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insightIT
Bi-Annual Magazine

Department of Information Technology

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Message from Director
Prof. Shailesh Tiwari

I am delighted to know that Department of Information Technology is bringing out Volume 6 Issue 2 of "InsightIT" Magazine. In addition to the several achievements of the college this is yet another mile stone in their curricular and co-curricular activities. The InsightIT is a forum which could aptly be used for recording events, fond memories and achievements of the department of IT. I am sure that this magazine will be informative and resourceful. I hope that the Magazine will bring out the creative talents of the students and the faculty of the college.

Best wishes to entire team and head of the department for all the achievements mentioned in the issue of Insight IT.

It is a matter of pride that the Department of Information Technology is releasing the Volume 6 Issue 2 of Insight IT magazine for the session January-June, 2021. Our goal is to change the world through education. It may sound idealistic but this is precisely our long-term goal. It also inspires our teaching and research.

I appreciate the effort of all the members of Team-IT and students for their significant contribution to the department. The current issue covering details of departmental events, technical, non-technical and achievements of Students/Alumni/Faculty members. It also brings our focus that we can achieve even in the pandemic COVID-19. I thank Director, Dean, Deputy Director and management of ABESEC for their cooperation and guidance.
Best Wishes!

Message from HOD-IT
Dr. Amit Sinha

Message from Editor in Chief
Mr. Manish Kumar Sharma

Dear Readers,

Greetings! being the editor, I feel privileged to work on the current issue of our departmental magazine Insight IT. It gives me great pleasure to bring this issue. The current issue of InsightIT magazine covers the achievements, activities, projects, publications and technical events from January to June 2021. On behalf of Team-IT, I look forward to a breezy reception of your valuable feedback and contribution. It will help us to improve our upcoming issue.

Vision

The Department of Information Technology endeavors to be recognized globally for outstanding education and research leading to well qualified engineers, who are innovative, entrepreneurial and successful in advanced fields of IT to cater the ever changing industrial demands and social needs.

Mission

To create a healthy environment for the development of innovative professional and researchers to fulfill its commitment to research and education of the highest quality with industry requirement and social acceptance at large.

Program Educational Objectives (PEOs)

The Detailed Program Educational Objectives (PEOs) are as follows:-

PEO-1 To impart exhaustive knowledge to the students in all the sub-domains of Information Technology and the fast evolving IT tools to:
a) Take up key assignments in IT and associated Industries
b) Undertake and excel in higher studies and research and development in IT Related fields and management.

PEO-2 To impart solid foundation in computational intelligence, science and interdisciplinary courses.

PEO-3 To design and develop novel products and innovative solutions for real life problems in Information Technology field and related domains.

PEO-4 To inculcate a conviction in the students to believe in self, impart professional and ethical attitude, nurture to be an effective team member, infuse leadership qualities, build proficiency in soft skills and the abilities to relate engineering with the social issues.

PEO-5 To provide a conducive and disciplined academic environment, quality of teaching with innovative and modern methods of pedagogy establishing the relevance of technical education as per the needs of the industry and society at large.

Program Outcomes (POs)

The detailed Program Outcomes (POs) are as follows-

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions

5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environment.

12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

PSO-1: An ability to specify, analyze & design a usable computing system that efficiently utilizes system software and hardware to cover current user requirement in a socially and economically acceptable form.

PSO-2: An ability to state, design and implement a secure and reliable information communication system by using concepts of computer networks, network security, information theory and parallel algorithm.

PSO-3: An ability to state, design and implement knowledge based discovery and machine based learning in computer system by using the various concepts of soft computing, neural networks, image processing, digital system design and artificial intelligence.

PSO-4: An ability to analyze and design an efficient information management system which uses the concepts & tools of databases, data mining and information coding and deliver technological solutions for the end users.

Faculty Corner
FDP /Workshop/Training Attended

➢ **Dr. Amit Sinha:** Attended five days online FDP on "Machine Learning", organized by ABES Engineering College and funded by Dr. APJ Abdul Kalam Technical University, Lucknow from 11th – 15th January, 2021.

➢ **Dr. Amit Sinha:** Attended Elsevier Author Workshop: Essentials of Research Article Writing at Nalanda E-Consortium, AKTU Lucknow, on 28th May, 2021.

➢ **Dr. Amit Sinha:** Attended five days online FDP Program on "Fundamentals of AI & ML" organized by ICT Academy from 10th -14th May, 2021.

➢ **Dr. Deepak Kumar Singh:** Attended five days online FDP on "Machine -Learning", organized by ABES Engineering College and funded by Dr. APJ Abdul Kalam Technical University, Lucknow from 11th – 15th January, 2021.

➢ **Dr. Deepak Kumar Singh:** Attended five days online ATAL FDP on "Internet of Things (IoT)" organized by Government College of Engineering from 15th -19th march, 2021.

➢ **Dr. Deepak Kumar Singh:** Attended five days online ATAL FDP on "Cyber Security for Internet of Things" organized by Indian Institute of Information Technology, Design and Manufacturing, Jabalpur from 21th -25th June, 2021.

