



# TechByte

A Newsletter from the  
Department of  
Computer Science & Engineering  
(2020-2021)  
Volume -II

**BRCM**  
**COLLEGE OF ENGINEERING & TECHNOLOGY**

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## **Department of Computer Science & Engineering**

### **Vision and Mission of the 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 knowledge able, in spared and valued professional in the different work in surroundings.

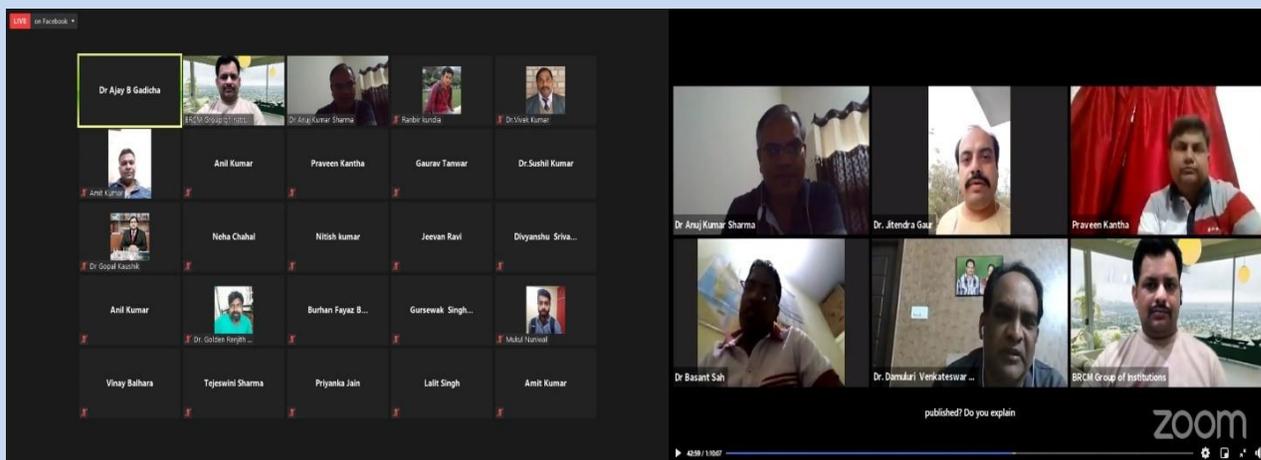
## Country Living

*“If it doesn’t challenge  
you, it doesn’t  
change you.”*

**—Fred DeVito**

## Events, Activities & Guest Lectures

- ❖ BRCM CET, Bahal in association with Keyway Research Foundation, Andhra Pradesh, India Organized a webinar on “Intellectual Property Rights” on 30<sup>th</sup> May, 2021. The session was delivered by Dr. Ajay P. Gadicha, HOD-CSE, PRPP College of Engg. & Mgmt. Amravati-Maharashtra.



### Webinar conducted by Dr. Ajay P. Gadicha

- ❖ All staff members are attended a virtual workshop on “Psychosocial Counseling and COVID Helper skills” Conducted by BRCMCET Bahal in association with MGNCRE, Ministry of Education, Govt. of India on 28<sup>th</sup> May2021.
- ❖ Mr. Praveen Kantha, Assistant Professor in CSE attended One Week (21st - 25th June, 2021) Online Faculty Development Programme On “Introduction to Machine Learning” Under the banner of Department of CSE, Indira Gandhi Delhi Technical University For Women (IGDTUW).
- ❖ All Staff Members attended a webinar on “COVID -19 Vaccines: What are they & How They Work” Conducted by BRCM Education Society, Bahal on 30<sup>th</sup>June2021.
- ❖ A webinar on “The Power of Technology in Your Hands” by Ms. Rolly Sethon 28<sup>th</sup> June2020.
- ❖ A webinar on “Robotics in Agriculture and Food” by Dr. Rekha Raja on 8<sup>th</sup> July2020.
- ❖ A Webinar on “Women in Leadership Role” organized by BRCM Education Society and Guest Speaker was Dr. Kiran Bedi, Hon' ble Lt. Governor of Puducherry on16<sup>th</sup> July2020.



