



ISSUE-V

Session:2020-21

Engineering College Ajmer News
Department of Computer Science & Engineering

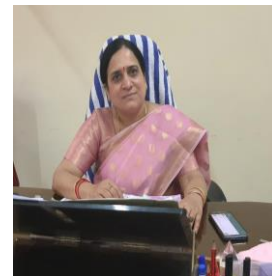
ECA NEWS

ENGINEERING COLLEGE AJMER (ECA) NEWSLETTER

Principal's Desk

It is a matter of great pride and satisfaction for Engineering College Ajmer to bring out the news letter released from the Department of Computer Science and Engineering for the year 2020-21. The newsletter is a forum to share the achievements, progress and memories of department. I am sure that this newsletter will be informative and resourceful. I must say that the department has made remarkable progress in academic and co-curricular activities. The department is striving hard for the overall development of students through expert talks, interaction with Alumni, Industry consultation, Cyber Security Club activities, Parents Teacher Meetings, Student Competitions, and many more. My heartfelt congratulations to Head of the Department, Faculty, Staff members and students for their fruitful efforts. I convey my best wishes to the students, faculty and staff members of the department. I hope that this practice will be continued in future also.

Dr. Rekha Mehra
Principal, EC Ajmer



Vision

To produce competent professionals in the field of computer science.

Head of Department's Desk

Welcome to the Department of Computer Science and Engineering. I congratulate faculty, staff members and students of Computer Science and Engineering Department for the fifth issue of newsletter. Department has two undergraduate programmes, two M.Tech. programmes, MCA programme along with PhD Research center. Our aim is to produce competent professionals in the field of computer science. We have a long tradition of excellence in educating, mentoring, and inspiring future technology leaders and researchers in the area of Computer Science and Engineering.

We facilitate computer center and advance computer labs to our students for learning, developing, and leading lives of impact. We are focusing on providing best opportunities to our students to participate in various events, hackathons, internships, techfests, and research projects to expand their knowledge. Apart from regular classroom teaching and labs, we are organizing conferences, expert lectures to interact with people of repute and to understand the latest developments in the field of Computer Engineering. We are strongly committed to resolve all kind of problems of our students.

Our students are innovative, quick-learners and self-disciplined. Recently, our students have been placed in Sopra Steria, MTX, TCS, Metacube, Motherson Sumi, Wipro, Capgemini, Celebel Technologies, Tejas Networks, etc. I am sure and confident that the students of the our department are continuously working hard to excel. Our alumni have an extensive track record of making a positive difference in the world.

Further, our efforts will be to collaborate with academia, research labs and industries at both National and International level. We invite comments and suggestions from students, parents, alumnus, corporate partners. This will help us to move next level and provide us with encouragement and excellence.

Dr. Jyoti Gajrani
HoD, Department of Computer Science & Engineering



Mission

Prepare the students with strong fundamental concepts, analytical capability, programming, problem solving skills and strong ethics. Provide opportunities to promote organizational and leadership skills in students. To disseminate digital innovation among society.



ENGINEERING COLLEGE AJMER (ECA) NEWSLETTER

ISSUE-V

Session:2020-21

Journal Paper/ Book Publication

- Chaudhary, A., Chouhan, K. S., Gajrani, J., & Sharma, B. (2020). Deep Learning With PyTorch. In *Machine Learning and Deep Learning in Real-Time Applications* (pp. 61-95). IGI Global.
- Jain, V. K., Mazumdar, A. P., & Govil, M. C. (2021). Toward Adaptive Range for Parallel Connections in CoAP. *Arabian Journal for Science and Engineering*, 46(4), 3595-3611.
- Singh, R., Chaudhary, H. R., & Dubey, A. K. (2020). Trajectory Design for UAV-to-Ground Communication with Energy Optimization Using Genetic Algorithm for Agriculture Application. *IEEE Sensors Journal*.
- Boolchandani, P., Taji, S. & Gupta, S. (2020). A Comparative Overview of Different Image Segmentation Techniques. *International Journal of Computer Science Engineering and Information Technology Research*, 10(2), 51-58.
- Choudhary, M. K., & Singh, R. (2021). Enhanced the Security through Asymmetric Based RSA Algorithm. *International Journal of Scientific Research & Engineering Trends*, 7(1), 353-357.
- Chhabra, G., Prasad, A., Venkatadri, M., Sisodia, D., Singh, R., (2021). An Approach for the Transformation of Human Emotion and Energy-Field using Sound Therapy. *Turkish Journal of Computer and Mathematics Education (TURCOMAT)*, 12(6), 3172-3183.
- Chaudhary, A., Gupta, H. P., Shukla, K. K., & Dutta, T. (2020). Sensor Signals-Based Early Dementia Detection System Using Travel Pattern Classification. *IEEE Sensors Journal*, 20(23), 14474-14481.
- Trivedi, P., (2020). Watermarking for Digital Images with Wavelet: A Survey. *International Journal of Recent Development in Computer Technology & Software Applications*.