➢ **Dr. Deepak Kumar Singh:** Attended five days online TEQIP Sponsored FDP on "Recent trends in Computer Science and Engineering" organized by Bundelkhand Institute of Engineering and Technology, Jhansi, U.P from 22nd February -26th February, 2021.

➢ **Dr. Deepak Kumar Singh:** Attended Elsevier Author Workshop: Essentials of Research Article Writing at Nalanda E-Consortium, AKTU Lucknow, on 28th May, 2021.

➢ **Dr. Deepak Kumar Singh:** Attended Webinar on "Challenges and Opportunities in Polar Research" organized by Jamia Millia Islamia (Central University), New Delhi.

➢ **Dr. Harikesh Singh:** Attended five days AICTE sponsored online QIP-short term course on "IOT Enabled 5G Networks: Infrastructure and Security" organized by IIT BHU, Varanasi from 25th-30th January, 2021.

- **Dr. Kanika Gupta:** Attended five days online FDP on "Inculcating Universal Human Values in Technical Education" organized by AICTE from 10th-14th May, 2021.
- **Dr. Kanika Gupta:** Attended five days online ATAL FDP on "Recent Trends in Software Testing" organized by Vishwakarma Government Engineering College, Chandkheda. from 12th - 16th June, 2021.
- **Dr. Puneet Kumar Aggarwal:** Attended One Week online STTP on "Wireless Sensors Network" organized by GZSCCET MRSPTU, Bhatinda approved by AICTE from 18th -23rd January, 2021.
- **Dr. Puneet Kumar Aggarwal:** Attended online FDP on "Computer System Security" organized by E & ICT Academy, IIT Kanpur in collaboration with MeitY issued on 1st April, 2021.
- **Dr. Puneet Kumar Aggarwal:** Attended five days online FDP on "Machine Learning" organized by ABES Engineering College, Ghaziabad and funded by Dr. APJ Abdul Kalam Technical University from 11th – 15th Jan, 2021.
- **Dr. Yash Veer Singh:** Attended five days AICTE online FDP on "Inculcating Universal Human Values in Technical Education" organized by AICTE from 24th-28th May, 2021.
- **Dr. Yash Veer Singh:** Attended five days ISEA-II Sponsored online FDP on "Cyber Security and Forensic" organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar (Punjab) from 22nd-26th, 2021.
- **Dr. Yash Veer Singh:** Attended five days online FDP on "Machine Learning" organized by ABES Engineering College, Ghaziabad and funded by Dr. APJ Abdul Kalam Technical University from 11th – 15th Jan, 2021.
- **Mr. Ashwin Perti:** Attended five days online ATAL FDP on "IoT-enabled 5G Networks: Infrastructure and Security" organized by IIT, BHU from 25th -30th January, 2021.
- **Mr. Ashwin Perti:** Attended five days online FDP on "Android Development with Kotlin (Online Live FDP)" conducted by ICT Academy from 1st-6th March, 2021.
- **Mr. Ashwin Perti:** Attended five days online ATAL FDP on "Recent Advancement in AI & Robotics" organized by Dr. D Y Patil School of Engineering & Technology from 25th-29th April, 2021.
- **Mr. Ashwin Perti:** Attended One Week online STTP on "Emerging trends in Data Analysis in SPSS" organized by REST Society for Research International (RSRI) Krishnagiri, Tamil Nadu, India from 12th-17th April, 2021.
- **Mr. Ashwin Perti:** Attended five days online FDP on "AICTE Incorporating Universal Human Values in Education", by AICTE from 10th-14th May, 2021.
- **Mr. Ashwin Perti:** Attended in 12 Hours online FDP on "Introduction to Angular JS" conducted by ICT Academy from 24th-28th May, 2021.
- **Mr. Ashwin Perti:** Attended five days online ATAL FDP on "Cyber Security: a Step towards awareness to Cyber Crime" organized by Engineering College Ajmer from 14th-18th June, 2021.
- **Mr. Ashwin Perti:** Attended five days online ATAL FDP on "Data Science in IoT" organized by Kalinga Institute of Industrial Technology from 21st-25th June, 2021.
- **Ms. Asmita Dixit:** attended five days online FDP on "Machine Learning" organized by ABES Engineering College, Ghaziabad and funded by Dr. APJ Abdul Kalam Technical University from 11th – 15th Jan, 2021.
- **Ms. Asmita Dixit:** Attended five days online ATAL FDP on "Cyber Security" organized by Sanjivini College of Engineering, Kopargoan from 8th-12th, February, 2021.
- **Ms. Asmita Dixit:** Attended five days online ATAL FDP on "Cyber Security Vulnerabilities & Safeguards" organised by National Institute of Technical Teachers Training & Research Chandigarh from 17th-21st May, 2021.
- **Ms. Asmita Dixit:** Attended five days online ATAL FDP on "Recent Trends in Software Testing" organized by Vishwakarma Government Engineering College, Chandkheda from 12th-16th June, 2021.
- **Ms. Deepali Dev:** attended 5 days online FDP on "Machine Learning" organized by ABES Engineering College, Ghaziabad and funded by Dr. APJ Abdul Kalam Technical University from 11th – 15th Jan, 2021.
- **Mr. Jitendra Kumar Chauhan:** Attended Elsevier Author Workshop: Essentials of Research Article Writing at Nalanda E-Consortium, AKTU Lucknow, on 28th May, 2021.
- **Mr. Jitendra Kumar Chauhan:** Attended five days online FDP on "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 17th-21st May, 2021.
- **Mr. Jitendra Kumar Chauhan:** Attended five days 5-day online FDP on "Introduction to

