tech. (CSE-DA) II Year

Utkarsh Shukla
B.Tech. (CSE) III Year

Shivang Agrawal
B.Tech. (CSE) IV Year

Sangam Kumar
M.C.A. III Year

The winners of "Excellent Programmer" are:

Abhay Kumar
B.C.A. I Year

Sudarshan Sharma
B.Tech. (CSE-DA) II Year

Sajal Agrawal
B-Tech (CSE) IVth Year

Prajjwal Sharma
B.Tech. (CSE) IV Year

Kushap Pratap Singh
M.C.A. III Year

New Joiners in Department

Dr. Manish Raj

Dr. Manish Raj has joined the department as Assistant Professor. He has done his PhD & MTech in Robotics & Machine Learning from Indian Institute of Information Technology, Allahabad in year 2018 & 2013 respectively. He has published 17 research papers in Journals & Conferences of National & International repute. His area of interest includes Robotics, Machine Learning & Control System.

Ms. Swati Srivastava

Ms. Swati Srivastava has joined the department as Assistant Professor. She is pursuing PhD (CSE) from AKTU, Lucknow & submitted her thesis. She has done MTech (CSE) from MNNIT, Allahabad in 2011. She has 8 years of teaching & research experience in Computer Science & Engineering domain. Her area of interest includes Data Structures, Image Processing & Computer Graphics.

Ms. Ruchi Agrawal

Ms. Ruchi Agrawal has joined the department as Assistant Professor. She has done MTech (CSE) from GLA University, Mathura in 2016. She has 3 years of teaching & research experience in Computer Science & Engineering domain. Her area of interest includes Software Engineering, Operating System & Artificial Intelligence.

Mr. Akhilesh Sarsvat

Mr. Akhilesh Sarsvat has joined the department as Lab Technician. He has done BSc. IT from EIILM University, Sikkim. He has sound knowledge of H/w & N/w troubleshooting

Mr. Ajeet Kuma Sharma

Mr. Ajeet Kumar Sharma has joined the department as Assistant Professor. He has done MTech (CSE) from AKTU, Lucknow in 2015. He has total 5 years of teaching & research experience in Computer Science & Engineering domain. His area of interest include Theory of Automata, Computer Networks & Cyber Security. He has published 2 research papers in Journals International repute

Tete - a - tete

Editorial board of Ping organised a Tete-a-tete with one of the senior faculty member of CEA department, Asst. Prof. Shashi Shekhar on the topic "Faculty relationships with students".
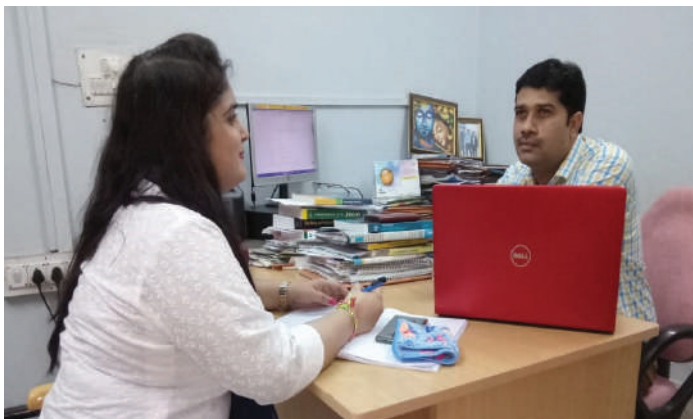
Our student editor Ms. Yashika Goyal from B.Tech (CSE) IIIrd year conducted the session. Mr. Shashi Shekhar shared his views on current situation and future exceptaions for student's welfare. He enlightens his thoughts about students and faculty relationship outside the classrooms and campus.

YASHIKA: Good morning Sir! How much do you want to know about your student in order to be most helpful to them?

SHASHI SIR: I would like to know their behavioural as well as academic aspects. If a student has good behavior then only he/she is capable of surviving in every environment even if they dont have the acute academic knowledge. A person is always known by others only by his nature (behaviour).

YASHIKA: How you motivate your students to be a responsible student?

