DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

TECHKNACK

eNewsletter

GL BAJAJ
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GL BAJAJ GROUP OF INSTITUTIONS, MATHURA

What's Inside

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Learning is a lifelong process. Education is more important affair in our life than learning or being literate. The newsletter is a good way to learn about developments and activities and let others know. I congratulate all the people who have been associated with this publication.
Dr. R K Agrawal
Chairman

It is wisely said that change is the only thing that is permanent in life. So be it, for the department as well. I congratulate the editorial board, advisory board and the department for online publication of Vol.5, Issue 1 of eNewsletter. I hope everyone would be benefited with it.
Mr. Pankaj Agrawal
Vice-Chairman

Working towards the overall development of the Computer Science and Engineering Students, the department is committed to bringing the best out of the students. The students are trained to struggle and conquer the international standards and platforms. The students are a globally accepted workforce and dedicated to the nation. They are leaders to start their own startups and employ the workforce. I wish all the best to the department for its flagship endeavour.
Prof. (Dr) Neeta Awasthy
Director

- *New Joinings* -

⬟ **Er. Gaurav Kumar-** joined us as an Assistant Professor. He completed his M.tech in CSE from IIT Goa in 2021. His M.Tech thesis is on Bayesian model for decision making in multi-objective optimization. His interest lies in machine learning and multi-objective optimization.

⬟ **Er. Ankur Sisodia-** joined us as an Assistant Professor. He has done M.Tech in Computer Science & Engineering from AKTU, Lucknow. He is pursuing Ph.D. (CSE) from Banasthali Vidyapith, Rajasthan. He has two patents with the intellectual property division of the Government of India. He has published two Scopus research papers in different journals, one research paper in UGC journal, one book chapter in Springer, and many research papers in peer-reviewed journals. He has also presented many papers in international and national conferences. He has more than 5 years of teaching experience.

⬟ **Er. Medha Khenwar-** joined us as an Assistant Professor. She has done B. Tech from Suresh Gyan Vihar University, Jaipur and M. Tech (CSE), from Swami Keshvanand Institute of Technology, Jaipur. She has one patent and published one research paper. She has 1 year experience of teaching.

⬟ **Er. Shiv Shanker Singh-** joined us as an Assistant Professor. He has done B. Tech. from G.B.P.U.A.T, Pant Nagar, Nainital and M.Tech in Computer Science from Agra University. He has more than 18 years of teaching experience. He has published 1 research paper and one Patent into his credit. His area of research interest is Memory Organization.

⬟ **Mr. Rahul Sharma**- joined us as a Quantitive Aptitude and Reasoning Trainer. He has more than 11 years of teaching experience in various organizations. He has been awarded with best faculty award in Maths and Reasoning in KCA GURUKUL Coaching Agra.

⬟ **Mr. Shiv Kumar-** joined us as a Trainer of Verbal Ability. He has more than 8 years of teaching experience in various organizations. He is the founder of "Chanakya Institute of Career Solution" and Author of "Chanakya's English". He also worked as HOD in Paramount Pvt. Ltd.

⬟ **Mr. Deepak-** joined us as a Lab Technician. He has completed BCA from Rajiv Academy for Technology & Management, Mathura. His interest lies in computer programming.

- *Departmental Activities* -

This event was held on 5th September, 2021 through Google Meet. This event was anchored by students, Himanshi Gupta and Mantra Chaddha. Dr. Rama Kant Baghel, HOD, CSE welcomed chief guest Mr. Arun Kumar Singh, CEO, Ilantus Technologies, Director Prof Neeta Awasthy and whole team of our institute. He started his speech with famous quote **"Engineering is the professional art of applying science to the optimum conversion of natural resources to the benefit of man"**. He also said that the day is the birthday of Sir Mokshagundam Visvesvaraya, an eminent Indian engineer and statesman. Dr. Baghel enlisted the technical events to be held for whole day. The events were as follows.

