TechByte

A Newsletter from the Department of Computer Science & Engineering

(2021-2022)

Volume -III

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Department of Computer Science & Engineering

Vision and Mission ofthe Department
Vision

To be a Model in Quality Education for producing highly talented and globally recognizable students with sound ethics, latest knowledge, and innovative ideas in Computer Science & Engineering.

MISSION

To be a Model in Quality Education by

M1: Imparting good sound theoretical basis and wide-ranging practical experience to the Students for fulfilling the upcoming needs of the Society in the various fields of Computer Science & Engineering.

M2: Offering the Students an overall background suitable for making a Successful career in Industry/Research/Higher Education in India and abroad.

M3: Providing opportunity to the Students for Learning beyond Curriculum and improving Communication Skills.

M4: Engaging Students in Learning, Understanding and Applying Novel Ideas.

Program Specific Outcomes (PSO)

At the end of the program, the student

PSO1: Should be able to apply the Concepts of Mathematics, Algorithms, Data Structures, Programming Languages, Databases, Multimedia, Operating Systems, Computer Networks, Computer Architecture, Big Data Analysis, Artificial Intelligence and Machine Learning to solve computation tasks and develop applications of varying complexity.

PSO2: Should be able to understand and make a contribution in the areas of Computer Science & Engineering through the design & planning of Software based real-world applications and also demonstrate professional ethics & concern for social well-being.

Program Educational Objectives (PEO)

After 3-5 years our graduates will be:

PEO1: Have a successful carrier in Industry, Government, or other working environments as a Computer Engineer with an ability to solve a wide range of real life problems.

PEO2: Exhibit Good communication skills, Ethical conduct and sense of responsibility to serve the society and protect the environment.

PEO3: Be knowledgeable, inspired and a valued professional in the different working surroundings.
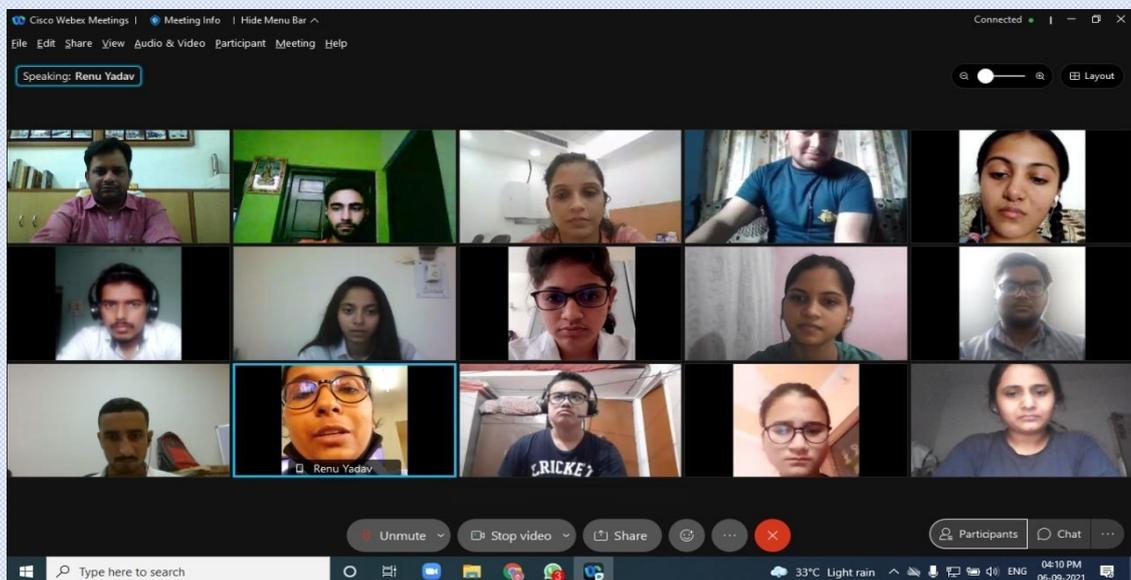
Country Living

"You have to expect things of yourself before you can do them."