SHASHI SIR: Everyday I try to focus on my student's behaviour in real world situtaion. If I found any scope of improvement in any particular student then exhort them to tacle smartly in complicated situtations.

YASHIKA: How do you evaluate your student?

SHASHI SIR: I look for his/her behavioral aspects.I believe that each student has his/her unique strengths. An evaluation system must have the capability to identify these strengths and nurture them. In my approach, I try to identify a student's strength by counselling and observation then I evaluate the students on how much they have improved over a period of time. Apart from developing the unique strengths of students, I also ensure that the other aspects of their education must not be affected.

YASHIKA: Why do you want to teach at GLA?

SHASHI SIR: Being one of the most respected Universities in our region, I will consider it my good fortune to get an opportunity to work here. The working culture, enviroments and values of GLA University are remarkable. Each and every faculty member is having the same goal as to improve ourselves and our students in positive direction.

YASHIKA: What do you like best about teaching?

SHASHI SIR: The to and fro interaction between me and my students is the best thing, where I can hear the students and get to know their thoughts and perspective and undoubtedly I learn alot while teaching and discussing with young minds .

YASHIKA: What is your teaching philosophy?

SHASHI SIR: It's an art of transferring facts where facts can be accommodated through knowledge; knowlege comes from a continuous process of learning and a teacher must be a good learner.

YASHIKA: What message do you want to give to the students?

SHASHI SIR : **"You need to be odd to be number one!"**

YASHIKA **:** Thank you so much sir for sharing your valuable time with us. Have a nice day!

Abacus Events

▶ DATUM

Department of Engineering and Applications organised a workshop under flagship of DATUM. The resource person of this workshop was Nihal Jaiswal (Corporate Trainer) Aspire Vision Tech. Pvt. Ltd. and Coordinated by Shantanu Mittal and Dhruv Goel with the assistance of council members of DATUM.
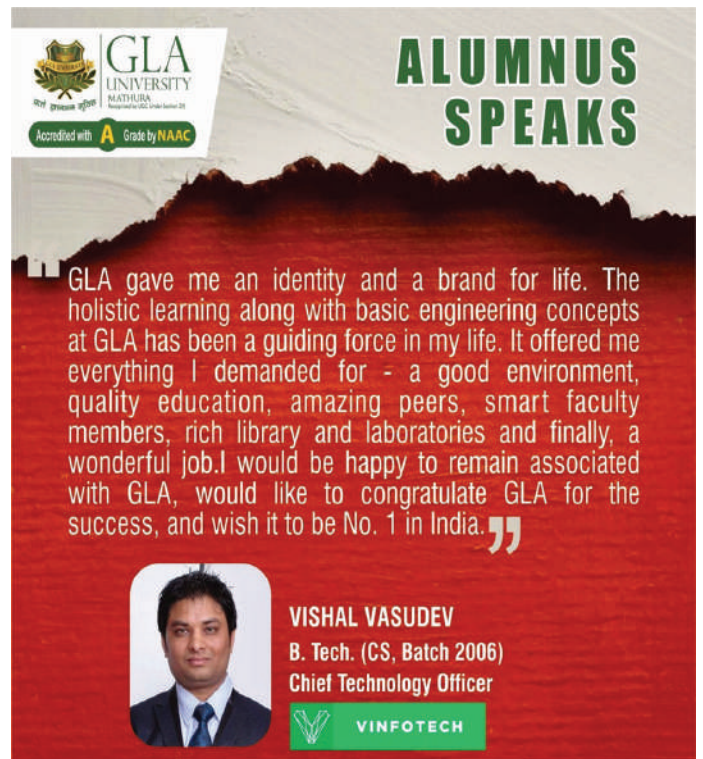
The agenda of workshop was Big Data and Hadoop, organized to make students aware about implementation of Hadoop framework to tackle big data problems. The participants enjoyed a lot and dispersed with a sincere hope that such mega events should be organized time and again giving the students a chance to display their skills.

▶ CRYPTICS "Cyber Security Quiz"

Department of Engineering and Applications organised a workshop under flagship of CYBERNOIDS. The workshop named Cyber Security Quiz under Abacus Society in the University campus. Which was conducted by Mr. Ambrish Gangal. More than 50 participants attended this workshop along with student coordiantors being Dibyanshu, Diwakar, Prafull. All the CSE students were a part of the elucidative programme.