Python Programming" conducted by ICT Academy on 24th -28th May, 2021.

➢ **Mr. Manish Kumar Sharma:** Attended five days online FDP on "Machine -Learning", organized by ABES Engineering College and funded by Dr. APJ Abdul Kalam Technical University, Lucknow from 11th – 15th January, 2021.

➢ **Mr. Manish Kumar Sharma:** Participated two Weeks online Certificate Programme on "Machine Learning for Computer Vision" organized by IIT Guwahati, IIT Kanpur, MNIT Jaipur, NIT Patna, PDPM IIITDM Jabalpur and conducted by the department of Computer Science & Engineering at MNIT Jaipur from 1st to 12th February 2021.

➢ **Mr. Manish Kumar Sharma:** Attended five days online FDP Program on "Fundamentals of AI & ML" organized by ICT Academy from 10th -14th May, 2021.

➢ **Mr. Manish Kumar Sharma:** Attended Elsevier Author Workshop: Essentials of Research Article Writing at Nalanda E-Consortium, AKTU Lucknow, on 28th May, 2021.

➢ **Mr. Manish Srivastava:** Attended five days online ATAL FDP on "Quantum Artificial Intelligence" conducted by Indian Institute of Information Technology Pune from 24th -28th May, 2021.

➢ **Mr. Manish Srivastava:** Attended five days online ATAL FDP on "Recent Trends in Software Testing" organized by Vishwakarma Government Engineering College, Chandkheda from 12th-16th June 2021.

➢ **Ms. Nandita Goyal:** attended five days online FDP on "Machine Learning" organized by ABES Engineering College, Ghaziabad and funded by Dr. APJ Abdul Kalam Technical University from 11th – 15th Jan, 2021.

➢ **Ms. Nandita Goyal:** Attended five days online ATAL FDP on "Cyber Security" organized by Anand Institute of Higher Technology from 7th-11th June 2021.

➢ **Ms. Nandita Goyal:** Attended five days ATAL Online FDP on "Machine Learning and its Application" organized by Dr. Harisingh Gour University from 21st-25th June 2021.

➢ **Ms. Nandita Goyal:** Attended five days online ATAL FDP on "Blended Learning and Flipped Classroom" organized by National Institute of Technical Teachers Training & Research, Chandigarh from 8th-12th February, 2021.

➢ **Mr. Prashant Tomer:** Attended five days Train-the-Trainer program (FDP) on "Android Development using Kotlin" organized by Google Developer from 1st- 6th March 2021.

➢ **Mr. Prashant Tomer:** Attended five days online ATAL FDP on "Industrial Internet of Things (IoT) organized by Swami Keshvanand Institute of Technology, Management & Gramothan. from 7th –11th June-21.

➢ **Mr. Prashant Tomer:** attended five days online FDP on "Machine Learning" organized by ABES Engineering College, Ghaziabad and funded by Dr. APJ Abdul Kalam Technical University from 11th – 15th Jan, 2021.

➢ **Mr. Ritin Behl:** Attended five days online ATAL FDP on "Cyber Security" organized by IIIT, Vadodara from 14th-18th, June,2021.

➢ **Mr. Ritin Behl:** attended five days online FDP on "Machine Learning" organized by ABES Engineering College, Ghaziabad and funded by Dr. APJ Abdul Kalam Technical University from 11th – 15th Jan, 2021.

➢ **Mr. Sachin Goel:** attended five days online FDP on "Machine Learning" organized by ABES Engineering College, Ghaziabad and funded by Dr. APJ Abdul Kalam Technical University from 11th – 15th Jan, 2021.

➢ **Mr. Sachin Goel:** Attended five days online FDP on ""Artificial Intelligence in Contemporary Biomedical & Healthcare application: Fundaments & Hands-on MATLAB" organized by Gautam Buddha University from 21st -25th June, 2021.

➢ **Ms. Shelley Gupta:** attended five days online FDP on "Machine Learning" organized by ABES Engineering College, Ghaziabad and funded by Dr. APJ Abdul Kalam Technical University from 11th – 15th Jan, 2021.

➢ **Ms. Shelley Gupta:** Attended five days online ATAL FDP on "Artificial Intelligence" organized by Manipal University Jaipur from 8th-12th February, 2021.