—Michael Jordan

Events, Activities & Guest Lectures

- BRCM CET singed MOU with Amazon to become authorized Amazon Academy for -AWS Certification- programs in Cloud and Machine Learning.

- To enhance students English Communication Skills and to provide foreign exposure we signed MOU with Imperial English UK Institution- UK for certification courses and foreign exchange program.

- T&P organized Campus drive for Motilal Oswal. Two students Ashwini & Naveen got selected for final interview.

- Organized a Webinar on "How to prepare for Govt Job" in Banking / Insurance & other sectors on Aug 17, 2021 at 12:00 Noon in association with SSB.

- Campus drive of "REPOZITORY" on 21st August, 2021. Twenty-five students from B.Tech. CSE participated in an online technical test. Finally, the company selected Ms. Sristi Jain and offered her a package of 3.6 LPA.

- Campus Drive of "Pep Coding" was organized on 28th August for B. Tech students. Company is offering for Software Development & Content team and offering 9LPA. Ms. Riddhi Kejriwal from B. Tech CSE got selected

- CJ Darcl Campus Drive organized on 11th September, 2021. Students from B.Tech. CSE 2022 Batch participated and result will be announced soon.

- Daffodil Software pool campus drive conducted on 16th September, 2021. Students of BRCM & nearby colleges from B.Tech./ M.Tech. & B.Sc. Computer Science Batch 2022 participated and four students are selected.

- CedCoss Technologies campus drive conducted on 20th September 2021. Students from B.Tech. CSE & EE 2022 & 2021 batch participated.

- Intellect Partners campus drive conducted on 23rd September, 2021. Students from B.Tech/ M.Tech./B.Sc. CSE & EE of Batch 2022 participated and Suryanshu from B. Tech CSE got selected as Patent trainee.

- The Training & Placement Department organized Webinar on "Digital Marketing" on 28th October, 2021.

- Campus Drive of India Bulls, Gurgaon was organized on 29th November for B.Tech. 2018-22 students. Company is offering for Software Development and offering 2.5 LPA. Ms. Dipika Sharma from B. Tech. CSE 2018-22 batch got selected.

- T & P Cell is in process to sign MoU with iSchool Connect Technologies Pvt. Ltd for providing career and future education-oriented guidance to individuals who are students of BRCM. iSC will be involved in physical as well as online activities that will aid the leads to seek a suitable future admission to a degree program worldwide or develop the requisite soft skills that shall help them secure a job within the local country.

- Students of batch 2018-22 are registered with Firstnaukri.com. All student accounts were created. As students update their profile on Firstnaukri portal shortly students will receive opportunities.

- T & P cell organized online Campus Drive of Big O Notation (OPC) Pvt. Ltd on 3rd December for B.Tech. batch 2018-22 students. Mr. Vikas Pilania from B. Tech. CSE 2018-22 batch selected in this drive.

- T & P cell organized off Campus Drive of Mobiloitte on 8th December for B. Tech. batch 2018-22 students. Company is offering position of Software Developer with 2.1 LPA. Mr. Suryanshu, Mr. Vasu Saini and Mr. Vikas Pilania from B. Tech. CSE 2018-22 selected in this drive.

- Conducted a two-day workshop on 10th and 11th December at BRCM College of Engineering and Technology, Bahal for B.Tech. and B.Sc computer Science Students. The keynote speaker in the program was Shri Debaprasad Ray (Senior Manager) VEST (Virtual Engineering Services Private Limited). He delivered his talk on resume writing, group discussion session and personal interview.

- T & P cell conducted online Campus Drive of Black Olive Ventures Pvt. Ltd. on 15th December for B. Tech. Civil branch 2018-22 students. Company is offering position of Valuation Database Drafter with 1.8 LPA.