▶ JAVAPIE 9.3

Department of Engineering and Applications organised a workshop under flagship JAVAPIE. The workshop named Web Development Using Node.js and Vue.js was oragnised by Mr. Ankur Chaturvedi. An interactive concourse ignited the inquisitiveness of participants.More than 50 participants attended this workshop

ALUMNUS SPEAKS

GLA gave me an identity and a brand for life. The holistic learning along with basic engineering concepts at GLA has been a guiding force in my life. It offered me everything I demanded for - a good environment, quality education, amazing peers, smart faculty members, rich library and laboratories and finally, a wonderful job.I would be happy to remain associated with GLA, would like to congratulate GLA for the success, and wish it to be No. 1 in India. 🗨

VISHAL VASUDEV
B. Tech. (CS, Batch 2006)
Chief Technology Officer
VINFOTECH

▶ JAVAPIE 20.3

Department of Engineering and Applications organised a workshop under flagship JAVAPIE. The workshop named Advance JAVA was oragnised by Mr. Ankur Chaturvedi. An interactive concourse ignited the inquisitiveness of participants. More than 80 participants attended this workshop

▶ SHE CODES (CODECHEF)

SHE CODES (Department of Computer Engineering and Applications) under Abacus Society and IEEE organized a workshop named Workshop on Advance JAVA. On the occasion of International Women's Day under the influence of Faculty Coordinators, Mr. Rajesh Kumar Tripathi and Ms. Aikta Arya. The workshop reflected profound knowledge on the topic and highlighted how important it is to escalate awareness on feminism.

▶ BLOCKLOGY (Workshop on Blockchain)

A4Algo CLUB (Department of Computer Engineering and Applications)organized a workshop named : Blocklogy (Workshop on Blockchain) on under the influence of Faculty Coordinator, Mr. Sachin Sharma and with the assistance of Ayush Kumar Gola, Raj Chouhan as student coordinators with No. of participants being 150. The chief guest distributed the certificates of participation among the volunteers. The workshop was partnered by Blocklogy Edutech Pvt. Ltd. Mumbai. The immense enthusiasm and zeal in the people to learn was the main driving factor. There was an atmosphere of learning and growing together.

ISCON 2019

Department of CEA is going to organize 4th International Conference on Information Systems and Computer Networks (ISCON 2019) from November, 21 – 22, 2019

For details, please visit:
http://gla.ac.in/iscon2019/

Student Article

Kunal Goyal
B-Tech (CSE) – IIIrd Year

Peace Formula

Peace is something very illusive. We don't have peace on earth, it seems as if the earth is going to pieces because nobody knows the formula to keep everyone together and that formula is God consciousness. So, unless we accept God as a predomination in our life individually and\collectively, there is no question of peace. All other attempts to bring peace are simply vague and futile. When you lock down a few dogs into a room, what would you expect ? Would you expect a very bubbly abode comprised with peace, happiness and contentment in the room? So similarly when we have a world full of people with animalistic propensity, what more can we expect than disturbance at the very least. Life in this world is full of suffering. Animals are incapable of understanding the suffering, but human beings can. One who does not knowthat he is suffering is in animal consciousness.

Animals may be standing behind a fence to be slaughtered, but they will be unaware of their fate. As human beings, we should be aware of the sufferings like the pain of birth, old age, disease and death, and we should be inquisitive to know how to avoid these miseries. We have been suffering from the beginning of our birth, being an infant, we were tightly placed for nine months in the womb of our mother. If we carefully analyse our lives, we will find that life is full of suffering.

The Root cause of our suffering-

The reason for this suffering is that the soul, being spiritual in nature, can relish spiritual pressure only in the service of god but now we are trying to knead out happiness from the materialistic things and luxuries, and as a matter of fact we all are enchanted by our materialistic desires that tends us towards lust , money, infatuation, gold, vast land or property, position, power, control over others, etc.