➢ **Ms. Shelley Gupta:** Attended five days online ATAL FDP on "Artificial Intelligence" organized by Dr. Ambedkar Institute of Technology from 4th-8th January, 2021.

➢ **Ms. Shweta Kaushik:** Attended and successfully completed 30 hours online FDP Course on "Java Programming" organized by Oracle Academy and certified on 7th January 2021.

➢ **Ms. Shweta Kaushik:** attended five days online FDP on "Machine Learning" organized by ABES Engineering College, Ghaziabad and funded by Dr. APJ Abdul Kalam Technical University from 11th – 15th Jan, 2021.

Journals

- **Dr. Harikesh Singh** Published a paper titled "IoT Based Forest Fire Detection System in Cloud Paradigm" in IOP Conf. Series: Materials Science and Engineering, Vol.1022, Jan 2021. (Scopus Indexed).

- **Dr. Yash Veer Singh:** Published a paper titled "Synthesis and analysis of prediction errors and error fusion based prior for prediction algorithms" published in Multimedia Tools and Applications on 14th June 2021, (SCI)

- **Dr. Kanika Gupta:** Published a paper titled "An Efficient Approach for Detection and Verification of Infected Cases of Covid-19 Virus Through Block Chain: A Survey" in international journal of Sensors, Wireless Communications and Control (Bentham Science) Volume 10, 2020 ISSN: 2210-3287 (Online) - ISSN: 2210-3279 (Print). (Scopus Indexed).

- **Mr. Aatif Jamshed:** Published a paper titled "Implementation of a Cost Efficient Passive Keyless Entry Device for the Communication Protocol" in Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 12, pp. 1891-190, Issue 3, June 2021. (Scopus Indexed)

- **Mr. Aatif Jamshed:** Published a paper titled "Blended Learning and Flipped Classroom: New Teaching & Learning paradigms Towards Imparting Quality Education" in Journal of Oriental Research Madras XCII-V: 2021 with ISSN: 0022-33 01 (UGC-CARE List Group I).

- **Ms. Asmita Dixit:** Published a paper titled "Implementation of a Cost Efficient Passive Keyless Entry Device for the Communication Protocol" in Turkish Online Journal of Qualitative Inquiry (TOJQI), Volume 12 (3), July 2021 (Scopus Indexed).

- **Ms. Nandita Goyal:** Published a paper titled "Malicious host detection and classification in cloud forensics with DNN and SFLO approaches" published in International Journal of System Assurance Engineering and Management, pp.1-13, 2021 (SCI).

Conferences

- **Dr. Puneet Kumar Aggarwal:** Published a paper entitled "Gaps Identification for User Experience for Model Driven Engineering", in Proceedings of the International Conference on Cloud Computing, Data Science & Engineering (Confluence), 2021. added in IEEE Xplore: 15th March 2021. (Scopus Indexed)

- **Dr. Deepak Kumar Singh:** A paper has been accepted titled "Current Approaches for Brain Tumor Segmentation" in 5th International Conference on Recent Advancements in Computer Communication and Computational Sciences (RACCCS-August,2021) Published in Springer Book Series on "Lecture Notes in Networks and Systems" (Scopus Indexed)

- **Dr. Deepak Kumar Singh:** A paper has been accepted titled "Role of Transfer Learning in Glioma Grading" in 5th International Conference on Recent Advancements in Computer Communication and Computational Sciences(RACCCS-August,2021) Published in Springer Book Series on "Lecture Notes in Networks and Systems". (Scopus Indexed)

- **Mr. Manish Kumar Sharma:** Published a paper titled "Crop Selection Using Data Analytics" in 2nd International Conference on Advances in Computing, Communication Control and Networking (ICACCCN) (pp. 66-70). IEEE, 2020, added in IEEE Xplore: 01 March 2021. (Scopus Indexed)

- **Mr. Manish Kumar Sharma:** Published a paper titled, "Survey Paper on Routing Protocol in VANET", in 2nd International Conference on Advances in Computing, Communication Control and Networking (ICACCCN) (pp. 426-429). IEEE, 2020, added in IEEE Xplore: 01st March 2021. (Scopus Indexed)

Book Chapter

- **Dr. Kanika Gupta:** Published a book chapter entitled "MOLE: Multiparty Open Ledger Experiment, Concept and Simulation Using BlockChain Technology". In Applications of Artificial Intelligence and Machine Learning, vol 778, pp. 573-582, Springer, Singapore. (Scopus Indexed).

- **Dr. Kanika Gupta:** Published a book chapter entitled "BASIC: Blockchain application and Smart Intelligent Contract", Recent Trends in Communication and Electronics, pp.194-198, Taylor and Francis Group, 2021. (Scopus Indexed).

- **Dr. Puneet Kumar Aggarwal:** Published a book chapter entitled "Convergence of IoT and CPS in Robotics", Emergence of Cyber Physical Systems and IoT in Smart Automation and Robotics, pp.15-30, Springer, 2021. (Scopus Indexed).