**Guest Lecturer delivered by Dr. Kiran Bedi, Hon'ble Lt. Governor of Puducherry**

- ❖ A webinar on "Opportunities & Challenges for Startups in Current Scenario" in association with Atal Incubation Centre- EMPI New Delhi. Session was delivered by Shri Vinod Midha- CEO AIC-EMPI, New Delhi. Main aim of the webinar was the interaction of both BRCM & AIC-EMPI teams and to share overview of facilities that both have. Also discussed areas where innovation and incubation can be done.
- ❖ BRCM CET signed MoU with Atal Incubation Centre- EMPI New Delhi on 29<sup>th</sup> July 2020 to promote a culture of innovation and entrepreneurship in the students.
- ❖ BRCM Group of Institutions & Edu. Voice signed MoU on 6th August 2020 to introduce EduVoice Chapter in the campus which conducts various activities for faculty and students development. Edu voice is an initiative catering towards bringing education professionals together from all around the globe to form a strong and vocal community that can influence stakeholders of the higher education sectors about various issues that are persistent within the community. It is a platform that welcomes the stake holders to support the community in redesigning the higher education system of India.

**Guest Lecturer delivered by Dr.B.R.Natarajan, Prof. & Dean BITS, Pilani**

- ❖ A webinar on "Soft Skills for Success" Delivered by Dr. B R Natarajan, Prof. & Dean BITS, Pilani, Founder President & VC Sangam University, Prof in Dept. of Chemical Engineering, Banasthali Vidyapeeth.
- ❖ Activity of Pool Campus Placement of Daffodil Software, Gurugram on 17<sup>th</sup> September, 2020. More than five hundred students participated from BRCM Group and nearby colleges. Fifteen students cleared first technical round held on Hackers Earth platform.
- ❖ Webinar conducted by HCL Technologies for Training & Placement to demonstrate current & upcoming programs for students on 3<sup>rd</sup> September, 2020.
- ❖ Activity of International Webinar on "Change Your Mind- Change Your Life" delivered by Wing Commander (Retd.) Namrita Chandi & Joana James (Architect). Both the speakers are Chief Ambassador-The Successful Woman for India & Australia respectively on 5<sup>th</sup> September,2020.

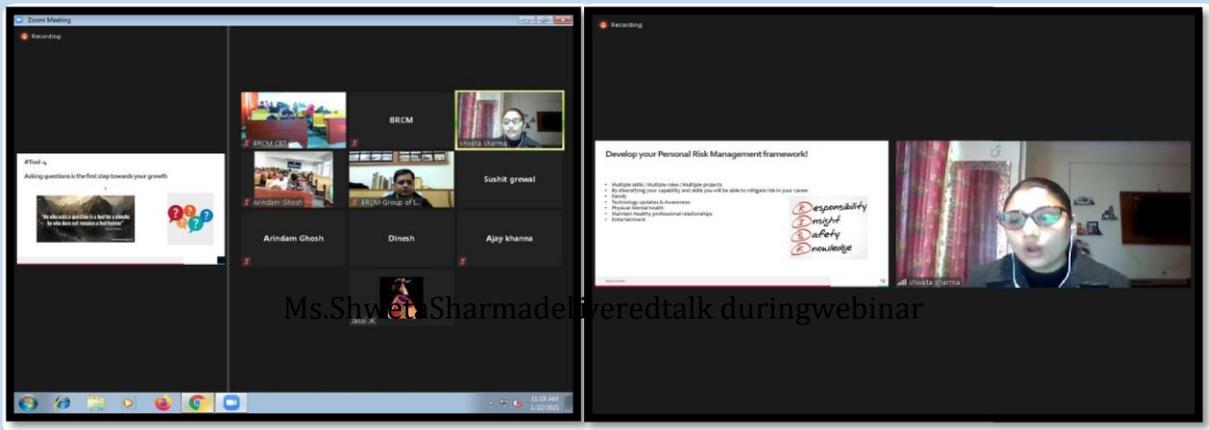


- ❖ Activity of webinar on "Financial Literacy" in association with SEBI. Students from BRCMCET participated in the event.
- ❖ Activity of webinar on "Career Opportunities in Merchant Navy" for students pursuing and completed B. Tech in Mechanical, Electrical & Electronics Engineering. T & P Cell is also in the process of signing MoU with RILN Institute, Madurai to provide opportunities to join Merchant Navy after B.Tech. on 21<sup>st</sup> September,2020.