The soul cannot get happiness by exploiting material energy, nor by exploiting other living beings, who are the lords governing spiritual energy. Unfortunately, the living being is trying vainly to obtain its enjoyment from the foreign atmosphere of material nature. The living being is trying to artificially and foolishly play the role of enjoyer or master, which is not his constitutional position. This causes his suffering.

Pancha tantra Story:

Once all the senses of the body of a man came together for a meeting. There was a big quarrel about which part of the body is the most valuable. The eye said, "It is me who sees the food first. So I am the most important."The teeth said, "what is the use of you people seeing and smelling. Without me doing the job of crushing, no food can go to the stomach." The hand said, "It seems all of you people have forgotten me. Am I not the one who picks up the food and puts it in mouth?" The arguments went on for a long time. At the end they all arrived at a consensus: "All of us are important. But there is one useless person who does not do any work; but we are all working so hard to please him - the stomach ! Come let us all go on strike. Why should we please this person by feeding him when he is just in one place sitting and enjoying?"

The stomach did not say anything. When they all went on strike and did not supply food to the stomach gradually the legs become weak; they started trembling. The hand lost all its power and potential to do any work. The eyes were reeling. They all came together for a meeting and decided, "If we don't serve the stomach, then we only suffer. It is better that we serve him and become nourished ourselves." When all the parts of the body co-operated in supplying food to the stomach, then the whole body became nourished. In the above Panchatantra story, the stomach is compared to God; all the different senses are compared to the living entities, which are parts and parcels of God. Constitutionally we are servants of God and serving him with our heart and soul alone can bring us peace and happiness.

Peace Formula:

"bhoktāra yajña-tapasāḿ
sarva-loka-maheśvaram
suhṛdaḿ sarva-bhūtānāḿ
jñātvā māḿ śāntim ṛcchati" [Bg 5.29]

"A person in full consciousness of Me, knowing Me to be the ultimate beneficiary of all sacrifices andausterities, the Supreme Lord of all planets and demigods, and the benefactor and well-wisher of all living entities, attains peace from the pangs of material miseries."

We always try to enjoy and control a particular object, person or situation and being unable to do it, initially leads to stress. The Lord is an energetic entity and thus we are one of his energies. Lord is the Master and we are his servants. The lord is the Supreme and we are subordinate to him. The lord is absolute and we are only a part of him, contemplated to serve him. Everything belongs to God and nothing belongs to us. In light of fact it doesn't meant that one needs to leave everything, rather it conveys that one has to connect everything to God which would pave our way to glee, felicity and peace.

▶ The Fresher's function 2019 for Computer Engineering and Applications

The Fresher's function 2019 for Computer Engineering and Applications department brought with it many thrilling performances amid a memorable gathering of 1 & 2 year undergraduate engineering programmes namely BTech (Computer Science & Engineering), BTech -CSE with specialization in Cloud Computing, Data Analytics, AIML , IoT & Cyber Security along with BCA, MCA & MTech. The program was marked memorable as the top performances and role played by the students & for the students made the evening rememberable. The strength of approx 2000 - 2200 students of our department made the day mesmerized as they worked very hard so that the evening become successful.

▶ Train The Teacher (T3) Workshops by IBM

Department of CEA organized five different Train The Teacher (T3) workshops by IBM at the University campus. About 50 faculty members attended these workshops. There were five parallel workshops on topics, "Cloud Security", "Hadoop and Big Data Analytics", "Wireless Sensor Netwrork & IoT Standards", "IT Application and Data Security" and "Python". The attendees were briefed about the practical aspects of these technologies, their applications and modification. Workshop included the theoretical and practical studies carried out in board room as well as in computer lab

ALUMNUS SPEAK

The utmost support of GLA to inculcate culture, values and morale for entire development of my work-life balance is undeniable.

Thank you GLA!

Nishank Jain
B.Tech. - IT , Batch 2014
Software Developer
CSG International, Bangaluru

Guest Lectures Organized

▶ Guest Lecture on "AI in Healthcare Analytics"

Dept of CEA GLA University in association with IEEE Uttar Pradesh Section organized Guest Lecture on "AI in Healthcare Analytics" for MTech CSE First and Second Year students and PhD CSE scholars. Resource Person was Dr Rahul Katarya, Associate Professor, Dept of CSE, Delhi Technological University (DTU) Delh

▶ Guest Lecture on "Digital Marketing"

Department of CEA organized a guest lecture on "Digital Marketing" for BCA final year students. This guest lecture was taken by IT experts Mr. Akhil and Mr. Abhishek from Wunderman/MSE, Gurugram.