- **Dr. Puneet Kumar Aggarwal:** Published a book chapter entitled "Machine Learning, Data Mining and Big Data Analytics for 5G-Enabled IoT", Blockchain for 5G enabled IoT: the new wave for Industrial Automation, pp. 351-375, Springer, 2021. (Scopus Indexed).

- **Ms. Shweta Kaushik:** Published a book chapter titled "Big Data Issues and Challenges" in Big Data Applications for Improving Library Services, pp. 1-21. IGI Global, 2021 (Scopus Indexed).

- **Ms. Shweta Kaushik:** Published a book chapter titled "Fog Assisted Data Security & Privacy in Healthcare" in Fog Computing for Healthcare 4.0 Environments, pp. 315-336. Springer, 2021 (Scopus Indexed).

- **Ms. Shweta Kaushik:** Published a book chapter titled "Blockchain and 5G-Enabled Internet of Things: Background and Preliminaries" in Blockchain for 5G-Enabled IoT, Springer 2021 (Scopus Indexed).

Ph.D Awarded / Registered Details

➢ **Dr. Yash Veer Singh:** Awarded Ph.D. on the thesis titled "Design and Analysis of Prioritization Techniques for software requirements" from University of Delhi, Delhi, India, (Session: 2020-2021).

➢ **Dr. Puneet Kumar Aggarwal:** Awarded Ph.D. on the thesis titled "Design of Quality Model for Mobile Applications" from Amity University, Uttar Pradesh, India in Ph.D. Discipline Information Technology, (Session: 2020-2021).

➢ **Mr. Manish Kumar Sharma:** Enrolled for Ph.D. program at DR. B.R Ambedkar National Institute of Technology, Jalandhar, India in Computer Science and Engineering, (Session: 2020-2021).

➢ **Mr. Ritin Behl:** Enrolled for Ph.D. program at SRM Institute of Science and Technology, NCR Campus, India in Computer Science and Engineering, (Session: 2020-2021).

➢ **Mr. Prashant Tomar:** Enrolled for Ph.D. program at G.D Goenka University, Gurugram, India in Computer Science and Engineering, (Session: 2020-2021).

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NPTEL / Coursera Certifications

➢ **Ms. Deepali Dev:** Completed NPTEL ELITE "Data science for Engineers", from January - March, 2021.

➢ **Ms. Deepali Dev:** Completed Coursera certification in "Text Mining & Data Analytics" on 4th May, 2021.

Department Achievements

➢ The B. Tech. (IT) Course received Three Year NBA extension till 30th June, 2024.

➢ The CRIP project "Smart Dustbin", funded by Dr. APJ AKTU, Lucknow was successfully handed over with submission of utilization certifications.

➢ Department organized five days online FDP on "Machine -Learning", Sponsored & funded by Dr. APJ Abdul Kalam Technical University, Lucknow from 11th – 15th January, 2021.

Faculty Achievements

➢ **Dr. Amit Sinha:** delivered an Invited lecture on "Impact of Covid-19 on Indian Agricultural system and role of IT" in the Online 8th National Conference titled "Ecosystem based Adoption in Changing Climate for Food and Water Security", organized by River Water User Association (India) - IRDRA, 7th-9th May, 2021.

- **Dr. Amit Sinha:** has undergone Innovation Ambassador training (Advanced Level) conducted by MoE's Innovation Cell & AICTE started from 30th June to 30th July 2021 in online mode.

- **Dr. Deepak Kumar Singh:** Contributed as Session Chair in Springer sponsored 3rd International Conference on Data & Information Sciences (ICDIS-2021) held at Raja Balwant Singh Engineering Technical Campus Bichpuri Agra, India, May 14-15, 2021.

- **Mr. Aatif Jamshed:** has undergone Innovation Ambassador training (Advanced Level) conducted by MoE's Innovation Cell & AICTE started from 30th June to 30th July 2021 in online mode.

- **Ms. Asmita Dixit:** Qualified 2 modules in AICTE sponsored National Initiative for Technical Teachers Training (NITTT-2021) Exam, Roll No- NTANITTT21413.

- **Ms. Shelley Gupta:** Qualified 2 modules in AICTE sponsored National Initiative for Technical Teachers Training (NITTT-2021) Exam, Roll No- NTANITTT21709.

Partnership and MoU's

The Department of Information Technology, ABESEC Ghaziabad has signed MoU with:
1. ICT Academy, Government of India
2. MONTEAGE IT Solutions Pvt. Ltd (Delhi-NCR)
3. IASC Sector Skill Council (Govt. Of India)
4. Palo Alto

ICT Academy, Government of India

MONTEAGE IT Solutions Pvt. Ltd.

 IASC Sector Skill Council (Govt. Of India)	 a h Ü { ▐■▌┤/ ś'n▒■T┚ I⅗Ŏśś■ ! . 9 { 9 ■┤┌śś'n▌┤ **College & IASC Sector Skill Council**

Patents filed and Published

Nine patents filed & published by the faculty members and students of the Department of Information Technology. The details of the published patents in ODD Semester 2020-2021 are:

- **Mr. Aatif Jamshed, Dr. Amit Sinha, Ms. Asmita Dixit, Mr. Ashwin Perti, Mr. Priyanshu Srivastava** published a patent titled "Systems and Method for Biometric Authentication", with Applicant Name ABES Engineering College, Application No. 202111000731.