1. **Make you Placement Ready 2.0 (Webinar Series-2)**
2. **Hackathon**
3. **Quiz**
4. **Lan Gaming & Innovative Ideas**

More than 100 students participated in the events. Dr. Baghel requested to Director Prof. Neeta Awasthy to inspire the students by throwing light on the life of Sir Visvesvaraya. Prof. Awasthy said **"Today is the birth anniversary of the virtuous Bharat Ratna Sir Mokshagundam Visvesvaraya who showed India the path of development through his work. Today our country is moving fast on the path of progress and the whole world is impressed by the skills of our engineers"**. Chief guest, Mr. Arun Kumar Singh narrated many of his memoirs and advised that one should keep doing something new in one's life. MoU was signed between GL BAJAJ Group and Ilantus Technologies. Technical events were coordinated by CSE department. Registrar, Mr. Vipin Dhiman delivered formal vote of thanks.
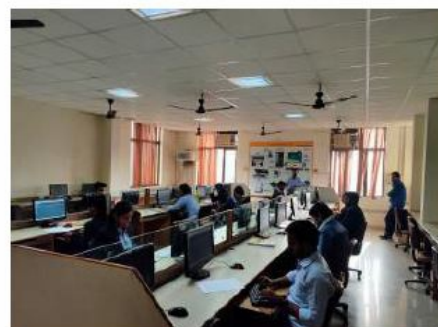
Innovative Ideas

Quiz Master

LAN Gaming

Hackathon

- *Departmental Activities* -

Details of the technical events held on the Engineer's Day and their winners are below-

Event No.	Event Name	Student Coordinators	Winners (Rankwise)	Year
1	Hackathon	Swantantra Gupta & Shubham Sharma	1. Vaibhav Kulshreshtha 2. Pranjal Kulshreshtha 3. Mohit Gola	3rd 3rd 3rd
2	Quiz Master	Goldi Sharam & Harshita Pandey	1. Sunil 2. Devanshu Sharma 3. Vishal Chaudhary	2nd 3rd 2nd
3	Innovative Idea	Shama Akthar & Devesh Kumar	1. Shweta Swarup	3rd
4	LAN Gaming	Deepak Chaudhary & Shubham Kumar	BGMI- Vishal Chaudhary Chess- Mukesh Gupta	2nd 2nd

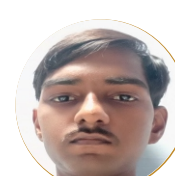Mr. Vaibhav Kulshrestha   Mr. Pranjal Kulshrestha   Mr. Sunil Kumar   Mr. Devanshu Sharma   Mr. Vishal Chaudhary   Mr. Shweta Swarup   Mr. Mohit Gola

Lecture No.	Date	Lecture Title	Guest	Faculty Coordinators
1	20.09.2021	Introduction to Cloud Computing and how to be industtry ready	Er. Abhijeet Singh (Azure Cloud Engineer, Microsoft, Austrailia)	Er. Sachin Upadhyay
2	23.09.2021	Building Data Science Applications with Python	Dr. Mohd. Aamir Khan	Er. Jayati Krishna Goswami
3	24.09.2021	Introduction to Big Data and how to be industry ready	Er.Rituraj Dixit (Technical Lead, Cognizant Tech. Soln., Singapore)	Er. Sachin Upadhyay