▶ **Career Counselling Session Organized**

Department of CEA organized a Career Counselling Session for Aspiring Engineers. This session was conducted by senior industry experts from IBM.

▶ **BoS Meeting Conducted**

Department of CEA conducted a BoS (Board of Studies) meeting to discuss, develop & finalize the curriculum of various courses run under the department. This meeting was conducted with external experts, members of BoS & university officials. External experts for this BoS were: Prof. R. K. Agrawal (JNU, Delhi), Prof. Vikram Goyal (IIIT Delhi), Mr. Rajesh Singh (Project Manager, HCL) and Mr. Satya Prakash (Senior Project Manager, Engineering. Aricent)

Seminar Organized

A seminar was organized by the department of CEA in association with IEEE Uttar Pradesh Section, IEEE CS Chapter U.P. Section on the topic "Artificial Intelligence Application for Modelling Gene Regulatory Network". Resource person of this seminar was Prof. Madhu Chetty, Federation University, Australia

Department of CEA in association with Clouds Lab, Univeristy of Melbourne, Australia, IEEE Uttar Pradesh Section, IEEE CS Chapter U.P. Section, organized a seminar on the topic "New Frontier in Cloud and Edge-Fog Computing for Big Data & IOT Applications". in association with Clouds Lab, Univeristy of Melbourne, Australia, IEEE Uttar Pradesh Section, IEEE CS Chapter U.P. Section. Prof Rajkumar Buyya, Univeristy of Melbourne, Australia was the resource person of this seminar.

Laboratory Inagurated

Prof. Raj Kumar Buyya, Director CLODS Lab, University of Melbourne, Australia; inaugurated "Cloud Computing Lab" at the department. Through this lab, Students & Research Scholars will learn the cloud architecture, its efficiency, and specific tools to provide virtualization on cloud. The lab enables the study and implementation of infrastructure as a service, storage as a service, and user management on cloud.

GLA UNIVERSITY MATHURA
Accredited with **A** Grade by NAAC

ALUMNI SPEAK...

Life and learning at GLA university campus have always interesting and on the go.
I appreciate the efforts of management and faculty members who left no stone unturned in order to nurture its students and ensure their all-round development with 360-degree career grooming.

ANAS ALI
B Tech-CS, Batch 2007
Program Manager
Royal Dutch Shell

Workshops Organized

▶ Workshop on IoT

Department of CEA along with Computer Society of India, Mathura chapter GLA student branch in association with IEEE CS, organized one day workshop on IoT. "Understating IoT Technology", "Major components in IoT implementation" & "IoT web based Services and applications" topics were discussed in this workshop.

▶ Workshop on GCP

GLOUD club of Department of CEA, organized a workshop on "Getting started with GCP" where Google Certified Professional Solutions Architect Mr. Kumar Utsav Anand, a student of BTech (CSE) – CCV IVth year; gave hands-on the basic services of Google Cloud.

Innovative Project Development

Gaurang Sharma
BTech (CSE) IVth year

Tanishi Srivastava
BTech (CSE) IVth year

Ankit Agrawal
BTech (CSE) IVth year

Department of CEA feeling proud of its students who development innovative projects. Three students of BTech (CSE) IVth year named: Gaurang Sharma, Tanishi Srivastava & Ankit Agrawal has developed a project titled, "Smart Saline Monitoring System". As we all know, Saline Bottle plays a major role in hospitals for the managing the illness of patients. Whenever the saline bottle gets emptied and needle is not removed from vein then blood flows towards the bottle which leads to severe pain and blood clotting. To prevent from this problem, we have developed a Smart Saline Monitoring System using IoT and Blockchain. In this system, saline bottle is automatically monitored and at the critical level, alert messages are send to all respective doctors, caretakers and nurses. This monitoring system fulfills the reliable delivery of messages which is very important for healthcare.