ENGINEERING COLLEGE AJMER (ECA) NEWSLETTER

ISSUE-V
Session:2020-21

Conference Paper Publication

- Tanwar, N., Sharma, V. P., & Punia, S. K. (2021). Improved SMO Based on Perturbation Rate in Local Leader Phase. In *Advanced Computing: 10th International Conference, IACC 2020, Panaji, Goa, India, December 5–6, 2020, Revised Selected Papers, Part II 10* (pp. 231-249). Springer Singapore.
- Jain, V. K., & Gajrani, J. (2020, September). IoT Security: A Survey of Issues, Attacks and Defences. In *Congress on Intelligent Systems* (pp. 219-236). Springer, Singapore.
- Gajrani, J. (2021). Android Malware Analysis using Machine Learning Classifiers. In *ICCIPS 2021, Springer Advances in Intelligent Systems and Computing series*.
- Jain, V. K. (2021). CoAP Congestion Control: A Dynamic Send Rate based Approach. In *GUCON 2021, IEEE*.
- Narayan, S., Vipparthi, S. K., & Mazumdar, A. P. (2020, November). Parity Check Based Descriptor for Hand Gesture Detection and Recognition. In *2020 IEEE 15th International Conference on Industrial and Information Systems (ICIIS)* (pp. 263-268). IEEE.
- Narayan, S., Vipparthi, S. K., & Mazumdar, A. P. (2020, November). Hand Gesture Recognition with Gaussian Scaling and Kirsch Edge Rotation. In *2020 IEEE 15th International Conference on Industrial and Information Systems (ICIIS)* (pp. 258-262). IEEE.
- Choudhary, P., & Tazi, S. N. (2020, November). An Adaptive System of Yogic Gesture Recognition for Human Computer Interaction. In *2020 IEEE 15th International Conference on Industrial and Information Systems (ICIIS)* (pp. 399-402). IEEE.
- Gupta, S., Sharma, N., Rathi, R., & Gupta, D. (2021). Dual Detection Procedure to Secure Flying Ad Hoc Networks: A Trust-Based Framework. In *Smart Technologies in Data Science and Communication* (pp. 83-95). Springer, Singapore.