- **Dr. Amit Sinha, Mr. Ashwin Perti, Ms. Pragati Gupta, Mr. Yatharth Chouhan** published a patent titled "System and Methods to Detect Drowsiness Level of a User", with Applicant Name ABES Engineering College, Application No. 202111000735.

- **Dr. Harikesh Singh, Dr. Amit Sinha, Mr. Pankaj Singh, Ms. Mansi Chauhan** published a patent titled "System and Methods for Internet of Things (IoT) Based Fire Detection and Alert Thereof", with Applicant Name ABES Engineering College, Application No. 202111000806.

- **Dr. Amit Sinha, Dr. Deepak Kumar Singh, Mr. Ashwin Perti, Mr. Aatif Jamshed, Mr. Pranjal, Mr. Pankaj Singh, Mr. Mridul Singh, Mr. Umang Garg** published a patent titled "System and Method to Classify Customer and Employee in Super Market", with Applicant Name ABES Engineering College, Application No. 202111002329.

- **Ms. Deepali Dev, Dr. Amit Sinha, Dr. Deepak Kumar Singh, Mr. Ashwin Perti, Mr. Ritin Behl, Mr. Shivank Varshney, Ms. Priyanka** published a patent titled "Systems and Method for Detecting Suicide Intention of User", with Applicant Name ABES Engineering College, Application No. 202111002065.

- **Mr. Prashant Tomer, Mr. Manish Srivastava, Dr. Amit Sinha, Ms. Nandita Goyal, Dr. Prabhat Kumar Srivastava** published a patent titled "System and Method for simulation of an Indoor Plant Growth", with Applicant Name ABES Engineering College, Application No. 202111011901.

- **Mr. Manish Kumar Sharma** published a patent titled "Image Processing System and Method for Object Detection using Machine Learning", with affiliation ABES Engineering College, Ghaziabad, Application No. 202111011159.

- **Dr. Deepak Kumar Singh:** An Australian Patent has been granted titled "Artificial Intelligence based Computational Model for Spatial-Temporal and Emotional Reasoning of Humanoid Robots", with affiliation of ABES Engineering College, Ghaziabad, Application No. 2021102490

- **Dr. Deepak Kumar Singh:** An Australian Patent has been granted titled "Detection and Elimination of Logic Bugs in IOT Device Platforms and Networks", with affiliation of ABES Engineering College, Ghaziabad, Application No. 2021102704.

Webinars /Workshops /Training Sessions organized

- **Mr. Mahendra Gupta**, Chief Executive Officer, INurture Incubation Foundation had delivered a lecture as an expert speaker in the workshop on "Innovation and Entrepreneurship Ecosystem". It was scheduled on 13th April, 2021. The program was coordinated by Mr. Manish Kumar Sharma, Assistant Professor-IT.

- **Mr. Ayush Singh**, Founder, Nimble Farm, India had delivered a lecture as an expert speaker in the expert talk on " My Story Session with TIDE 2.0 Grant". It was scheduled on 16th April, 2021. The program was coordinated by Mr. Manish Kumar Sharma, Assistant Professor-IT.

- **Mr. Mahendra Gupta**, Chief Executive Officer, INurture Incubation Foundation had delivered a lecture as an expert speaker in the webinar on " Know Your Innovation and Entrepreneurship Wings (IIC and iNIF) ". It was scheduled on 19th April, 2021. The program was coordinated by Mr. Manish Kumar Sharma, Assistant Professor-IT.

- **Mr. Mahendra Gupta**, Chief Executive Officer, INurture Incubation Foundation had delivered a lecture as an expert speaker in the webinar on "COVID-19 Pandemic: Innovation opportunity in Darkness". It was scheduled on 15th May, 2021. The program was coordinated by Mr. Manish Kumar Sharma, Assistant Professor-IT.

- **Dr. Amit Kumar Dwivedi**, EDII-Ahmedabad had delivered a lecture as an expert speaker in the webinar on " Entrepreneurship as Career option". It was scheduled on 20th May, 2021. The program was coordinated by Mr. Manish Kumar Sharma and Ms. Shelly Gupta, Assistant Professor-IT.

- **CA. Jatin Srivastava**, Co-Founder & Partner, 'Seth & Associates' Firm, India had delivered a lecture as an expert speaker in the webinar on "Legal and Ethical Steps for the Establishment of Startup". It was scheduled on 09th June, 2021. The program was coordinated by Mr. Manish Kumar Sharma, Assistant Professor-IT.

- **Dr. Amit Sinha**, Mr. Mahendra Kumar Gupta, Mr. Aatif Jamshed had delivered a lecture in Orientation Session for all students & faculty members under IIC-ABESEC. It was conducted by Innovation Ambassadors of this council and was scheduled on 12th June, 2021. The program was coordinated by Mr. Manish Kumar Sharma, Assistant Professor-IT.