Smart Saline Monitoring System

Puzzle to Puzzle

For our readers, Ping has taken another initiative as to provide a technical puzzle to puzzle you. In each & every issue of ping, we will bring a crossword to you on any topic related to Computer Science. Answers of this crossword will be published in the respective next issue. Given puzzle is based on *Python Programming* & provided by *Tanishi Srivastava.*

Tanishi Srivastava
BTech (CSE) IVth year
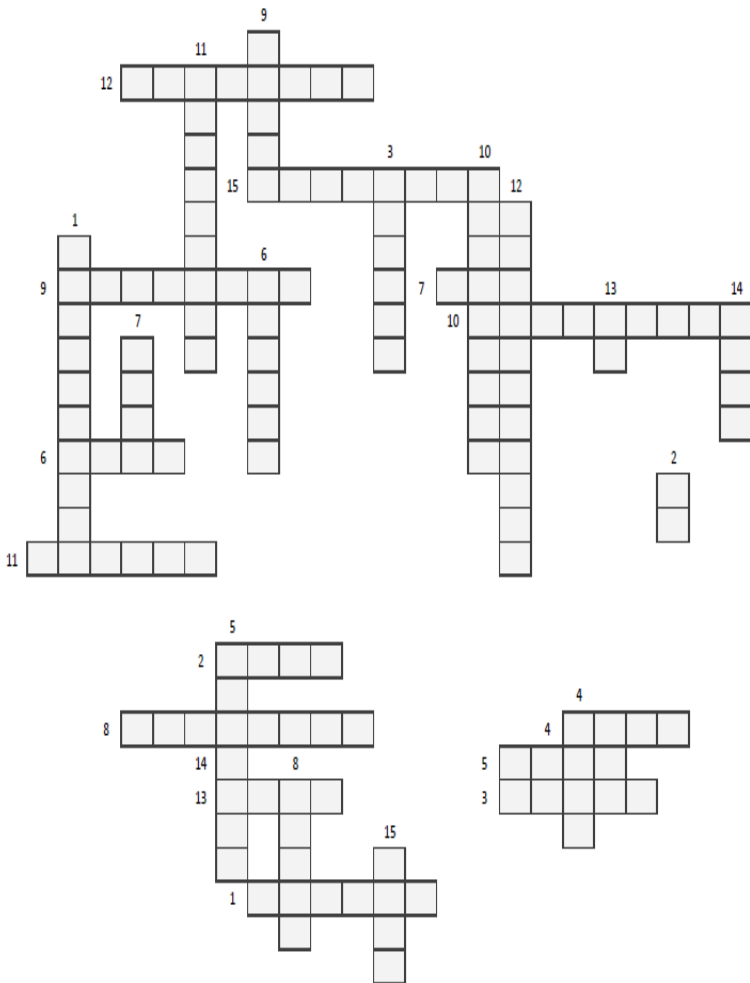
Horizontal

1. What is called when a function is defined inside a class?
2. What is simple but incomplete version of function?
3. Which collection type data structure is immutable in Python?
4. Which keyword is used as place holder in compound statement?
5. What is the output of the following?
print('abef'.replace('cd', '12'))
6. Given a function that does not return any value, what value is shown when executed at the shell?
7. Which is the unordered collection data type with no duplicate elements?
8. Who is the storage container for data?
9. What are containers for objects so that you can loop over the objects?
10. What is method of breaking a problem into sub problems of same type?
11. Which language is dynamically typed?
12. What is block of organized containing reusable code?
13. What is the special Python method that is automatically called when memory is allocated for a new object?
14. What is the output?
print(chr(ord('b')+1))
What is the way to convert a python object into a character stream?

Vertical

1. Which data structure defines one-to-one relationship between keys and values?
2. What will be the output of 7^10 in python?
3. What is the anonymous/inline function?
4. What is the style guide for Python?
5. Which mechanism is used to select a range of items?
6. What represents a distinctly identifiable entity in real world?

7.Which string method which returns a string concatenated with the elements of an iterable?

8.Which string method is used to find index of character?

9.Which method is related to leading and trailing characters in string?