ECA NEWS

Engineering College Ajmer News
Department of Computer Science & Engineering



ENGINEERING COLLEGE AJMER (ECA) NEWSLETTER

ISSUE-V

Session:2020-21

Conference/Workshop/FDP/STC Organized

- Two days International Conference on "Computational Intelligence and Emerging Power System 2021, Springer (AIS)" in collaboration with Department of Electrical Engineering, 9 March-10 March 2021.
- Two Days Hackathon on "National Level Online Hackathon Codethon'21", 17 February-18 February 2021.
- Mr. Dinesh Kumar Khunteta act as Coordinator in One Week AICTE-ATAL Sponsored FDP on "Cyber Security: A step towards awareness to Cyber Crime", 14 June -18 June 2021.
- Ten Days Training Program on "Basic Computer Course", 22 February- 4 March 2021.
- Expert Talk on "Current Trends in Cryptography", 22 February 2021.
- Expert Talk on "DDos Attacks & It's Countermeasures", 19 December 2020.
- Expert Talk on "CyberSecurity Awareness", 18 March 2021.
- Dr. Jyoti Gajrani and Mr. Dilip Sisodia act as Coordinators in One Week FDP on "ICT in Research, Teaching and Learning", 7 September-12 September 2020 organized by Department of ASH.
- Dr. Jyoti Gajrani act as Coordinator in One Week STC on "Future Perspective of Electrical Power System", 14 June -18 June 2021 organized by Department of Electrical Engineering.
- Mr. S.N. Tazi act as Coordinator in Two Week ICT FDP on "Python Programming", 7 September- 18 September 2020 organized by MNIT Jaipur
- Mr. S.N. Tazi act as organizing committee member in Two Days Congress on "Intelligent Systems , World Conference", 5 September- 6 September 2020 organized by Soft Computing Research Society.
- Dr. Jyoti Gajrani , Mr. Dilip Sisodia and Mr. S.N. Tazi act as Technical committee members in One Day Webinar on "Women at workplace : The act of 2013", 8 July 2020 organized by women cell.
- Dr. Jyoti Gajrani and Mr. Dilip Sisodia act as Co-coordinators in STTP on "INDUSTRY 4.0 & CONDITION MONITORING", 15 March -19 March 2021 organized by Department of Mechanical Engineering.
- Mr. Dilip Sisodia act as organizing committee member in e-STTP on "Computational Intelligence and Its Applications", 19 October -23 October 2021 organized by Department of Electrical Engineering.



ENGINEERING COLLEGE AJMER (ECA) NEWSLETTER

ISSUE-V

Session:2020-21

Expert Lectures Delivered

- *Dr. Jyoti Gajrani Delivered Expert Lecture on “Android Security” on 17th December 2020 in International Online Workshop on Information and Network Security Challenges and Solutions using Artificial Intelligence Approaches at Cochin University of Science and Technology, 14th -18th December, 2020.*
- *Dr. Jyoti Gajrani Delivered Expert Lecture on “Hiding Privacy Leaks through Reflection in Android Apps” on 19th December, 2020 in AICTE-ISTE Online Mode Refresher Program on Mobile Security, Cloud Computing Security Challenges: Trends and Future Directions at AVPTI Rajkot, 14th -19th December, 2020.*
- *Dr. Jyoti Gajrani Delivered Expert Lecture on “Exploitation-Prone Vulnerabilities and their Detection in Android” on 28th April, 2021 in AICTE-ISTE Online Mode Refresher Program on Security and Privacy: Trends and Directions at AVPTI Rajkot, 28th April – 4th May 2021.*
- *Dr. Jyoti Gajrani Delivered Expert Lecture on “Cyber Crime: Investigators and Attackers Perspective” in AICTE-ISTE sponsored FDP on “Digital forensics and Cybercrime” organized by Center for Cryptography, Cyber Security & Digital forensics(C3-SDF), Department of Computer Science & Engineering, LNMIIT, Jaipur, Rajasthan, 24th – 29th May 2021.*
- *Mr. Pawan Kumar Delivered 158 Days NASSCOM Future Skill Training on “Cyber Security”, 2 July-22 September 2020.*
- *Mr. Prakash Meena Delivered 60 Days NASSCOM Future Skill Training on” Data Science and Analytics”, 22 September- 4 November 2020.*
- *Dr. Anita Choudhary, Ms. Shalini Yadav, Ms. Suman Choudhary, Mr. Rakesh Kumar Verma, Mr. Pawan Kumar, Mr. Satish Kumar Ray have delivered lectures in Ten Days Training Program on “Basic Computer Course”, for economical backward students of nearby government schools and non teaching staff, 22 February- 4 March 2021.*
- *Mr. Pawan kumar delivered Expert Lecture on 1st and 6th June 2021 in Two Week Training on “C and C++ Programming”organized for B.Tech 2nd Year Students of Department of computer science & Engineering during 1st – 15th June 2021.*
- *Mr. Anurag Jain Delivered Expert Lecture on 2nd and 3rd June 2021 Two Week Training on “C and C++ Programming”organized for B.Tech 2nd Year Students of Department of computer science & Engineering during 1st – 15th June 2021.*
- *Mr. Rakesh Verma Delivered Expert Lecture on 4th and 5th June 2021 Two Week Training on “C and C++ Programming”organized for B.Tech 2nd Year Students of Department of computer science & Engineering during 1st – 15th June 2021.*

