



संगणक विज्ञान एवं अभियांत्रिकी विभाग

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



SVNIT NEWSLETTER JULY 2023, ISSUE-9

DEPARTMENT MISSION

The Mission of Computer Science and Engineering Department is to education that encourages students to read critically, reason analytically, communicate persuasively, apply professionally and prepare them to excel in the field of computing.

DEPARTMENT VISION

The vision of Computer Science and Engineering Department is to recognize itself as a globally renowned learning center in the field of Computer Science & Engineering and foster research and innovations for the global good.

Message from Head of The Department



I welcome all the budding Computer Scientists and Engineers to the new academic session of year 2023-24. Your journey is begun to become the best version of yourself and you are here to create the masterpiece that is your life itself. Let me take few words from the book of Vincent Gogh, the famous artist of 19th century “Embrace your struggles and use them as opportunities to grow and learn”. Life is not a race with others but with ourselves trying to improve continuously by absorbing knowledge from all possible sources including machines.

The technology has divided people in two categories: people who tell computers what to do, and people who are told by computers what to do. AI have made the processes incredibly accurate, fast and precise which were formerly thought to require human intellect but are now routinely accomplished by computers, like Multi Lingual Understanding and Processing, Scene and video generation, automatic learning from the mine of data and predicting business data which need complex analysis.

The new technology may reduce opportunities for the monotonous and rigorous workers but has created the unbounded horizon of opportunists for innovations. It is a responsibility of a computer scientist to make ethical use of data, process and technology for the betterment of mankind. Let’s altogether make the best use of technology, intelligence and interactions to shape up your future and create the ample of opportunities for others also.

Dr. Rupa G. Mehta
Associate Professor & Head,
DoCSE, SVNIT, Surat
Email: hod@coed.svnit.ac.in

Department of Artificial Intelligence

With an aim to bolster the research and development in the field of Artificial Intelligence (AI), the Department of Artificial Intelligence has been set up at Sardar Vallabhbhai National Institute of Technology, Surat in year 2023. The objective of the department is to strengthen education and research in the field of Artificial Intelligence, Machine Learning, Social Science, Natural Language Processing, Soft Computing, Computer Vision and allied areas.

The department of AI has started offering B.Tech. and Ph.D. programs in Artificial Intelligence from academic year 2023-24. The student intake of B.Tech. (AI) program is 120.

The faculty members and staff of department of Computer Science and Engineering have been actively involved in overall functioning of department of AI.

Dr. Sankita J Patel, faculty member of the department of Computer Science and Engineering is currently the Faculty In-charge of the Department of AI.

The department of Computer Science and Engineering has introduced two new M. Tech. programs from academic year 2023-24

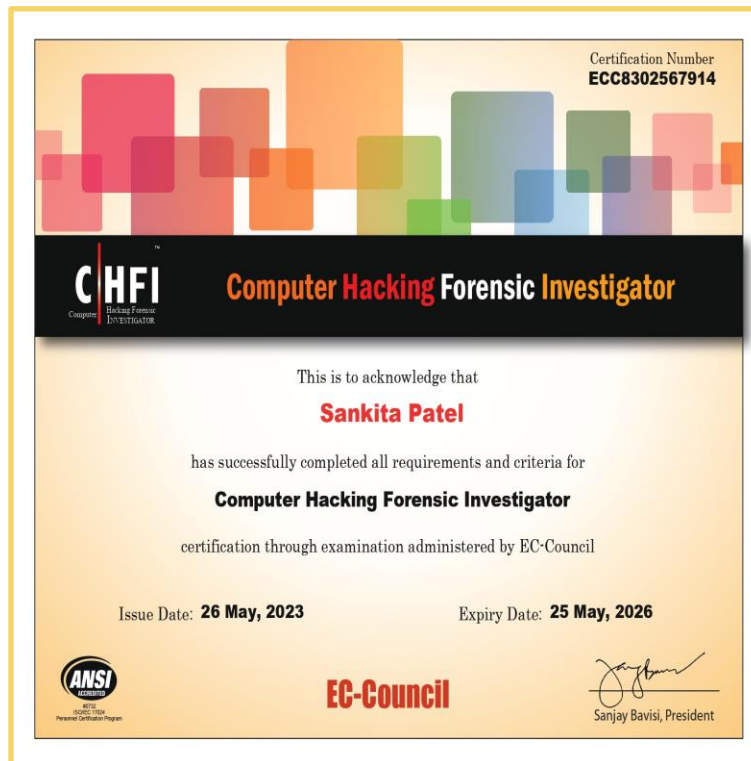
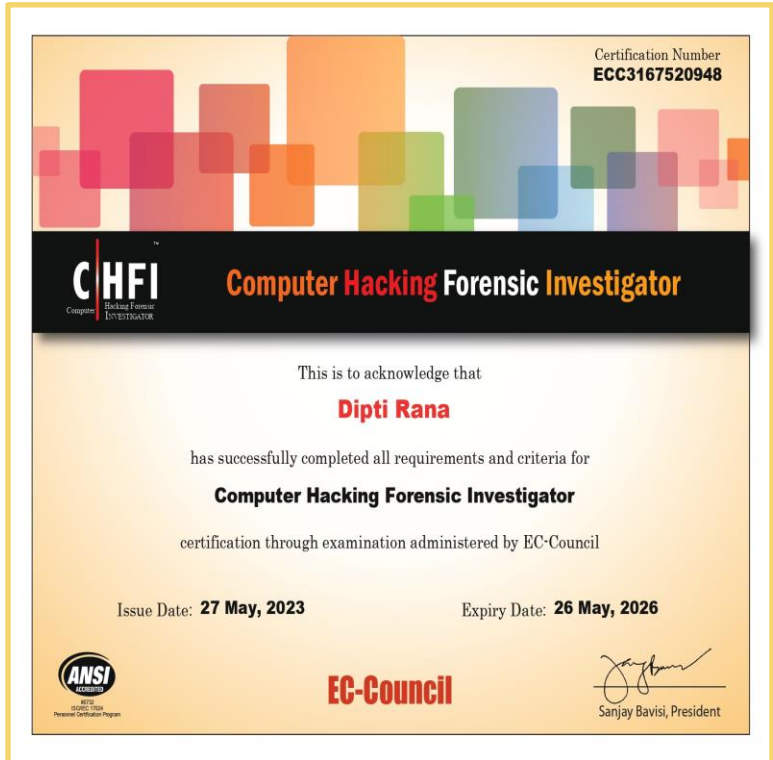
(1) M. Tech. Computer Science and Engineering with Specialization in Data Science