- T & P organized One Day industrial visit on 24th December to "The National Small Industries Corporation (NSIC)" Government of India Enterprise, Okhla, New Delhi. B.Tech final and prefinal students from BRCM CET and B.Sc final year students of GDC Memorial College had visit NSIC.

- Online Campus Drive of Nagaroo Software was organized on 4th January, 2022 for B. Tech. students. Company is offering position of Software Developer with 4.5 LPA. Mr. Vasu Saini from B. Tech. CSE got selected in first round.
- Online Campus Drive of Repozitory was organized on 4th January, 2022 for B. Tech. Students. Company is offering position of Junior Software Development Engineer with 4 LPA. Mr. Kartik from B. Tech. CSE selected.
- Online Campus Drive of Kranti Tech was organized on 4th January, 2022 for B. Tech. CSE and EE students.
- Online Campus Drive of BYJU'S was organized on 22th January, 2022 for B.Tech. students. Company is offering for Academic Specialist position with 3.6 LPA. Mr. Manish Kumar from B. Tech. CSE got selected in first round.
- T & P cell singed MoU with Edify Educational Services Pvt. Ltd, Hyderabad on 31st January, 2022 to provide students better training and placement opportunities. They Provide access to a world of knowledge across rising technology demands and helping its learners acquire industry specific skills.
- Online Campus Drive of Virtual ways was organized on 8th February, 2022 for B.Tech. students. Company is offering for Programmer and offering 5.4 LPA. Mr. Manish Kumar from B. Tech. CSE selected in this drive.
- Online Campus Drive of Austere Systems Pvt. Ltd. was organized on 12th February, 2022 for B. Tech. students. Company is offering for Trainee-Developer and offering 3.6 LPA. Mr. Abhijeet Kumar from B. Tech. CSE selected in this drive.
- Internship Drive of Geeks for Geeks was organized on 11th March for B. Tech. students. Company offered position for intern (Technical Content Writer). Ms. Aarti Mujumdar from B. Tech. (CSE) selected for this program.
- Online Campus Drive of Mobiloitte was organized on 27th April, 2022 for B.Tech./M. Tech. students. Company is offering for Software Development and offering 2.1 LPA. Mr. Chandan Kumar, Mr. Chiranjivi and Mr. Hitesh Bhardwaj of B.Tech Final year selected.
- Online Campus Drive of Innostax was organized on 15th May, 2022 for B. Tech students. Company is offering position for Associate Software Engineer. Mr. Vikash Pilania B.Tech CSE selected for the same.
- Online Campus Drive of Austere Systems Pvt. Ltd. was organized on 16th May, 2022 for B. Tech students. Company is offering position for Trainee-Developer with 3.6 LPA. Mr. Vasu saini from B. Tech (CSE) selected for the same.
- Guest Lecture for CSE students on the topic of "New Challenges in IT Sector" delivered by Mr. Nitin Goel from Repozitory Technologies Private Limited, Hisar on 17th June 2022.
- Akami Technologies India Pvt. Ltd. Campus placement opportunity was shared with B Tech (CSE) students. The drive will be held on tentative 1st week of July, 2022.
- All Staff members was attended a webinar on "National Inter-College Cryptic Crossword Contest" was organized by AICTE on 25th March, 2022.
- BRCM College of Engineering & Technology organized an Educational tour to CSIR-CEERI, Pilani, Rajasthan for the Engineering Students of different branches on 7th June 2022. CSIR-CEERI is renowned as the destination for scientific knowledge, research excellence and innovative technology in electronics as well as allied sciences & engineering. During this visit, students visited various R&D Labs of the Institute. In the Plasma lab they were demonstrated various ongoing activities related to plasma technologies at CSIR-CEERI. The students also visited the VT lab where the scientists showed them various Microwave related activities. The students also visited the CSIR-CEERI Museum where they were exhibited major achievements of the Institute and also explained about various technologies developed by CSIR-CEERI. Dr Anuj Kumar Sharma, Principal, BRCM-CET said that these types of educational tours provide opportunity to students for practical and application.