ECA NEWS

Engineering College Ajmer News
Department of Computer Science & Engineering



ENGINEERING COLLEGE AJMER (ECA) NEWSLETTER

ISSUE-V
Session:2020-21

Expert Lectures Delivered

- *Mr. Satish Ray Delivered Expert Lecture on 7th and 11th June 2021 in Two Week Training on "C and C++ Programming"organized for B.Tech 2nd Year Students of Department of computer science & Engineering during 1st – 15th June 2021.*
- *Dr. Anita Choudhary Delivered Expert Lecture on 8th and 10th June 2021 in Two Week Training on "C and C++ Programming"organized for B.Tech 2nd Year Students of Department of computer science & Engineering during 1st – 15th June 2021.*
- *Mrs. Shalini Yadav Delivered Expert Lecture on 9th and 12th June 2021 in Two Week Training on "C and C++ Programming"organized for B.Tech 2nd Year Students of Department of computer science & Engineering during 1st – 15th June 2021.*
- *Mrs. Suman Chaudhary Delivered Expert Lecture on 13th and 14th June 2021 in Two Week Training on "C and C++ Programming"organized for B.Tech 2nd Year Students of Department of computer science & Engineering during 1st – 15th June 2021.*

Engineering College Ajmer News
Department of Computer Science & Engineering

ECA NEWS



ENGINEERING COLLEGE AJMER (ECA) NEWSLETTER

ISSUE-V

Session:2020-21

FDP / STC Attended

- Mr. S. N. Tazi, Mr. Dilip Sisodia, Attended Two Week ICT FDP on “Machine Learning for Computer Vision” Organized by E & ICT Academy, MNIT Jaipur, 29th June- 10th July 2020.
- Mr. Dilip Sisodia, Attended Online workshop on UHV on the theme “Inculcating Universal Human Values in Technical Education” Organized by AICTE , 9th July – 13th July 2020.
- Mr. Dilip Sisodia, Mr. Ravinder Singh, Attended One Week Online FDP on “Artificial Intelligence Applications through Machine Learning”, Organized by BITS, Warangal & CSI , 14th -18th July 2020.
- Dr. Jyoti Gajrani, Mr. S. N. Tazi, Mr. Pawan Kumar, Mr. Dilip Sisodia, Attended one day Online Webinar on “Virtual Lab” organized by Virtual Labs: An MHRD Govt of India Initiative & Engineering College Ajmer on 20th July 2020.
- Mr. Dilip Sisodia, Attended AICTE Sponsored Online STTP On “Advanced Deep Learning Techniques with Python” organized by Anurag Group of Institutions, Hyderabad & AICTE, 27th July – 1st August 2020.
- Mr. Deepak Gupta, Mr. Dilip Sisodia, Attended Online Faculty Development Programme on “ICT Tools for Teaching, Learning Process and Institute” organized by MeitY, GOI, MNIT, E&ICTA, 10th- 21st August 2020.
- Mr. Prakash Meena, Attended One Week Online FDP on Moodle Learning Management System organized by STP- IIT Bombay and Shridevi Women’s Engineering College, 10th - 14th August 2020
- Mr. Dilip Sisodia, Attended e-Faculty Training Program on Machine Learning Technologies for Social Media Analytics organized by C-DAC & IIT Guwahati, 19th - 23rd August 2020.
- Mr. Dilip Sisodia, Attended Online FDP on “Blended & Flipped Approach in Teaching and Learning” organized by ATAL Academy, NITTTR Chennai, 24th – 28th August 2020.
- Mr. S. N. Tazi, Attended One Week STC on “Advance Deep Learning Techniques with Python” organized by AICTE ATAL Academy, 31st August – 5th September 2020.
- Dr. Jyoti Gajrani, Mr. Atul Chaudhary, Mr. Anil Kumar Tailor, Mr. Dilip Sisodia, Mr. Ravinder Singh, Attended Online Short Term Course on “ICT in Research, Teaching & Learning (ICTRTL-2020)” organized by Engineering College Ajmer under TEQIP-III, 7th – 11th September 2020.
- Mr. S. N. Tazi, Mr. Ravinder Singh, Attended Two Week ICT FDP on “Python Programming” organized by E & ICT Academy, IIT Kanpur, 7th -18th September 2020.
- Mr. Ravinder Singh, Mr. Dilip Sisodia, Attended Online FDP on “Universal Human Values for DEEKSHARAMBH” organized by NIT Patna, 21st -25th September 2020.