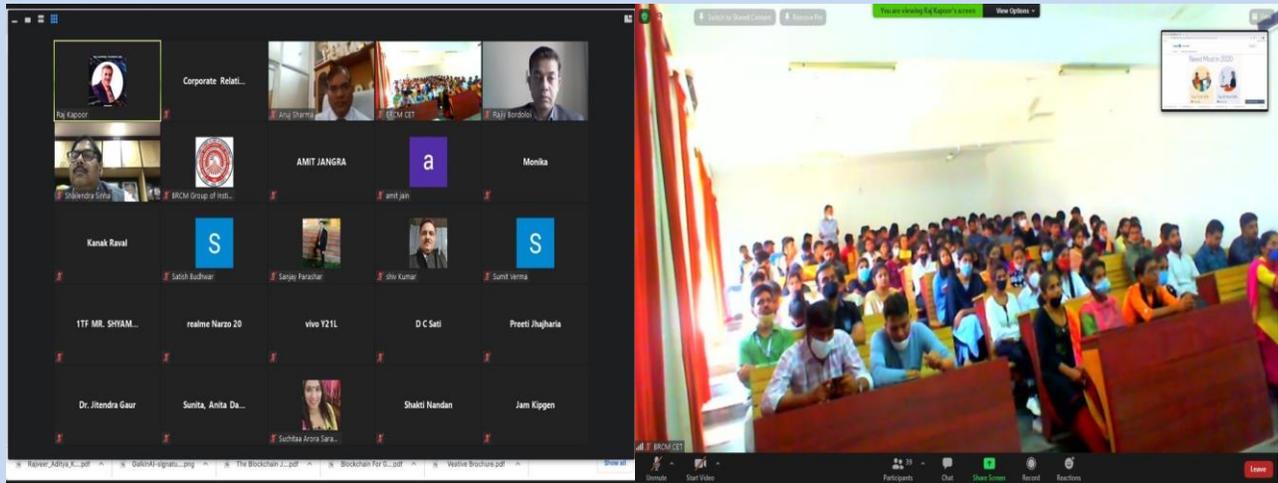


- ❖ Online session was conducted by CRC team on "How to Create Effective Resume" on 7<sup>th</sup> October, 2020. Twenty-Five students from final year attended the session.
- ❖ Campus drive was conducted by Mckinley & Rice Creativity Pvt. Ltd on 9<sup>th</sup> October, 2020. Twenty-Three Students from B. Tech. CSE & EE from 7<sup>th</sup> semester attended the process.
- ❖ Organized webinar on "Microsoft & Google-certification based Online Summer Internship Training program" on 16<sup>th</sup> October, 2020. Students from B.Tech. Computer Science (BRCMCET).
- ❖ Entrepreneur Development Cell in association with AIC-EMPI supported by AIM, Niti Aayog, Govt. of India, organized Healthcare Innovation Grand Challenge REME-DIY on 19<sup>th</sup> October, 2020 for students and researcher.
- ❖ NAGARRO pool campus was organized on 4<sup>th</sup> November, 2020. Total 250 students participated from Seven colleges. Out of which 57 students shortlisted for first *Aptitude* round. Twenty students cleared aptitude round and participated second *Coding* round on 23<sup>rd</sup> November, 2020.
- ❖ RAPs IT, Mohali campus placement was conducted on 5<sup>th</sup> November, 2020 for B Tech CSE/ ME/EE final year students.
- ❖ Placement Cell has MoU with Barclays for their Skill Development Program-powered by Rubicon, Pune. For current session SoftSkill programs tentative scheduled for 10<sup>th</sup> -19<sup>th</sup> December,2020.
- ❖ Sign MOU with NIT -Kurukshetra to access the state-of-the-art infrastructure & learning opportunities for faculty/students at Siemens Centre of Excellence (SCOE) established at NIT-Kurukshetra.
- ❖ Campus Drive was conducted on 9<sup>th</sup> December, 2020 by Sach Tech Solutions, Mohali. Through online test and technical interview Ms. Tisha B.Tech. CSE selected for Training cum Placement program. She will join from first week of January.
- ❖ CRC Team shared profiles of 2020 pass out students to Micromax, Bawal & Indian Mesh, Mohali. Rohit Rathee with 2.4 LPA package in Micromax & Rishabh Aggarwal with 3.5LPA package in Indian Mesh.
- ❖ Campus drive was conducted by Austere Solutions Pvt. Ltd. for B Tech CSE students. Company offered Software Developer& Business Analyst profiles with 8-10 K stipends during training and 2.4-3.6LPA after training.
- ❖ CRC Team organized "Life Skill Training Program" 18 Hrs Barclays Training Program (Powered by Rubicon Pvt. Ltd, Pune) for Engineering students.
- ❖ Campus Drive on 22<sup>nd</sup> December conducted by Soltera Software Pvt. Ltd. for Automation Testing & Java Developer. Mr. Rakesh Dangi B.Tech. CSE is placed with 2.4 LPA package.