(Student Intake: 30)

(2) M. Tech. Computer Science and Engineering with Specialization in Information Security & Privacy (Student Intake: 30)

Faculty Achievements

Prof. Mukesh A. Zaveri, Dr. Dipti P. Rana and Dr. Sankita J. Patel have successfully passed the certification exam "Computer Hacking Forensic Investigator v10 (CHFI)" administered by EC-Council.



Student Achievements

Shivani Vora (D17CO002)

Shivani Vora has joined C. K. Pitahwala College of Engineering and Technology as Assistant Professor in Department of Information Technology.

Pranita Mahajan (DS18CO004)

Pranita Mahajan has joined Elsevier as Senior Data Scientist in Department of Information Technology.

Divy Awasthi (U21CS026)

Divya Awasthi has Secured 1st position in the All India Inter NIT Tournament of Badminton held at NIT Silchar during 18-20 November, 2022

Phani Aditya (U21CS028)

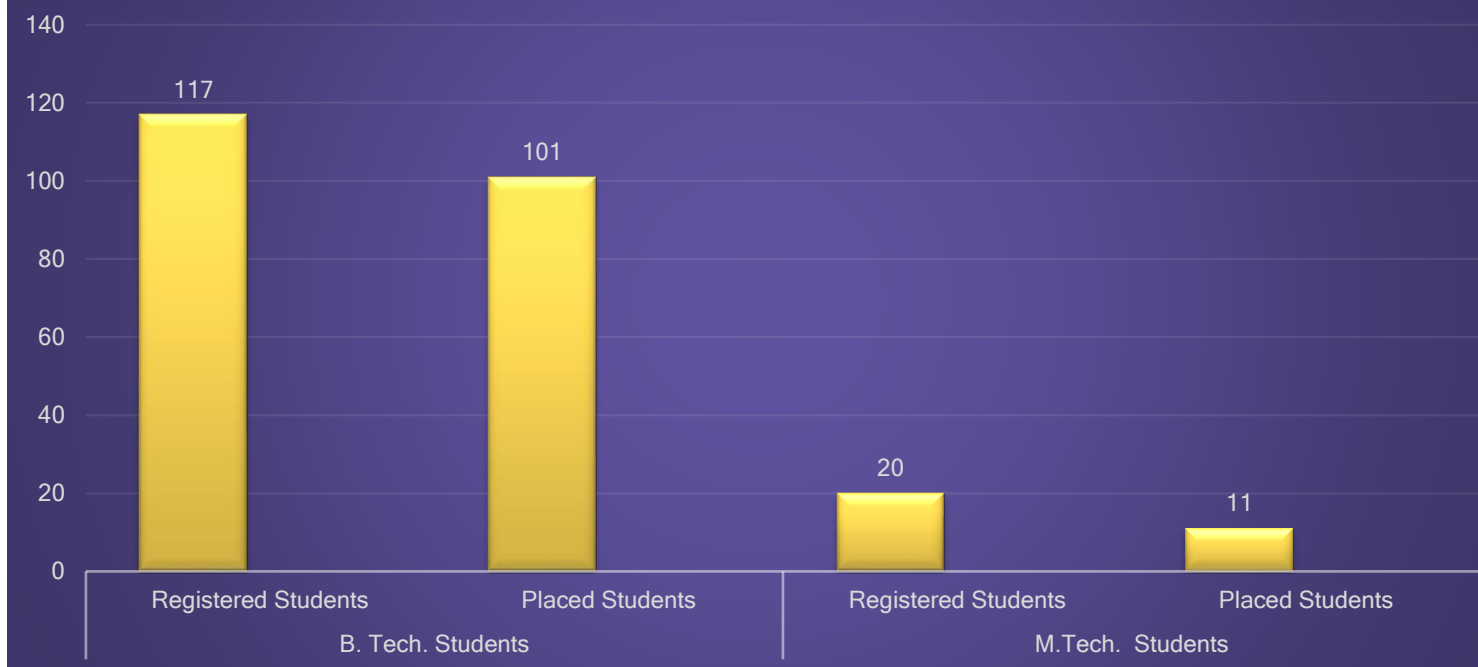
Phani Aditya has participated in the All India Inter NIT Tournament of Chess at NIT Silchar during 18-20 November, 2022