Entire technical events were well supported by whole team of CSE department. Students competed among themselves and gave their best in this competition.
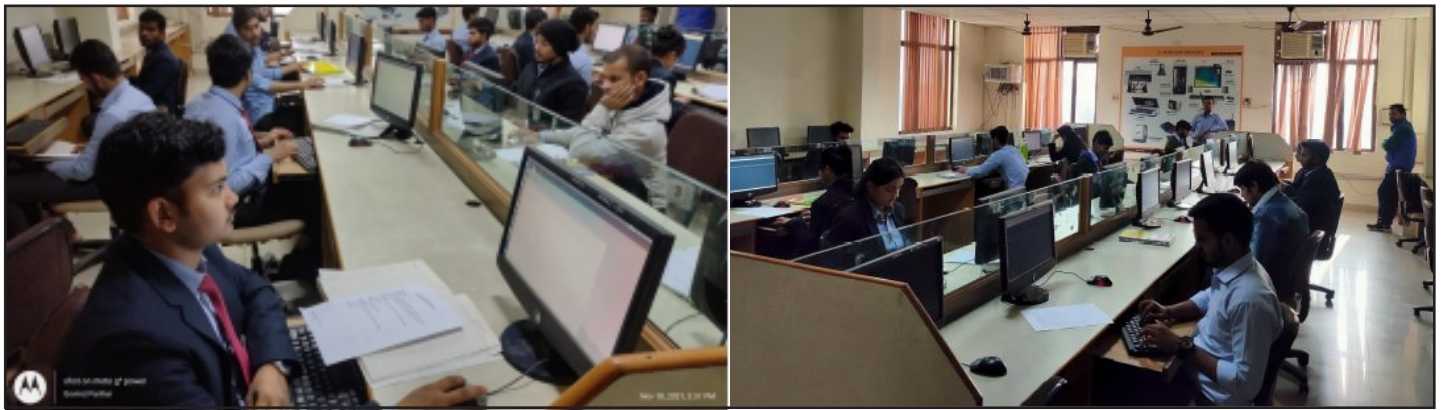
- *Departmental Activities* -

Code Squad Hack 5.0

This event was for second year CSE students only to make them familiar with coding questions that could be asked in placements and to test themselves and make them placement ready. The event was carried in two phases. First phase was organised on 18th November, 2021. This phase comprised of two coding problems - one basic level problem and one intermediate level problem. Duration for the first phase was one hour. In this phase 11 students qualified for the second phase.

Second phase was held on 24th November, 2021. Level of questions were increased in this phase. There were two coding problems- one intermediate level and other one expert level. All the students gave their best and completed the questions. We set the timer to find out winners among them. At the end of the second phase, winners names were announced.

Winners details are given below

1st Prize -   Vishal Chaudhary
2nd Prize-   Ayush Gupta
3rd Prize-   Srashti Agrawal

Mr. Vishal Chaudhary

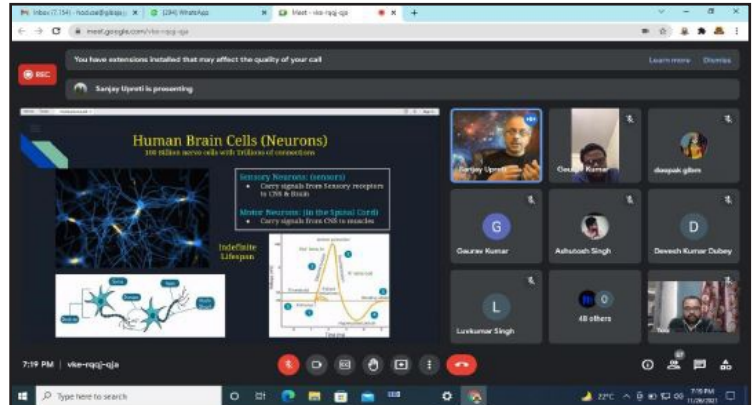
Mr. Ayush Gupta

Ms. Srashti Agrawal

Entire session was well supported by CODESQUAD-Coding Club of CSE department. The event was successfully coordinated by Asst. Professor Er. Jayati Krishna and student coordinator Mr. Sagar. Every student gave his best in this event. The students who could not clear any phase, they were advised to enhance their coding skills and be prepared for next coding event.
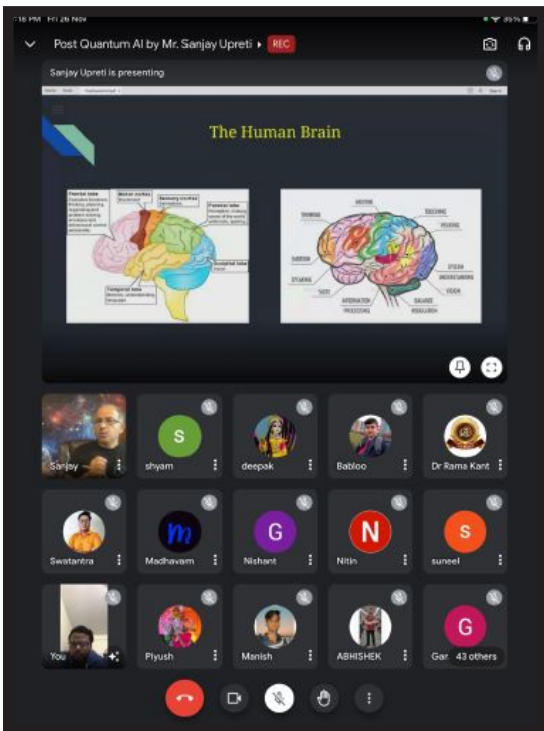
- *Departmental Activities* -