10.Which tool is used for creating iterators?

11.What is called names to objects mapping?

12.Syntax error in python is detected by _____.

13.For regular expressions, which module is needed to import?

14.Which object is returned by functions that don't explicitly return a value?

Which method can convert any value to a Boolean?

Placement Record Session 2018-19

Today, GLA University, Mathura is one of the preferred Universities for a large number of organizations for recruiting our graduates. The biggest names in the corporate world visit the campus on a regular basis, with enviable recruitment offers. There is tremendous competition amongst companies to visit the campus to recruit the best talents of our department. Department of CEA has been the traditional recruitment target for many organizations.

GLA University, Mathura got tremendous placement opportunity as record 27 & 05
students got selected in Tata Consultancy Services through TCS CodeVita & in Infosys through HackWithInfy respectively.

TCS CodeVita, is a contest for engineering and science students to experience the joy of coding and to sharpen their programming skills through real-life computing practices. The contest also aims at identifying the talent, besides providing the student community, an opportunity to earn peer recognition. TCS is promoting learning through fun and contests like CodeVita as programming is becoming the skill for future and provides a fast gateway to technology career.

HackWithInfy is an extraordinary initiative for students to inculcate the culture of rapid problem-solving and innovative thinking from early on. The program not only provides the perfect stepping stone for students to explore their passion for programming, but also an opportunity to compete and earn a chance to work with Infosys.

Department of CEA has placed itself in the pioneering position in providing quality placement opportunities. With over 650 placement offers and 80 placement drives, the department has emerged as a leader in placements. The T&P cell of University aims at inviting companies from various industries offering hefty pay packages. Some of the companies having recruited students from Department of CEA include Microsoft Corporation, Wipro Ltd., Capegeimi Consulting India (P) Ltd., TCS, Torry Harris Business Solutions, NIIT Technologies Ltd., Motherson Sumi Infotech & Design Ltd., Concentrix Corporation, British Telecom, ShopClues etc. with highest package Rs. 9.08 Lacs per annum. As a mask recruitment 141 & 136 students of department got placement in Wipro Ltd. & Capegeimi Consulting India (P) Ltd. respectively

▶ Our Esteemed Recruiters

Announcments

▶ Call For "Student of the Semester"

Department of CEA, GLA University; Mathura started an initiative to promote healthy competition among students; by declaring "Student of the Semester" from each course of the department (year wise).

For this, students can nominate themselves and the same will be scrutinized by respective class advisor, year coordinator, program coordinator & HoD – CEA on following parameters –

1. Any excellent project undertaken,

2. Participation and achievements in any online coding / programming / project challenge (e.g. GeeksforGeeks / CodeChef / HackerRank / LeetCode / HackerEarth etc.),

3. Certification in any online course (e.g. NPTEL / MOOC / Coursera etc.),

4. Representation of University at external level in technical / cultural / sports events,

5. New Innovations,

6. Research publications (especially MTech students),

7. Tremendous Placement achievement (applicable for pre final & final year students),

8. GATE / MAT or any other competitive examination with good rank,

9. Academic achievements,

10. Etiquettes etc.

Department will declare such students in the month of January & July every year on the basis of above set of parameters. These students will be awarded with some lucrative prizes. To nominate themselves, students can send their entries to their respective class advisors latest by and 15th December'19. Students can collect their nomination form from their respective class advisor / year coordinator / program coordinator.

▶ Call For "Programming Excellence Award"

Department of CEA, GLA University, Mathura is glad to announce that to promote coding expertise and having an intension to develop healthy ecosystem for coding, thinking & logical ability among students, we have started an initiative to give excellence awards for students who participate and got good rank in any online coding / programming (e.g. GeeksforGeeks / CodeChef / HackerRank / LeetCode / HackerEarth etc.)

These awards will be in following categories:

1. Best rank holders in BTech (CSE) Yr. wise,

2. Best rank holders in BCA &;

3. Best rank holders in MCA.

To take part in it, students have to submit their valid score / rank card to respective Class Advisor / Year / Program Coordinator latest by 15th December'19.

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Department of CEA's e-Newsletter
Thought...Emotion...Information...