Visit at CSIR-CEERI Pilani

- A Workshop on intellectual Property Rights was conducted at BRCM College Engg. & Technology on 13th April, 2022. 180 participants attended the Workshop. The Key note speaker was Mr. Rishi, Working as an Examiner of Patents & Designs in Ministry of Commerce & Industry, Govt. of India. Mr. Amit Kumar IQAC- Coordinator organized this IPR awareness program.

- All Staff members attended a webinar on "Best Practices in Higher Education" conductedby UGC, on 27th April 2022 in online mode.

Faculty Research Paper Publications

1. Praveen Kantha, "A study of Wireless Sensor Network security attacks and Intrusion Detection Techniques" in International Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT) Aug 2021, Vol :07, Issue:04, ISSN: 2454-132X.

2. Praveen Kantha, "A Survey of Intrusion Detection Systems for Technology Sensor Networks" in International Journal of Science, Technology and Management (IJSTM) Aug 2021, Vol :08, Issue:02, ISSN (online): 2321-774X.

3. Basant Sah, "Brain Tumour Detection using Clustering Machine Learning Algorithm" in International Journal of Future Generation Communication and Networking (IJFGCN) Aug-2021, Vol:14 Issue -2 ISSN(Online):2233-7857.

4. Praveen Kantha, "MF-CNN: Hybrid Classification Technique for Intrusion Detection System" in Design Engineering (Scopus) Sep 2021, Vol: 2021, Issue:06, ISSN: 0011-9342 Pages: 5984-5995.

5. Anuj Kumar Sharma, "Scaling Down Power Utilization with Optimal Virtual Machine Placement Scheme for Cloud Data Center Resources" in 2021 2nd Global Conference for Advancement in Technology (GCAT) during 1st& 3rd October 2021.

6. Neha, "Novel Approach for Secure Routing Using Aka Process by Optimize S-Box Approach" Journal of Advance Research in Dynamical & Control Systems, Vol. 10, 14-Special Issue, 2021. pp. 1537-1543.

7. Praveen Kantha, "HGSG: An Efficient Hybrid Feature Selection using GSO and GA" in Design Engineering (Scopus) Dec. 2021, Vol :2021, Issue:09, ISSN: 0011-9342 Pages: 8798-8809.

8. Dinesh Kumar, "Hybrid Algorithm Using C4.5 & CART Classification Algorithms of Data Mining" Journal of Emerging Technologies and Innovative Research, Volume 9, Issue 7, 2022 ISSN (online) 2349-5162.

9. Dinesh Kumar, "A Comparative Analysis of different Data Mining Models: Decision Tree, Meta and Naive Bayes" Journal of Emerging Technologies and Innovative Research, Volume 9, Issue 8, 2022 ISSN (online) 2349-5162.

10. Neha "A Survey On Hierarchical Routing in WSN" International Journal of Technical Research" Special Issue, March 2022, pp. 111-114, ISSN: 2278-5787.

11. Dinesh Kumar, "Review on Different Models of Classification in Data Mining" in International Journal of Science, Technology and Management, Volume 9, Issue 1, 2022 ISSN (online) 2321-774X.

12. Amit Ranjan, "Big Data Mining through Hadoop" International Journal of Science, Technology and Management, Volume 9, Issue 1, 2022 ISSN (online) 2321-774X.

13. Ankur Mittal "Enhanced Kangaroo based Routing protocol for WSN with Energy Efficiency" Journal of Emerging Technologies and Innovative Research, Vol. 5, Issue 6, pp. 570-574, ISSN: 2349-5162.

14. Amit Ranjan, "Long Short term memory for Acoustic Model in Speech Recognition" International Journal of Science, Technology and Management, Volume 9, Issue 1, 2022 ISSN (online) 2321-774X.