Webinar on Post Quantum AI

This webinar was held on 26th November 2021 and organized by CSE department of GL BAJAJ Group of Institutions, Mathura. HOD CSE, Dr. Rama Kant Baghel welcomed Director Prof. Neeta Awasthy and speaker, Mr. Sanjay Upreti. Prof. Neeta Awasthy welcomed the speaker and started the session with her motivational note after that Er. Gaurav Kumar welcomed the speaker, Mr. Sanjay Upreti, a senior engineer and data scientist at IBM Corporation USA. He holds 8 US Patents in chip design simulation areas as well as in Post Quantum Cryptography Techniques. He delivered a talk on the topic "Post Quantum AI". He started with the concept of Artificial Intelligence which he considers that most of today's AI is human-centered AI or augmented intelligence. He covered a variety of subdomains in AI like Robotics, Expert Systems, Machine Learning, Natural Language Processing, Vision, etc and discussed a variety of tasks that we perform under the above-mentioned subdomains.

He briefly covered Artificial Neural Network and the most advanced AI systems like IBM Watson and AlphaGo and some of the challenges in AI/ML using classical computers, like in ML some problems are extremely computing-intensive, requiring massive parallelism. Some tasks of AI are near-exponential in nature. He gave a brief overview of classical computers and discussed their limitations. He explored the emergence of Quantum Computing and described some of the features of Quantum computing like Duality, Uncertainty, Probabilistic, Decoherence, Superposition, Interference, Entanglement. He discussed also the Qubit and its properties like superposition, interference, entanglement and briefly covered quantum noise and quantum error.

In the last phase of his presentation, he covered AGI (Artificial General Intelligence) and outlined the major challenges for AGI like AI ethics, morality, and deliberate bias. He briefly explained the security implications of the future quantum computers.

Once the presentation ended, the Q&A session started. Coordinator of this event, Er. Gaurav Kumar outlined the summary of the talk and delivered a formal vote of thanks for the session. The total number of 166 participants has shown presence during the session. All participants appreciated the session. The medium of this event was virtual (Google Meet).

- *Departmental Activities* -

Workshop of Cyber Security

A two-day workshop was held on 25th and 26th, November, 2021 to know about various cyber security threats and their prevention. This workshop was organized by Mr. Rahul Mishra who is a **Cyber Security Advisor** of **UP Police**. He is also working as a cyber-consultant with **Innovative Ideas Info-Tech** which is the largest NGO of the country working on eradicating the cyber crime by spreading awareness among students and citizens. He has played a major role in the NGO Innovative Ideas InfoTech to spread awareness on topics like Call/ SMS spoofing, Mail Spoofing, Bank Frauds, ATM Card cloning, social media scams and various other latest Cyber Crimes. He gave a detailed presentation on the above-mentioned topics.

Er Medha Khenwar & Er Gaurav Kumar were the coordinator of this event and entire two day workshop was organized under the guidance of CSE Head, Dr. Rama Kant Baghel.

Local Visit in Mathura- Recreational Activity

One day local tour is planned to visit nearby places (Museum, Raman Reti, 84 Khamba and Chintaharan Mahadev) of Mathura on 13th November, 2021 for B.Tech second year students. The visit was organized with the prior permission and guidance of Director Prof. Neeta Awasthy and Head, CSE, Dr. Rama Kant. Total 83 students along with 7 faculty members, 2 lab technicians and 1 attendant joined this tour. The main objective of this educational tour was to spread awareness about the historical places and to interact, learn and understand the traditional culture and lifestyle of Brijbhoomi.