Radhika Jajoo (U21CS056)

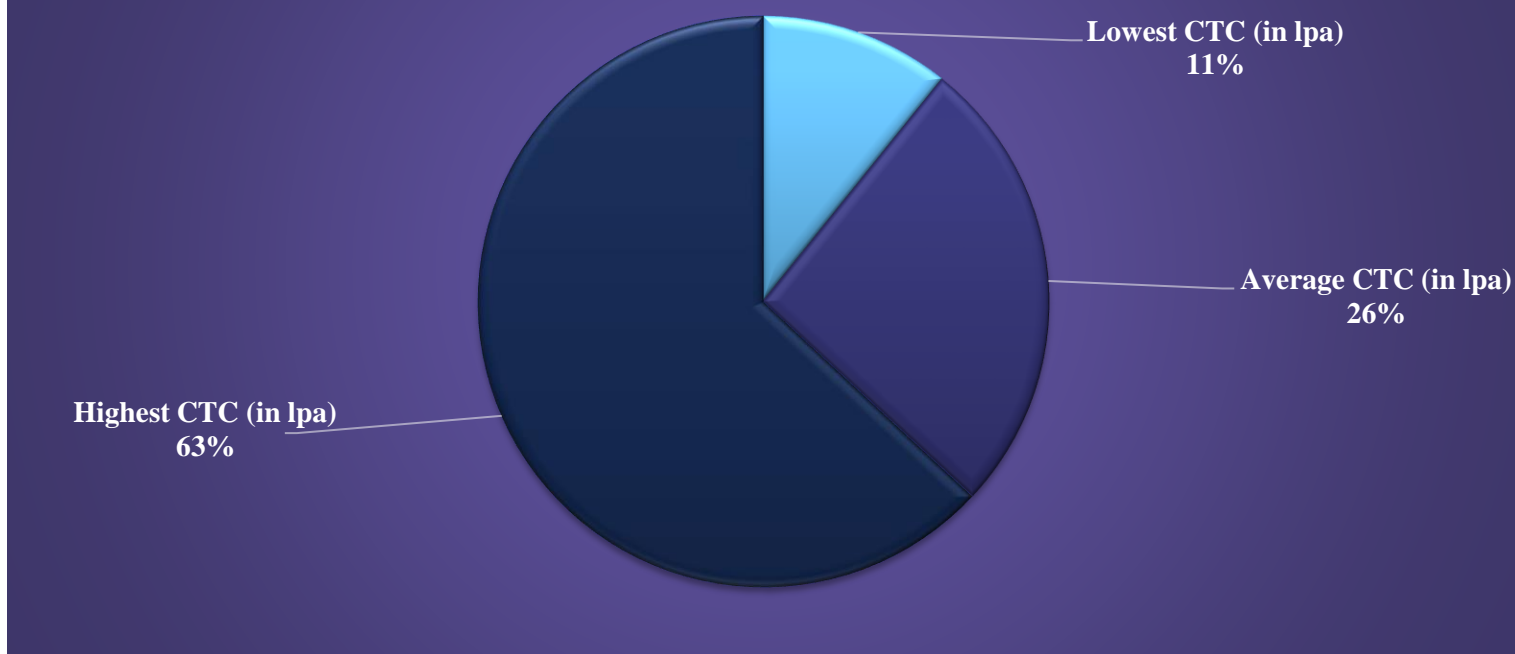
Radhika Jajoo is selected by Google as a Google Developer Student Clubs (GDSC) Lead for SVNIT, Surat from 20th July, 2023.