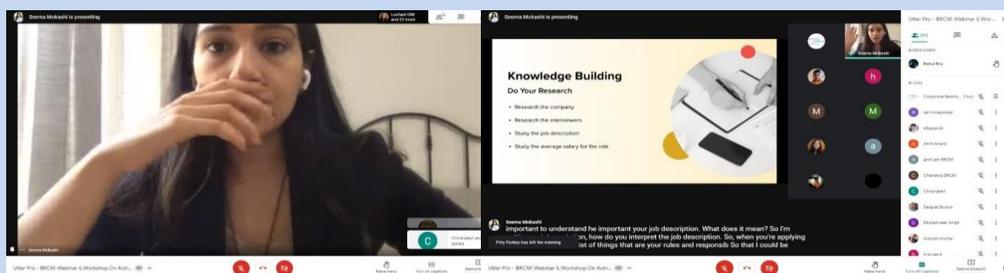
- ❖ Virtual Alumni Interaction 2.0 was organized by BRCMCET-Alumni Association on 31<sup>st</sup> December, 2020. Mr. Vikas Sharma- In charge- Alumni Association was the host for the event. Nine alumni participated in the event along with students.
- ❖ Chegg India campus drive was conducted on 1<sup>st</sup> January, 2021. Students from CET participated. Four students (Tisha, Shristi Jain, Shruti Pritam & Kritika Garg) from CET got final selection.
- ❖ Naggaro pool campus result declare don 6<sup>th</sup> January,2021 and four students got selected.
- ❖ A webinar on "Campus to Corporate by Shweta Sharma" was organized in association with GDC Memorial Degree College on 22<sup>nd</sup> January, 2021. Students from final & pre-final of GDC, CET & Law college participated.



- ❖ Coding kart IT Solutions conducted Training cum Placement drive on 16<sup>th</sup> January, 2021 for B.Tech. CSE 2021 batch and Mr. Harshit Goyal is Selected.
- ❖ Smart Hack 2020 workshop was conducted on 19<sup>th</sup> January,2021 in association with GDC Memorial College powered by EICT Academy-IIT Kanpur. Students of GDC & CET from pre-final & final year Computer Science participated in the event.
- ❖ Signed MoU with Indian Block chain Association, Dr ago chain and TPCR At establish BLOCK CHAIN Centre of Excellence at BRCM College of Engineering & Technology.
- ❖ Setting up a Blockchain Research and Incubation Centre within the Campus and creating a complete Eco-System for blockchain inside the Campus by Harnessing, Nurturing, Grooming and Incubating Block chain talent with our unique Synchronized Learning Platform.



- ❖ HCL Pool Campus for 2021 Batch on 13<sup>th</sup> May 2021. Out of 126 registrations 86 got shortlisted for Online Aptitude Test. 38 candidates appeared for Co Cubes round out of which 25 were shortlisted.
- ❖ Placement Cell is in process to set up AWS Academy with collaboration with Amazon. Through the AWS Academy Program, the BRCM CET will receive the benefit of Cloud, Machine Learning and Analytics education. This will also help us in its development to build a sustainable pool of talent equipped with critical IT skills, in particular with knowledge to design, build and maintain cloud, to meet the challenge sopped by the knowledge-based economy.
- ❖ Placement Assessment Test for 2<sup>nd</sup> & 3<sup>rd</sup> year students in association with Geeks for Geek on 19<sup>th</sup> May 2021. Test duration was 2.30 Hours and the pattern of the test was 40 MCQ Based Questions comprising 10 DSA and 30 Aptitude problems along with 2 Coding Automata Problems. 24 students participated in the test.
- ❖ National Level Skill-Based Assessment for the students graduating in the year 2022 in association with My Anatomy on 13<sup>th</sup> May,2021.
- ❖ CRC Team organized an online session for final year students of Engineering, Law & Degree College. The topic was How to Ace Interview and the speaker was Ms. Seema Mokashi, Head of Academics- Utter. T&P Cell introducing an Intensive Personal Coaching Program for Young Professionals in association with Utter.