- **Mr. Rahul Garg**, Director & Chief Architect – Prutor.ai, IIT Kanpur had delivered a lecture as an expert speaker in the webinar on " Full Stack Developer and its Career Prospective". It was scheduled on 26th June, 2021. The program was coordinated by Mr. Ashwin Perti and Mr. Manish Kumar Sharma, Assistant Professor-IT.

- **Dr. Himanshu Sharma**, District Coordinator & Nodal Officer (COVID – 19), Office of District Magistrate (West District), Govt. of NCT of Delhi had delivered a lecture as an expert speaker in the webinar on " India Fights COVID-19 & Post COVID Effect". It was scheduled on 29th June, 2021. The program was coordinated by Mr. Manish Kumar Sharma, Assistant Professor-IT.
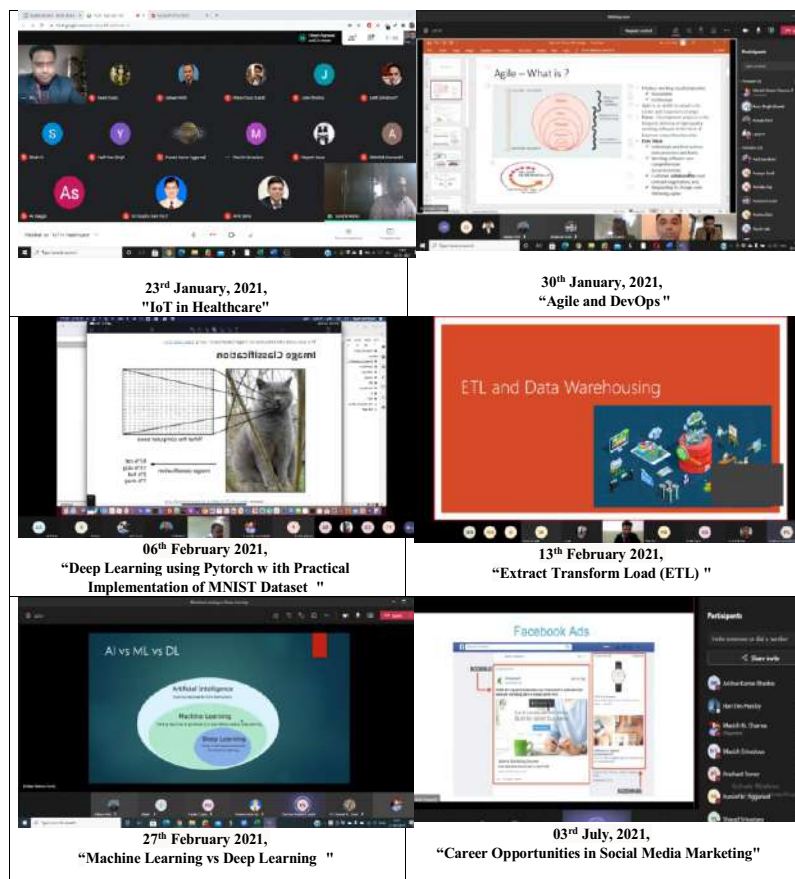
Student's Corner

Industry-Alumni Interaction

The Department of Information Technology organized Alumni interaction program in each semester. This helps our students to pace with industry needs and learn from their seniors. Some of such interactions are mentioned below:

➤ The Department of Information Technology under its initiative IT Industry- Alumni Academia Alliance (IT-IAAA) organized a webinar on "IoT in Healthcare", scheduled on 23rd January, 2021. The Speaker of the webinar was Mr. Sanchit Mehra, Module Lead, Pinelabs Pvt. Ltd., Noida, India. The program was coordinated by Mr. Manish Kumar Sharma, Assistant Professor-IT.

➤ The Department of Information Technology under its initiative "IT Industry-Alumni Academia Alliance (IT-IAAA-2020)" organized a webinar on "Agile and DevOps", Scheduled on 30th January, 2021. The Speaker of the webinar was Mr. Arun Singh, Director, Swiss Bank, Pune, India. The program was coordinated by Mr. Manish Kumar Sharma, Assistant Professor-IT.

➤ The Department of Information Technology under its initiative "IT Industry-Alumni Academia Alliance (IT-IAAA-2020)" organized a webinar on "Deep Learning using Pytorch with Practical Implementation of MNIST Dataset", Scheduled on 06th February 2021. The Speaker of the webinar was Dr. Nagender Aneja, Senior Manager, Innovation and Enterprise Office, Universiti Brunei Darussalam, Brunei. The program was coordinated by Mr. Manish Kumar Sharma, Assistant Professor-IT.

➤ The Department of Information Technology under its initiative "IT Industry-Alumni Academia Alliance (IT-IAAA-2020)" organized a webinar on "Extract Transform Load (ETL)", Scheduled on 13th February 2021. The Speaker of the webinar was Mr. Parmeshwar Kumar, Fidelity International Ltd. The program was coordinated by Mr. Manish Kumar Sharma, Assistant Professor-IT.