PLACEMENT RECORD 2022-2023

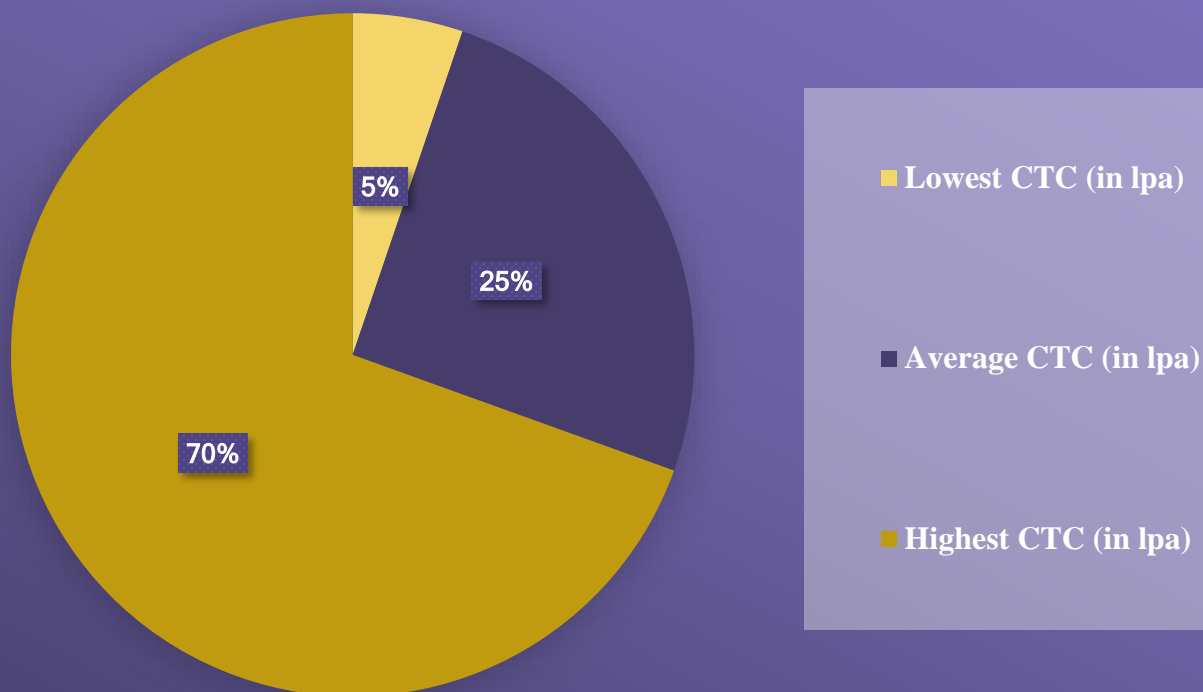
Computer Science & Engineering



Lowest, Average & Highest salary of B.Tech. 2022-23



Lowest, Average & Highest Salary of M.Tech. 2022-23



PhD Students

Dr. Isha Yash Agarwal (D17CO004) has joined Expletus Media Private Limited as Lead AI Researcher.

Dr. Mitali Desai (DS17CO003) has joined C. K. Pitahwala College of Engineering and Technology as Assistant Professor in Department of Computer Engineering.

PhD Completed

Mr. Anshuman S. Patel (D15CO006)

Defended his PhD thesis titled “Analysis and Mitigation of Denial of Service Attacks in 6LoWPAN Based Internet of Things” in February 2023. He worked under the supervision of Prof. Devesh C. Jinwala.



Mr. Himanshu B. Patel (D14CO003)

Defended his PhD thesis titled “Analysis and Mitigation of Blackhole Attacks in 6LoWPAN Based Internet of Things” in April 2023. He worked under the supervision of Prof. Devesh C. Jinwala.



Ms. Mitali Desai (D17CO003)

Defended her PhD thesis titled “A Systematic Approach to Identify and Rank Influential Scholars from Digital Scholarly Platforms” in May 2023. She worked under the supervision of Dr. Rupa G. Mehta and Dr. Dipti P. Rana.



Ms. Isha Yash Agarwal (D17CO004)

Defended her PhD thesis titled “Novel Approaches for Fake News Detection in Healthcare Domain” in May 2023. She worked under the supervision of Dr. Dipti P. Rana.



Mr. Bintu B. Kadhiwala (DS15CO003)

Defended his PhD thesis titled “Privacy-Preserving Approaches for Insider Attack Prevention in Collaborative Social Network Data Publishing Setup” in 2023. He worked under the supervision of Dr. Sankita J. Patel.



Expert Lectures delivered by the faculty

Name of Faculty	Title of Lecture	Place & Date
Prof. Dhiren R Patel	Bitcoin Mining as Energy Storage.	IIT Hyderabad - Blockchain Research group (13 th April, 2023)
Prof. Dhiren R Patel	Bitcoin, Energy consumption and Environment effects	NIT Goa, CSE Department, (31 st March, 2023)
Prof. Devesh C Jinwala	Advanced Persistent Threats & The Machine Learning-Enabled IoT Security: Issues and Challenges	NIT, Patna, (17 th May, 2023)
Prof. Devesh C Jinwala	A Talk on Research Methodology – I & II	Social Media and Social Network Data Mining (SNSMDM 2023) SVNIT, (4 th Jan, 2023)
Prof. Mukesh A. Zaveri	NEP Implementation	Social Media and Social Network Data Mining (SNSMDM 2023) SVNIT, (11 th January, 2023)
Prof. Mukesh A. Zaveri	Machine Learning Fundamentals	Machine Learning and Applications (MLA), NIT Kurukshetra, (22 nd April, 2023)
Prof. Mukesh A. Zaveri	Applications to Video Processing	Machine Learning and Applications (MLA), NIT Kurukshetra, (25 th April, 2023)
Prof. Mukesh A. Zaveri	Introduction to Machine Learning	SERB Sponsored Karyashala Hands-on on Design, Fabrication and Testing of 5G Antenna using Machine Learning organized by Department of Electronics Engineering, SVNIT, Surat (16 th May, 2023)
Prof. Mukesh A. Zaveri	Drone Applications	One Week Faculty Development Programme on BOOT CAMP 2.0 On DRONE APPLICATIONS under training program on capacity building for human resource