15. Naveen Kumar "The Discipline of Machine Learning in Artificial Intelligence" International Journal of Science, Technology and Management, Volume 9, Issue 1, 2022 ISSN (online) 2321-774X.

16. Neha, "Crime Prediction using Machine Learning" International Journal of Science, Technology and Management, Volume 9, Issue 1,2022 ISSN (online) 2321-774X.

17. Amit Ranjan "Review of Secure Trust Aware Routing Schemes in WSNs" Journal of Emerging Technologies and Innovative Research, Vol. 6, Issue 4, April 2022, ISSN: 2349-5162.

18. Neha, "Review On Sentiment Analysis Technique (Opinion Mining)" International Journal of Science, Technology and Management, Volume 9, Issue 1,2022 ISSN (Online) 2321-774x.

19. Amit Ranjan "Stock Market Data Prediction Model Using SVM and Navies Byes Techniques: A Review" International Journal of Technical Innovation in Modern Engineering & Science, Vol. 5, Issue 4, April 2022. ISSN: 2455-2585.

20. Rahul "A Review of Routing Attacks in Low Power Lossy Networks" Journal of Emerging Technologies and Innovative Research, Vo. 6, Issue 5, pp. 347-353, ISSN: 2349-5162.

21. Satvender Kumari, "Comparative study for Protection of Data Stored in Cloud Computing Using DACSE, DACESM and S3DCE" International Journal of Advance Research in Science and Engineering, Volume 11, Issue 07, July 2022 ISSN (online) 2319-8354.

22. Alok "Imbalanced Data Classification Using oversampling and folding Technique" Journal of Emerging Technologies and Innovative Research, Vo. 5, Issue 7, pp. 695-699, ISSN: 2349-5162

23. Dinesh Kumar, "Survey on Analysis of Various Classification Algorithms of Data Mining" International Journal of Science, Technology and Management, Volume 9, Issue 1, 2022 ISSN (online) 2321-774X.

24. Ghanshyam Rosewal "Image Binarization of Degraded Devanagari Documents Using Niblack Inpainting Mask" Journal of Emerging Technologies and Innovative Research, Vo. 5, Issue 7, pp. 700-706, ISSN: 2349-5162.

25. Kamal "Optimized Ensembled Model to Predict Drug Toxicity using Machine Learning" International Journal of Innovations in Engineering and Technology, Volume 22 Issue 4 July 2022, ISSN: 2319-1058.

FDP/STTP/Workshops/Training Activities/Webinar Attended by Faculty Members

- Dr. Anuj Kumar Sharma, Principal presented a research paper entitled "Scaling Down Power Utilization with Optimal Virtual Machine Placement Scheme for Cloud Data Center Resources" in 2021 2nd Global Conference for Advancement in Technology (GCAT) during 1st & 3rd October 2021.

- Dr. Anuj Kumar Sharma, Principal delivered a Guest Lecture on "Thinking and Problem based Learning" on 22nd July, 2021at Guru Kashi University through online mode.

- Dr. Basant Sah, Assistant Professor in Computer Science & Engineering Department participated in one week FDP on "Advance Cyber Security and Forensics" organized by E & ICT Academy, IIT Kanpur from 29th June, 2021 to 4th July, 2021.

- Dr. Basant Sah, Assistant Professor in Computer Science & Engineering Department participated in one week FDP on "Cloud Computing" organized by E & ICT Academy, IIT Kanpur from 5th July, 2021 to 10th July, 2021.

- Dr. Basant Sah, Assistant Professor in Computer Science & Engineering Department participated in one day workshop on "Deep Learning with MATLAB" organized by Math Works Training Services on 7th August, 2021.

- Dr. Basant Sah, Assistant Professor in Computer Science & Engineering Department participated in one day workshop on "Statistical Methods in MATLAB" organized by Math Works Training Services on 14th August, 2021.

- All staff members attended a webinar on "Latest Engineering Technologies used in industry" conducted by BRCM College of Engineering and technology on 15th September, 2021.