- *Faculty Achievements* -

Patent No- 1
Title: Artificial Intelligence and IoT based Safe Route Detection and
Evacuation through Ant-colony Optimization
Application No. :   202241000872 A
Publication Date : 21/01/2022
Name of Inventor :Dr. Rama Kant, Er. Sanjiv Agarwal, Er. Sachin Upadhyay,
Er. Sanjiv Kumar Singh, Er. Brijesh Kumar Gupta, Er. Ankur Sisodia,
Er. Jayati Krishna Goswami, Er. Santosh Kumar Swarnkar

Patent No- 2
Title: System and Method for Managing Medication
Application No. :   202131060719 A
Publication Date : 21/01/2022
Name of Inventor :Er. Brijesh Kumar Gupta

Patent No- 3
Title: A Novel Method For Deep Learning Architecture For Cognitive
Examination Subscore Trajectory Prediction In Alzheimer's Disease
Application No. :   202141060681 A
Publication Date : 21/01/2022
Name of Inventor :Ms. Medha Khenwar

Patent No- 4
Title: Convergence of BlockChain and IoT for Secure Transportation Systems
in Smart Cities
Application No. : 202241004100 A
Acceptance Date: 04/02/2022
Name of Author: Er. Shiv Shanker Singh

Book Chapter: 01
Title : To Brace Society 5.0: Enhanced Reliability with a Cost-Effective
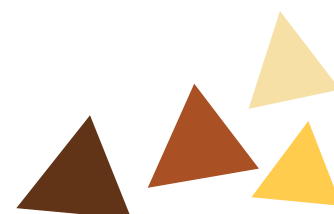Protocol for Underwater Wireless Sensor Network
Nature: Springer
Acceptance Date: 29/01/2022
Name of Author: Er. Ankur Sisodia

Note:- All the patents are in the process of being getting granted.

Dr. Rama Kant Baghel

Er. Sanjiv Agrawal

Er. Sanjiv Kr. Singh

Er. Brijesh Kr. Gupta

Er. Santosh Swarnkar

Er. Sachin Upadhyay

Ms. Medha Khenwar

Er. Shiv Shanker Singh

You did it!
Congratulations

- *Faculty Achievements* -

Research Paper : No. 1
Title : Exploration In Covid-19 Pandemic: Analysis and Assessment of Online
Learning with Offline Learning in the Context of Students
JOURNAL: The Online Journal of Distance Education and eLearning
Publication Date: Volume 9 - Issue 4 - October 2021
Nature: UGC approved ISSN (2147-6454)
Name of Author: Er. Ankur Sisodia

Er. Ankur Sisodia

Research Paper : No. 2
Title : Diagnosis of Fouled Milk using Internet of Things
International Conference : Machine Learning and BlockChain Technologies (MLBT-2022)
Organizer : Sanskriti University, Mathura
Publication Date: 31/03/2022
Name of Author: Er. Ankur Sisodia

Research Paper : No. 3
Title : A Texture Features-Based Robust Facial Expression Recognition"
International Journal of Computer Vision and Image Processing
JOURNAL: International Journal of Computer Vision and Image Processing
Publication Date: 12.01.2022 : 1-15
Nature: UGC approved
Name of Author: Er. Jayati Krishna Goswami

Er. Jayati Krishna

- *Extra Curricular Activities* -

Corporate Social Responsibility

Dr. Rama Kant, HOD, CSE visited the nearby Inter College "CSRV, Chaumuhan, Mathura" for a guest lecture on Introduction to Information Technology and its trending fields and future prospective along the line. The students requested him to support them in their practical experiment of DBMS. Taking cognizance of the request, a session was organized for the students in coordination with CSRV Inter College. In this session, a three hour DBMS Lab was organised by CSE department for the 10th class students. This session was held on 15th April, 2022 in Seminar Hall of our College Campus. The entire 3 hour DBMS lab session was conducted by Asst. Prof., Er. Santosh Kumar Swarnkar. More than 150 students benefited from this session.