		development in Unmanned Aircraft Systems in India Sponsored by MeitY, Govt. of India (26 th June, 2023)
Dr. Dipti P. Rana	Exploring Social Media and Social Network Mining	Social Media and Social Network Data Mining (SNSMDM 2023) SVNIT, Surat (02 nd -13 th January, 2023)
Dr. Dipti P. Rana	Precision Agriculture	Bootcamp 2.0 on Drone Application organized by SVNIT, Surat, (08 th -12 th April, 2023)
Dr. Bhavesh N. Gohil	Information Security at Network and Transport Layers	DEPSTAR, Charusat University, Changa, (28 th March, 2023)
Dr. Bhavesh N. Gohil	Cyber Security Awareness	Social Media and Social Network Data Mining (SNSMDM 2023) SVNIT, Surat (9 th January, 2023)
Dr. Sankita. J. Patel	Ensuring Secure Drone Applications	Bootcamp 2.0 on Drone Application organized by SVNIT, Surat (29 th June, 2023)
Dr. Balu L. Parne	Fundamentals of Information Security.	G H Rasoni Institute of Engineering and Business Management Jalgaon Maharashtra. (4 th February, 2023)
Dr. Balu L. Parne	Boot Camp 2.0 on Drone Applications	SVNIT, Surat from 26 th to 30 th June, 2023.
Dr. Keyur Parmar	Blockchain for Security and Privacy of Internet of Things	Security and Privacy Trends in Internet of Things, NIT Patna, (13 th -17 th May, 2023)

Journal Publications

Himanshu K. Gajera, Deepak Ranjan Nayak, Mukesh A. Zaveri, "A Comprehensive Analysis of Dermoscopy Images for Melanoma Detection via Deep CNN Features", Biomedical Signal Processing and Control, Elsevier, Vol. 79, Part 2, 104186, January 2023.

Dhanani Jenish, Rupa G. Mehta and Dipti P. Rana, "DSPWE: distributed sentiment polarized word embedding for voluminous textual data", Journal of Ambient Intelligence and Humanized Computing (JAIHC), Springer, 2023. <https://doi.org/10.1007/s12652-023-04611-y>

Mitali Desai, Rupa G. Mehta and Dipti P. Rana, "Contextual analysis of scholarly communications to identify the source of disinformation on digital scholarly platforms", Kybernetes, Vol. ahead-of-print No. ahead-of-print, January 2023. <https://doi.org/10.1108/K-07-2022-0998>

Mitali Desai, Rupa G. Mehta, Dipti P. Rana, "A Model to Identify Redundancy and Relevancy in Question-Answer Systems of Digital Scholarly Platforms", International Conference on Machine Learning and Data Engineering, Dehradun, India, 2023, Procedia Computer Science, Volume 218, 2023, Pages 2383-2391, <https://doi.org/10.1016/j.procs.2023.01.213>

Khade, R., Krupa N. Jariwala, & Chattopadhyay, C. (2023). An Interactive Floor Plan Image Retrieval Framework Based on Structural Features. Arabian Journal for Science and Engineering, 1-17.

Kumar, M.J.K., Rana, D. HAUOPM: High Average Utility Occupancy Pattern Mining. Arabian Journal for Science and Engineering Springer, June 2023. <https://doi.org/10.1007/s13369-023-07971-x> (2.807)

Pranita Y. Mahajan, Dipti P. Rana, "Text mining approach for the prediction of disease status from discharge summaries using CCBE and NEROA-CNN", Expert Systems with Applications, Vol. 227, 4 May 2023. <https://doi.org/10.1016/j.eswa.2023.120310>. <https://doi.org/10.1016/j.eswa.2023.120310>.

Pranita Mahajan and Dipti P. Rana, "Feature Optimization in CNN Using MROA for Disease Classification", Intelligent Decision Technologies, IOS Press, Vol. 17 (2), pp. 301 – 315, 1 January 2023. DOI: 10.3233/IDT-220097.

I. Y. Agarwal, Dipti P. Rana, "An Improved Fake News Detection Model by Applying a Recursive Feature Elimination Approach for Credibility Assessment and Uncertainty", Journal of Uncertain Systems, Vol. 16 (01), Article No. 2242008, January 2023. DOI: <https://doi.org/10.1142/S1752890922420089>

Hiral Trivedi and Sankita J. Patel. Key-aggregate searchable encryption with multi-user authorization and keyword untraceability for distributed IoT healthcare systems. Transactions on Emerging Telecommunications Technologies, pages-e4734, January 2023, e4734, Wiley, doi:10.1002/ett.4734

Shivangi Shukla and Sankita J. Patel. A design of provably secure multi-factor ECC-based authentication protocol in multi-server cloud architecture. Cluster Computing. May 2023 29: pp. 1-22, Springer

Prarthana J. Mehta, Balu L. Parne, Sankita J. Patel, "SE-LAKAF: Security Enhanced Lightweight Authentication and Key Agreement Framework for Smart Grid Network" Peer-to-Peer Networking and Applications, Springer, pp.1-23, 2023.