➤ The Department of Information Technology under its initiative "IT Industry-Alumni Academia Alliance (IT-IAAA-2020)" organized a webinar on "Machine Learning vs Deep Learning ", Scheduled on 27th February 2021. The Speaker of the webinar was Mr. Krishan Gopal Sharma, Research intern at IIT Ropar. The program was coordinated by Mr. Manish Kumar Sharma, Assistant Professor-IT.

➤ The Department of Information Technology under its initiative "IT Industry-Alumni Academia Alliance (IT-IAAA-2020)" organized a webinar on "Career Opportunities in Social Media Marketing", Scheduled on 03rd July, 2021. The Speaker of the webinar was Mr. Arif Khan, Pursuing MBA from Langara College of Higher Learning, Vancouver, Canada, Ex. Social Media Marketing Specialist, EMXCEL Solution, Gurugram. The program was coordinated by Mr. Manish Kumar Sharma, Assistant Professor-IT.

23rd January, 2021,
"IoT in Healthcare"

30th January, 2021,
"Agile and DevOps "

06th February 2021,
"Deep Learning using Pytorch w ith Practical
Implementation of MNIST Dataset "

13th February 2021,
"Extract Transform Load (ETL) "

27th February 2021,
"Machine Learning vs Deep Learning "

03rd July, 2021,
"Career Opportunities in Social Media Marketing"

IEEE Student Branch (STB-04661)

The Department of Information Technology, ABESEC Ghaziabad has IEEE Student Branch: It provide opportunities to meet and learn from fellow IEEE Student and Graduate Student Members and engage with professional IEEE members. It also helps students to enhance academic career, offering programs, activities, and professional networking opportunities that build critical skills outside of the classroom. Some of such interactions are mentioned below:

➤ IEEE Student Branch: Organized a webinar on "IEEE Awareness Talk: Opportunities for students and faculty members", scheduled on 23th May, 2021. The speaker of the webinar was Dr. Mahesh Jangid, Associate Professor, Manipal University Jaipur. The program was coordinated by Dr. Harikesh Singh, Associate Professor-IT and Ms. Vipresh Pandey, Student Coordinator.

➤ IEEE Student Branch: Organized an event on "IEEE UG Project Presentation Contest'2021", scheduled on 11th July 2021. The Chair Person of the evaluation committee was Dr. Kamlesh Kumar Singh: Amity University, Lucknow, IEEE Senior Member, Dr. Minakshi Memoria: Uttaranchal University Dehradun, IEEE Senior Member, Mr. Tirath Sharma: Director, Intigate Technology Pvt. Ltd., B.Tech. IT Alumni, Mr. Tarun Varshney: Build and Release Engineer, Samsung R&D. 3 best projects were selected on different criteria. The event was coordinated by Dr. Harikesh Singh, Faculty Counsellor, IEEE Student Branch and Mr. Vipresh Pandey, Student Chair, IEEE.

Congratulations!!

Mr. Manav Agarwal
B.Tech. (IT), 3rd yr, ABESEC

For successfully qualifying
Google Summer of Code (GSoC),
which is a global program organized by

For successfully qualifying
Two International Certification within a year

CISCO Certified CyberOps Associate

the global certification exam

and

Certified Ethical Hacker

administered by Internationally renowned EC-Council

Vishal Jain
B.Tech (IT), 2017-21

He recognized as a CISCO Certified CyberOps Associate. He has scored 88.1% marks in the CISCO International Certification exam. He is also selected in HCL Technologies, Infosys, and Capgemini India. He has been trained at our College-Center of Excellence: Cyber Security & Networking for the last two years in the Domain of Cyber Security.

Congratulations!!

Pranav Arora
B.Tech (IT), 2017-21
CISCO Systems | **18.0-29.8** LPA

Kanika Sharma
B.Tech (IT), 2017-21
Xperi Corporation | **10.0** LPA

Shrikant Bhardwaj **Ashutosh Shishodia** **Madhav Bhasin**

B.Tech (IT), 2017-21 | Devslane | 8.0 LPA

Akash Dhoundhiyal
B.Tech (IT), 2017-21
Infosys | **8.0** LPA

Apurva Singh
B.Tech (IT), 2017-21
Infoedge | **7.25** LPA

Vidhi Mittal
B.Tech (IT) 3rd yr, 2018-22
Medly Pharmacy | **7.0** LPA

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for getting
successful placements

Placement Highlights-IT

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124

HIGHEST SALARY

35.0

Lacs per annum

NUMBER OF * **STUDENTS PLACED**

121

97.58%
STUDENTS PLACED

TOTAL NUMBER* OF OFFERS

286

65
STUDENTS WITH
MORE THAN 1 OFFER

ABES Engineering College Ghaziabad

Department of Information Technology

Congratulations!!

Mr. Parvej Ansari   Mr. Akash Garg

4th Year IT, ABESEC Batch-2021
for successful placement in

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