ENGINEERING COLLEGE AJMER (ECA) NEWSLETTER

ISSUE-V
Session:2020-21

FDP / STC Attended

- Mr. Pawan Kumar, Attended "GuruCool Program (6 Days Training on Emerging Technologies followed by a Project Build-a-Thon)" organized by IBM, India, 28th September- 6th October 2020.
- Mr. Ravinder Singh, Mr. Dilip Sisodia, Attended Online FDP on "Quantum Computing" organized by ATAL Academy, CDAC, 5th – 9th October 2020.
- Mr. S. N. Tazi, Mr. Dilip Sisodia, Attended Online FDP on "Internet of Things (IoT) (Applications in Biomedical Instrumentation, Healthcare and Pharma)" organized by ATAL Academy, 12th – 16th October 2020.
- Mr. Anil Kumar Tailor, Mr. Atul Chaudhary, Mr. Pawan Kumar, Mr. Dilip Sisodia, Attended One Week E-STTP on "Computational Intelligence & Its Applications" organized by Department of EE & Department of Management Studies, EC Ajmer, 19th – 23rd October 2020.
- Mr. Prakash Meena, Attended Online FDP on "Data Science" organized by AICTE ATAL, 20th -24th October 2020.
- Mr. Prakash Meena, Attended Online STC on "Cyber Security and Modern Cryptography" organized by TEQIP-KIT IIIT Kharagpur, 9th -13th November 2020.
- Mr. Atul Chaudhary, Attended e-STTP on "Automation, Control and Intelligent Systems (ACIS-2020)" organized by Engg. College, Ajmer, 23rd – 27th November 2020.
- Mr. Vishnu Prakash Sharma, Mr. H R Choudhary, Mr. Vinesh Jain, Mr. Dinesh Kumar Khunteta, Mr. Prakash Meena, Attended AICTE-ISTE refresher program on "Mobile security, cloud computing Security Challenges" organized ISTE new Delhi and AVPTI Rajkot, 14th – 19th December 2020.
- Mr. Vinesh Kumar Jain, Mr. Dinesh Kumar Khunteta, Attended FDP on "Cyber Security" Organized by AICTE ATAL and Dr. M.G.R. Educational and Research Institute, 4th - 8th January 2021.
- Mr. Prakash Meena, Attended online FDP on "Internet of Things" organized by AICTE ATAL, 8th - 12th February 2021.
- Mr. Deepak Gupta, Ms. Shikha Gupta, Attended FDP on "Inculcating Universal Human Values in Technical Education" organized by AICTE, 8th - 12th February 2021.
- Mr. Pawan Kumar, Attended FDP on "Recent Trends and Applications in Machine Learning" organized by Department of IT, Indian Institute of Engineering Science and Technology, Shibpur, 15th - 19th February 2021.