Chandan Trivedi, Udai Pratap Rao, Keyur Parmar, Pronaya Bhattacharya, Sudeep Tanwar, Ravi Sharma, A Transformative Shift Toward Blockchain-based IoT Environments: Consensus, Smart Contracts, and Future Directions, Security & Privacy, Wiley, Volume 6, Issue 2, e308, March 2023.

Keyur Parmar, Shriniwas Patil, Dhruvi Patel, Vrunda Patel, Bhoomi Parikh, Parita Padaria, Privacy-preserving Authentication Scheme for VANETs using Blockchain Technology, *Procedia Computer Science*, Elsevier, 220, 40-47, 2023.

Kumar Sondarva, Bhavesh N. Gohil, "Forensics Analysis of NTFS file system", IGI Global, 2023.

Conference Publications

Sonali B Wankhede, Dhiren R. Patel, "The Proof of Authority Consensus Algorithm for IIoT Security" Book Proceedings of International Conference on Recent Innovations in Computing: ICRIC 2022, Volume 2 Pages 803-811 Publisher Springer Nature Singapore – LNEE Vol 1011 DOI: 10.1007/978-981-99-0601-7_61, Publication date 17 May 2023.

Anuj Raghani, Aditya Ajgaonkar, Dyuman Shukla, Bhavya Sheth, Dhiren R. Patel, "A Novel Approach to Acquire Data for Improving Machine Learning Models Through Smart Contracts", Book Proceedings of International Conference on Recent Innovations in Computing: ICRIC 2022, Volume 2 Pages 755-769 Publisher Springer Nature Singapore – LNEE Vol 1011 DOI: 10.1007/978-981-99-0601-7_58, Publication date 17 May 2023.

Riya Singhal, Meet Soni, Shruti Bhatt, Manav Khorasiya, Devesh C. Jinwala, "Enhancing Robustness of Malware Detection Model Against White Box Adversarial Attacks". ICDCIT 2023: 181-196

Foram N. Shah, Dhaval K. Patel, Kashish D. Shah, Mehul S. Raval, Mukesh A. Zaveri, S. N. Merchant," Novel Crash Prevention Framework for C-V2X using Deep Learning", Proceedings of 15th International Conference on Communication Systems & Networks (COMSNETS 2023), 03-08 January 2023, Bengaluru, India.

Sagar Kavaiya, Dhaval K Patel, Mukesh A. Zaveri, Mehul S Raval, S. N. Merchant, "VeCEn: A Data Acquisition Framework for Heterogeneous Vehicular Networks", Proceedings of 15th International Conference on Communication Systems & Networks (COMSNETS 2023), 03-08 January 2023, Bengaluru, India.

Chawla, J., Bakoliya, R., Jat, J., Jinjala, J., Patel, M., & Krupa N. Jariwala. (2023). Upscaling Profits in Financial Market. In *Artificial Intelligence for Capital Markets* (pp. 41-56). Chapman and Hall/CRC.

Patel, M., Krupa N. Jariwala, & Chattopadhyay, C. Deep Learning techniques for stock market forecasting: Recent trend and challenges, International Conference on Software Engineering and Information Management, Palmerston North, New Zealand, January, 2023

Patel, M., Krupa N. Jariwala, & Chattopadhyay, C. SM2PNet: A Deep Learning Approach Towards Indian Stock Market Movement Prediction, International Conference on Convergence of Technology (I2CT), Pune, India, April, 2023.

Khade, R., Krupa N. Jariwala, Chattopadhyay, C., FLEXNet: Learning Deep Features Using Autoencoders for Floor Plan Image Retrieval, IEEE GCON 2023, Guwahati, India, June, 2023

Aditi S. Kansara, Bhavesh N. Gohil, Nisha Verma, "Task Scheduling in Cloud Computing using Mean Ant Colony Optimization", The 6th International Conference on Information Systems and Computer Networks (ISCON), GLA University, Mathura, IEEE, February 3, 2023.

Aditi S. Kansara, Bhavesh N. Gohil, Nisha Verma, “Load balancing in Cloud Computing Environment using Modified Genetic Algorithm”, The 6th International Conference on Information Systems and Computer Networks (ISCON), GLA University, Mathura, IEEE, February 3, 2023.

Nishtha S., Sejal T., Ankita K., Kokshad N., Aditya D., Bhavesh N. Gohil, “XGBoost-based dynamic ride-sharing model for New York City”, The 6th International Conference on Information Systems and Computer Networks (ISCON), GLA University, Mathura, IEEE, February 3, 2023.