- *Student Achievements* -

- Sagar & Shivam Sharma (3rd year) secured 3rd Rank in 'Coding Competition' organized by Geeks for Geeks in NOIDA. Both students also received certificates and medals for their achievement.

- Sagar (3rd year) was rewarded an honorarium of Rs. 40,000 for his excellent work in Internship software development from a renowned company named "Destico India Pvt Ltd."

- Dr. Abdul kalam Sports Fest 2021-22 (Zonel Level Event) was held on 22 and 23 November, 2021 in Hindustan College of Science & Technology, Mathura. In this event ten student of CSE department was awarded with GOLD medal.

Name of the Event	Name of Student(s)	Year	Position
Table Tennis (Doubles)	Harshit Yadav, Paras Kumar Singh, Shivani Awasthi	2nd	1st (Gold)
Table Tennis (Doubles)	Abhishek Kumar, Km. Pratima Kant	3rd	1st (Gold)
CHESS	Shubhanvi Bansal	2nd	1st (Gold)
Athelitcs Boys (4x400 M)	Gaurav Upadhyay	2nd	1st (Gold)
Athelitcs Boys (4x400 M)	Sahil	4th	1st (Gold)
Athelitcs Boys (Shortput)	Tushar Dixit	3rd	1st (Gold)
Athelitcs Girls (4x400 M)	Rashmi Gupta	2nd	1st (Gold)

- *Alumni Connect Program* -

In this program distinguished Alumni come and share their views with the Institute, the department and students. It provides a good platform for feedback to the Institute and the department. It also provides a mean for interaction among students with their seniors as technocrats. Alumni also provide the knowledge of cutting edge technologies to the students.

(Mr. Sanjay Bisht, Mr. Dhruv Sharma and Mr. Yogesh Kumar, Alumnus of 2020 Batch with Er. Jayati Krishna, Er. Santosh Kumar, Er. Sanjiv Agrawal, Dr. Rama Kant Baghel, Er. Sachin Upadhyay and Er. Sanjiv Singh)

(Mr. Virendra Kumar (Batch- 2017), Ms Yukti Agrawal, Mr. Praful Agrawal and Ms. Arzoo Ahuja, Alumnus of 2021 Batch with Er. Jayati Krishna, Er. Santosh Kumar, Er. Sachin Upadhyay, Er. Sanjiv Singh, Dr. Rama Kant Baghel and Er. Sanjiv Agrawal)

Message from Editor-in-Chief

Dr. Rama Kant
Editor-in-Chief

We are glad to bring out the Issue 1 of Vol. 5 of our e-Newsletter TECHKNACK, carrying forward our agenda of sharing information related to CSE Department. This issue features variety of information like faculty achievements, departmental activities, new joinings, Alumni meet and student achievements etc.

I really appreciate the efforts done by Er. Jayati Krishna Goswami, Assistant Professor; Er. Gaurav Kumar, Assistant Professor; Mr. Shiv Kumar, Trainer of Verbal Ability; Mr. Govind Ram, Programmer cum Technical Assistant. TECHKNACK is thankful to all who contributed to this issue. We are open to comments, criticism and suggestions to make it more informative.

Er. Jayati Krishna
Team Member

Er. Gaurav Kumar
Team Member

Mr. Shiv Kumar
Team Member

Mr. Govind Ram
Team Member

OUR TOPPERS

Vardaan Raj Singh
82.93%

4th Year TOPPERS (7th Sem)

1. Vardaan Raj Singh (82.92%)
2. Utkarsh Agrawal (80.71%)
3. Gaurav Agrawal (79.06%)

3rd Year TOPPERS (5th Sem)

1. Vaibhav Kulshrestha (91.78%)
2. Pranjal Kulshreshtha (87.89%)
3. Sakshi Sharma (87.78%)

Vaibhav Kulshrestha
91.78%

STAR PLACEMENT

Mohan Hamal
25 LPA
zoom

Sadain Kazmi
20 LPA
PLAYSIMPLE

Vardan Raj Singh
14.5 LPA
CISCO.