ENGINEERING COLLEGE AJMER (ECA) NEWSLETTER

ISSUE-V

Session:2020-21

FDP / STC Attended

- Mr. Pawan Kumar, Attended Faculty Development Program on "Cyber Security" organized by E & ICT Academy, IIT Kanpur, 22th - 28th February 2021.
- Mr. Anil Kumar Tailor, Online Professional Training Program on "Pedagogy Techniques and Emerging Trends" organized by UCET Bikaner, 1st -10th March 2021.
- Dr. Jyoti Gajrani, Mr. Dinesh Kumar Khunteta, Mr. Dilip Sisodia, Attended One Week Short Term Course on "INDUSTRY 4.0 & CONDITION MONITORING" organized by Engineering College Ajmer, 15th – 19th March 2021.
- Mr. Pawan Kumar, Attended Two Week Faculty Development Program on Data Science organized by E & ICT Academy, IIT Kanpur, 15th - 26th March 2021.
- Mr. Vinesh Jain, Mr. Dinesh Kumar Khunteta, Mr. H R Choudhary, Attended AICTE-ISTE Refresher Programme on Security & Privacy: Trends and Directions Organized by A. V. Parekh Technical Institute, Rajkot, Gujarat, 28th April – 4th May 2021.
- Mr. Pawan Kumar, Attended Faculty Development Program on Python organized by E & ICT Academy, IIT Kanpur, 24th - 29th May 2021.
- Dr. Jyoti Gajrani, Mr. Vinesh Jain, Mr. Vishnu Prakash Sharma, H R Choudhary, Mr. Deepak Gupta, Mr. Anil Kumar Tailor, Mr. Dilip Sisodia, One week ATAL-AICTE on Cyber Security: A Step Towards Awareness to Cybercrime organized by Engineering College Ajmer, 14th - 18th June 2021.
- Ms. Shikha Gupta, Attended AICTE Training and Learning (ATAL) Academy FDP on Quantum Computing organized by Govt. College of Engineering, Sengipatti, Thanjavur, 21st -25th June 2021.



ENGINEERING COLLEGE AJMER (ECA) NEWSLETTER

ISSUE-V

Session:2020-21

Awards/Appreciated/Achievements

- Ph.D awarded to Dr. Jyoti Gajrani from Malviya National Institute of Technology Jaipur, Rajasthan.
- Dr. Jyoti Gajrani is the editor of proceeding of International Conference on “Computational Intelligence and Emerging Power System”, Springer (AIS).
- Mr. Vinesh Kumar Jain(Principal Investigator) and Dr. Rakesh Rathi, Mrs. Jyoti Gajrani (Co-Principal Investigator) for research proposal entitled “Performance Measurement of Security Algorithms on IOT Devices” under Competitive Research Scheme Funded by RTU ATU(TEQIP-III) in September 2019.
- Dr. Jyoti Gajrani and team (Shreeyansh Parihar, Aniket Kushwaha, Mrinal Jain & Nivesh Singh Chauhan) Developed “E-lecture App” for Technical Education Department. This is inaugurated by Mrs. Suchi Sharma, Ex- Secretary Department of Higher & Technical Education, Govt. of Rajasthan.
- Cyber Security Club is constituted with experts from Police department, Police University
- Constituted Industry Consultation Committee including experts from Facebook, Apple, Amazon and various reputed IT Industries.
- Mr. Saleem Khan Chouhan (CS, 2016 batch), Ms. Monika Khareenta (IT, 2015 batch), Mr. Bhanu Pratap Singh (CS, 2011 batch), Mr. Mukesh Kumar (CS, 2010 batch) Qualified RAS-2018.
- 15 students of B. Tech CS & IT 4th Year have qualified in GATE Examination 2021.
- Abhishek Jangid student of B.Tech CS 4th Year qualified GATE 2021 with 1460 All India Rank (AIR)
- Ankit Bajaj student of B.Tech IT 4th Year qualified GATE 2021 with 5571 All India Rank (AIR)
- Online PTM conducted for the CS&IT IInd year successfully.
- Mr. Prateek Chenani got Third Position in Environmental Awareness Quiz Competition organized by UCET, BTU.
- 16 students were qualified NPTEL certification Examination.

Training & Placement

- Highest Pay Package of Rs. 10 Lakhs per annum to students of Computer Science & Engineering/Information Technology.
- Placement of students in major companies like Capgemini, TechMahindra, MotherSumi, Metacube Ltd., Sopra Steria Pvt. Ltd, Celebal Technologies etc.
- Job placement offered to the B.Tech. Computer Science & Engineering and Information Technology students was 116.



**ENGINEERING COLLEGE AJMER
(ECA) NEWSLETTER**

Editorial Committee



**Mr. Dinesh Kr. Khunteta, Assistant
Professor, CSE Department (Convener)**



**Mr. Rakesh Verma, Assistant Professor
(NPIU), CSE Department**



**Mr. Satish Kumar Ray, Assistant Professor
(NPIU), CSE Department**



**Mr. Pawan Kumar, Assistant Professor
(NPIU), CSE Department**