Akhil Chaurasia, Manthan Maheriya, Shubham Kumar, Karan Mashru, Abhi Lunagariya, Alok Kumar and Udai Pratap Rao - “Deep Learning based Automatic Response Generation for Amazon QA Dataset” (ICONIC 2023) LPU, India

Akhil Chaurasia, Priyanka Kamble, Shivesh Kumar, Jay Shah, Shubham Bajaj, Udai Pratap Rao and Alok Kumar - “Twitter Sentiment Analysis using different Machine Learning Techniques” (ICRTC - 2023), SRM, India

Sujoy Roy, Alok Kumar and Udai Pratap Rao - “Security Attacks and its Countermeasures on Smart Grid: A Review” (IC2E3 - 2023), NIT Uttarakhand, India

Akhil Chaurasia, Krina Patel, Jaina Vaishnav, Priyanka Patel, Alok Kumar, Abhilash Mandloi and Udai Pratap Rao - “Blockchain based Secure Energy Trading in V2G infrastructure” (ICCET 2023), NIT Patna, India

Expert Talk Organized

The Department organized the expert talk on the topic **“NEOTERIC FRONTIERS IN CLOUD AND EDGE COMPUTING”** on **April 29 – 2023** by **Prof Rajkumar Buyya**, Director at Cloud Computing and Distributed Systems (CLOUDS) Lab, University of Melbourne, Australia.



EXPERT TALK

ON

NEOTERIC FRONTIERS IN CLOUD, EDGE, AND QUANTUM COMPUTING

PROF. RAJKUMAR BUYYA

Director, Cloud Computing and Distributed Systems (CLOUDS) Lab
The University of Melbourne, Australia

CEO, Manjrasoft Pvt Ltd, Melbourne, Australia



29TH APRIL 2023

11 AM TO 12:30 PM

Venue : Seminar hall, 1st floor, Old DoCSE

Faulty Development Program Organized

8th Apr. – 12th Apr.
2023

SVNIT, Surat has organized Boot Camp 1.0 on "Drone Assembly, Navigation, and Applications" from 8-12 April 2023 in offline mode coordinated by

Dr. Suresh Dahiya
(Asst. Prof., DoECE),
Dr. Dipti P. Rana
(Asst. Prof., DoCSE) &
Dr. Anand Darji
(Asso. Prof., DoECE)

The Boot Camp was aimed to exchange knowledge in the area of Unmanned Aerial Systems – Drone components, their assembly, navigation and various applications with their terminology, algorithms, case studies, and related research issues & challenges. The training programme was inaugurated on 8th April 2023 with the blessings of Dr. Anupam Shukla, the Honorable Director, SVNIT and Dr. M. Chakraborty, Chairperson, CCE, SVNIT.

Boot Camp 1.0

Drone Assembly, Navigation, and Applications



The eminent speakers from various profound institutes like Dr. Mangal Kothari (Prof., IIT, Kanpur), Dr. Suresh Dahiya (SVNIT, Surat), Dr. Anand Darji (SVNIT, Surat), Dr. Dipti Rana (SVNIT, Surat), Dr. Shweta Shah (SVNIT, Surat) and Dr. Raghavendra Pal (SVNIT, Surat) delivered the expert talks and shared their expertise in the field of drone and various applications domains. The real-time assembly of drones and hands-on with drones conducted by Phoenix Aero Club, SVNIT and Hawaii Adda Aerial Innovation Pvt. Ltd., Ghaziabad along with the latest tools and technology. Mr. Janak Patel, Industrialist from National Infotech, Surat, and former Asso. Prof, DoECE, SVNIT shared the industry knowledge in a very interesting way. The training programme was concluded on 12th April 2023 and Head, DoECE appreciated the enthusiasm shown by the participants and encouraged them to attend such programmes. A huge response for registration was received and 32 participants from the various academic institutes from Gujarat.

**26th Jun. – 30th Jun.
2023**

The Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat has organized Training Programme Boot Camp 2.0 on “Drone Applications” from 26-30 June 2023 in offline mode coordinated by

Dr. Dipti P. Rana
(Asst. Prof., DoCSE),
Dr. Suresh Dahiya
(Asst. Prof., DoECE), &
Dr. Anand Darji
(Asso. Prof., DoECE)

under the project “Capacity Building for Human Resource Development in Unmanned Aircraft Systems (Drone and related Technology)”, a project funded by Ministry of Electronics and Information Technology (MeitY), Government of India (GoI).

The Boot Camp was aimed to exchange knowledge in the area of Unmanned Aerial System Applications.