- ❖ CRC Team: BRCM GOI organized an online expert session for students of Engineering, Law & Degree College. The topic was Future Work & How to Equip with Future Skills delivered by Mr. Vijay KB and Director of Cyber Security-Qualcomm & An Author, Mentor, and Speaker on Future Skills Winner of Indian Achievers' Award 2020.
- ❖ BRCM College of Engineering signed a MoU with Unifiers. Unifiers are associated with TSSC, CSC and other government bodies. As per MoU both the parties will work together with mutual consent in terms for various students/faculty development and engagement programs. Also Unifiers will help us in placements of Engineering and Degree students. In association with Unifiers we are organizing Spoken English & Soft Skill Program for faculty members of associated schools and colleges.

### **Faculty Research Paper Publications**

1. Sunil Kr. Maakar, "Implementing Wireless Mesh Network Topology between Multiple Wi-Fi Powered Nodes for IoT Systems", International Research Journal of Engineering and Technology (IRJET), ISSN: 2395-0072, Vol. 7, Issue X, Oct 2020, pp. 1245-1249.
2. Sunil Kr. Maakar, "A Study on Integrating Wireless Mesh Networking in IoT Systems", International Research Journal of Engineering and Technology (IRJET), ISSN: 2395-0072, Vol. 7, Issue X, Oct 2020, pp. 1242-1244.
3. Praveen Kantha, "Design of a Feasible Cloud Server based Doorway Security System" International Research Journal of Engineering and Technology (IJRJET) Volume 07, Issue 10, Oct, 2020, e-ISSN: 2395-0056, p-ISSN: 2395-0072.
4. Praveen Kantha, "Realization of an IoT System to Ensure Doorway Security by Integrating ESP32-CAM with Cloud Server" International Research Journal of Engineering and Technology (IJRJET) Volume 07, Issue 10, Oct, 2020, e-ISSN: 2395-0056, p-ISSN: 2395-0072.
5. Praveen Kantha, "Realization of an IoT System for Real Time Remote Surveillance of Multi-Sensor Network and Control of Multiple Appliances using Blynk Cloud Server" International Research Journal of Engineering and Technology (IJRJET) Volume 07, Issue 10, Oct, 2020, e-ISSN: 2395-0056, p-ISSN: 2395-0072.
6. Praveen Kantha, "Blynk Cloud Server based Monitoring and Control using NodeMCU" International Research Journal of Engineering and Technology (IJRJET) Volume 07, Issue 10, Oct, 2020, e-ISSN: 2395-0056, p-ISSN: 2395-0072.
7. Ankur Mittal "A Secure Cloud Framework for Resource Allocation and Optimization" International Journal of Advance Research in Science and Engineering, Vol. 6, Special Issue 1, Nov. 2020, ISSN: 2319-8354.

8. Sunil Kumar, "Applications of Flying Ad-Hoc Network During COVID-19 Pandemic" in International Conference on Applied Scientific Computational Intelligence using Data Science on 22-23, December, 2020 organized by Manipal University, Jaipur.
9. Rahul "Evaluation of User Selection Schemes with Low Computational Complexity and Best Effort Interference" IOSR Journal of Engineering, Vol. 8, Issue 6, pp. 58-65, ISSN: 2278-8719.
10. Alok Kumar "A Review on different Image binarization Techniques for Degraded Documents" Journal of Emerging Technologies and Innovative Research, Vol. 5, Issue 5, May 2021, ISSN:2349-5162.
11. Neha "Secure and Efficient Information Propagation Using Pushback Algorithm Based Routing for Wireless Networks" Journal of Emerging Technologies and Innovative Research, Vol. 5, Issue 5, May 2021, ISSN:2349-5162.
12. Naveen Kumar "A Review on Privacy Preservation Techniques for Data Mining" Journal of Emerging Technologies and Innovative Research, Vol. 5, Issue 5, May 2021, ISSN:2349-5162.
13. Ghanshyam Rosewal "A Review on Different Routing Protocol for Wireless Sensor Network" Journal of Emerging Technologies and Innovative Research, Vol. 5, Issue 5, May 2021, ISSN:2349-5162.
14. Dr. Anuj Kumar Sharma, Principal published a Book Chapter title "Feature Optimized Machine Learning Framework for Unbalanced Bioassays" in Book "Cognitive Behavior & Human Computer interaction based on Machine learning algorithms" having ISBN:9781119791607.