- Dr. Basant Sah, Associate Professor in Computer Science & Engineering Department participated in one-week FDP on "Cloud Computing" organized by E & ICT Academy, IIT Kanpur from 5th July, 2021 to 10th July, 2021.

- Sunil Maakar, Associate Professor, participated in five-day online STC on "Cyber Forensic and Information Security" Conducted by NIT, Jalandhar on 16 – 20 December 2021.
- Dr. Dinesh Kumar, Professor in Computer Science & Engineering Department Participated an AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Deep Learning and Computer vision" from 03.01.2022 to 07.01.2022 at Manipal University Jaipur.
- Dr. Dinesh Kumar, Professor in Computer Science & Engineering Department Participated a Short-Term Course on "Open Tools for Research" from 24.01.2022 to 28.01.2022 conducted in online mode by NITTTR, Chandigarh.
- Mr. Naveen Kumar, Assistant Professor in Computer Science & Engineering Department Participated an AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Deep Learning and Computer vision" from 03.01.2022 to 07.01.2022 at Manipal University Jaipur.
- Dr. Dinesh Kumar, Professor in Computer Science & Engineering Department Participated in One-week AICTE Training and Learning (ATAL) Academy sponsored Online FDP on "Data Science" organized by Department of Computer Engineering, J.C Bose University of Science and Technology, YMCA, Faridabad from 21st February to 25th February, 2022.
- Mr. Amit Ranjan, Assistant Professor in Computer Science & Engineering Participated in the One Week Online Short Term Course on "Practices of Statistical & Optimization Techniques for Research" organized by Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar held on June 6th -10th, 2022.
- Dr. Dinesh Kumar, Professor in Computer Science & Engineering Department Participated a 5-day FDP-SI UHV Online "AICTE Incorporating Universal Human Values in Education" (An AICTE Initiative) organized by AICTE from 7th February to 11th February, 2022.
- Dr. Dinesh Kumar, Professor in Computer Science & Engineering department Participated in the One Week Online Short-Term Course on "Practices of Statistical & Optimization Techniques for Research (PSOTR-22)" organized by Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar held on June 6th - 10th, 2022.
- Mr. Alok Kumar, Assistant Professor in Computer Science & Engineering Participated in the One Week Online Short-Term Course on "Practices of Statistical & Optimization Techniques for Research" organized by Department of Industrial and Production Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar held on June 6th -10th, 2022.
- Ms. Neha, Assistant Professor in Computer Science & Engineering department successfully completed online FDP "Assessment and Evaluation in Higher Education" from 27th July to 31st July 2020 organized by CREATES, IISER Bhopal.
- Ms. Neha, Assistant Professor in Computer Science & Engineering Department Participated an AICTE Training and Learning (ATAL) Academy Online Elementary FDP on "Deep Learning and Computer vision" from 03.01.2022 to 07.01.2022 at Manipal University Jaipur.
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- Dr. Kamal, Associate Professor in Computer Science & Engineering department Participated in the One Week Online Short Term Course on "Practices of Statistical & Optimization Techniques for Research (PSOTR-22)" organized by Dr B R Ambedkar National Institute of Technology Jalandhar held on June 6th -10th, 2022.

- Mr. Naveen Kumar, Assistant Professor in Computer Science & Engineering department successfully completed online FDP "Assessment and Evaluation in Higher Education" from 27th July to 31st July 2020 organized by CREATES, IISER Bhopal.

- All Staff members was attended a webinar on "Impact of climate change on crop productivity and crop water requirement" was organized by BRCM CET on 15th February, 2022.

- Dr. Dinesh Kumar, Professor in Computer Science & Engineering Department Participated in Two Days National Level Faculty Development Program on "Enhancing Quality &Driving Changes in Higher Education Through NEP-2022" organized by AIMAN College of Arts and Science for Women from 24th March to 25 March 2022.