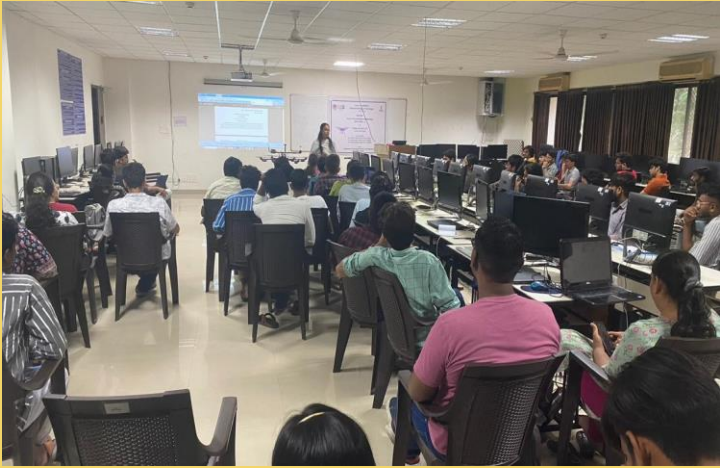
Boot Camp 2.0

Drone Applications



The eminent speakers from various profound institutes like Dr. J. Sathish Kumar (MNNIT, Allahabad), Dr. Saurabh Kumar (LNMIT, Jaipur), Dr. Keyur M. Rana (SCET, Surat), Dr. Mitali Desai (CKPCET, Surat), Dr. Mukesh A. Zaveri (SVNIT, Surat) and Dr. Sankita J. Patel (SVNIT, Surat), Dr. B. L. Parne (SVNIT, Surat), Dr. Dipti Rana (SVNIT, Surat), Dr. Suresh Dahiya (SVNIT, Surat) and Dr. Anand Darji (SVNIT, Surat), delivered the expert talks and shared their expertise in the field of drone and various applications domains. The real-time assembly of drones and hands-on with drones conducted by Phoenix Aero Club, SVNIT with the latest tools and technology. Dr. Pranav Lad, Industrialist from Mathworks, Pune shared the industry knowledge to build up drone applications using the industrial software Matlab. Dr. Pawan Kumar, Town and Country Planning Organization, Ministry of Housing and Urban Affairs, GoI, New Delhi has introduced how drone technology is utilized in Tier-II Cities and encouraged the students to take up various real-life applications related to smart cities.

The training programme was concluded on 30th June 2023 and Head, DoCSE appreciated the enthusiasm shown by the participants and encouraged them to attend such programmes. A huge response for registration was received and 60 participants from various institutes.



Participants interacted with renowned academicians and industry persons for their future endeavors. Further, the participants identify stepping stones for their research. Also, the participants appreciated the overall organization of the training programme and showed their interest to attend such programs at SVNIT in the future.

The organizing committee is thankful to Meity, Government of India to provide the opportunity to conduct this boot camp 2.0. We are thankful to all the experts for their valuable time and knowledge sharing along with the participants for live and interactive involvement.



**TRAINING PROGRAMME
BOOT CAMP 2.0
on
"DRONE APPLICATIONS"
(JUNE 26-30, 2023)**



**Department of Computer Science and Engineering
SVNIT, Surat**



Research Project



Research Project titled:

Capacity Building for Human Resource Development in Unmanned Aircraft System (Drone and Related Technology)

HRD Division, MeitY, to be implemented jointly by the Programme Management Unit (PMU)

Co-Ordinator's:

Dr. A. D. Darji, DoEC, Dr. D. P. Rana, DoCSE, Dr. S. Dahiya, DoEC.

Total Budget of project is Rs. 89.87 Crore where Share of SVNIT: Approx. 2 Crores

Approval Date: 9th Sept. 2022

Duration: 5 Years

Research Project titled:

Drone Multi Modal Video and Quantitative (VQ) Data Warehouse Management for Precision Farming”

as a part of Research project “Capacity Building for Human Resource Development in Unmanned Aircraft System (Drone and Related Technology)

Total Budget of project is 2.5 lakhs

Investigator:

Dr. Dipti P. Rana, DoCSE

Approval Date: July 2023

Duration: 1 Year

ACM Student Chapter Activities

ACM NIT SURAT is one among the many student chapters of ACM across the globe in various institutions. It is identified in the institute as the primary chapter pertaining to Computer Science and through the regular conduction of coding contests, hackathons, workshops, technical quizzes and alumni connect seminars. The ACM Student Chapter is coordinated by **Dr. Dipti Rana, Dr. Keyur Parmar and Dr. Alok Kumar**. The following events conducted during the review period:

DOTSLASH 6.0



DotSlash is SVNIT's own flagship hackathon. It is the most awaited technical event of the year, especially for budding developers. Participants use their innovative skills to make projects with real world applications. This event is conducted offline for the most authentic development experience on 18-19 Feb 2023 at SVB Guest House with 1000+ participation. DotSlash is a pan India event where students from universities all over the country are invited to participate and compete.

Hack The Tank '23



India's First Shark Tank themed, Offline Hackathon organized by Google Developer Students Club (GDSC), S. V. National Institute of Technology (SVNIT), Surat at the Department of Computer Science and Engineering (DoCSE) during 25th – 26th March 2023. Over 500 registrations were received, and the top 40 teams from across India were selected.

Epiphany 12.1

Another twice a year contest to practice your coding skills. Competitive programming contest (2-3 hours) conducted on 23rd January 2023 in online mode. 246 Participants took parts from all over the world. The winners awarded with prize money.

Patent Granted / Filed

Rupa G. Mehta, Neha Kapadia, Patent Filed for “Automated IoT Based Smart Waste Management System” on 01/02/2023.



**Department of Computer Science and Engineering
Sardar Vallabhbhai National Institute of Technology
Ichchhanath, Surat – 395007**

Newsletter Design Committee: Dr. Sankita J. Patel, Karishma A. Patel