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

1. Mr. Ankur Mittal, Assistant Professor in Computer Science & Engineering Department participated in online Five Day FDP on Arduino from 12.06.2020 to 17.06.2020 organized by MIT, Puducherry.
2. Mr. Sunil Kumar, Assistant Professor, in Computer Science & Engineering Department participated & completed successfully AICTE online FDP on "Cyber Security" 28.12.2020 to 01.01.2021 at Thangal Kunju Musaliar College of Engineering.
3. Mr. Praveen Kantha, Assistant Professor in Computer Science & Engineering Department Participate in two Week FDP on "Machine Learning" organized by E & ICT Academy, IIT Kanpur Sponsored by MHRD from 11th January to 23rd January 2021.
4. Mr. Praveen Kantha, Assistant Professor in Computer Science & Engineering Department Participate in Six Day Online FDP on "Content Preparation an Delivery for Online Mode of Teaching" organized by Teaching Learning Centre, National Institute of Technology, Warangal during 5th - 10th October 2020.
5. Mr. Basant Sah, Assistant Professor in Computer Science & Engineering Department Participate in Two Week FDP on "Machine Learning" organized by E & ICT Academy, IIT Kanpur Sponsored by MHRD from 11th January to 23rd January 2021.
6. Mr. Basant Sah, Assistant Professor in Computer Science & Engineering Department Participate in Two Week FDP on "Data Science & Machine Learning" organized by E & ICT Academy, IIT Kanpur Sponsored by MHRD from 15th February to 27th February 2021.

7. Mr. Praveen Kantha, Assistant Professor in CSE attended One Week (21st - 25th June, 2021) Online Faculty Development Programme On "Introduction to Machine Learning" Under the banner of Department of CSE, Indira Gandhi Delhi Technical University for Women (IGDTUW).
8. Mr. Alok, Assistant Professor in Computer Science & Engineering Department Participate in Six Day Online FDP on "Content Preparation an Delivery for Online Mode of Teaching" organized by Teaching Learning Centre, National Institute of Technology, Warangal during 5th – 10th October 2020.
9. Mr. Ankur Mittal, Assistant Professor in Computer Science & Engineering Department successfully completed Online interdisciplinary Refresher Course on Changing perspectives in Pedagogy organized during 8th and 22nd October, 2020.
10. Dr. Anuj Kr. Sharma, Professor in Computer Science & Engineering Department Participate in Six Day Online FDP on "Content Preparation an Delivery for Online Mode of Teaching" organized by Teaching Learning Centre, National Institute of Technology, Warangal during 5th – 10th October 2020.
11. Dr. Dinesh Kumar, Professor, in Computer Science & Engineering Department participated & completed successfully AICTE online FDP on "Cyber Security" 28.12.2020 to 01.01.2021 at Thangal Kunju Musaliar College of Engineering.
12. Mr. Ghanshyam Rosewal, Assistant Professor in Computer Science & Engineering Department successfully completed Online interdisciplinary Refresher Course on Changing perspectives in Pedagogy organized during 8th and 22nd October, 2020.
13. Dr. Kamal, Associate Professor in Computer Science & Engineering Department Participate in Six Day Online FDP on "Content Preparation an Delivery for Online Mode of Teaching" organized by Teaching Learning Centre, National Institute of Technology, Warangal during 5th – 10th October 2020.
14. Dr. Dinesh Kumar, Professor, in Computer Science & Engineering Department successfully completed Inter Disciplinary One week Faculty Development Programme on "Online Tools for Teaching, Learning and Research" from June 23-29 organized by Guru Kashi University, Bathinda, Punjab.