Shri Shamrao Patil (Yadravkar) Educational & Charitable Trust's

SHARAD INSTITUTE OF TECHNOLOGY, COLLEGE OF ENGINEERING

Yadrav (Ichalkaranji), Dist.-Kolhapur (Maharashtra)

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INSIGHT

A Newsletter

Department of Automation and Robotics

VOL: 01 ISSUE: 02

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❖ EDITOR MESSAGE

From Faculty Editor Desk

Yogesh Kamble
Assistant Professor
Dept of Automation and Robotics

Dear Readers,

It is indeed a great honor to be the "INSIGHT" Newsletter Editor from Department of Mechatronics Engineering, SITCOE. And it is an immense pleasure to presenting you with the Volume 1 Issue 2 of AY 2022-23.

Our motto is to put forth two Issues of Newsletter in a year. A huge thank you to all for the efforts taken by the department faculty, our students who contributed in this " INSIGHT " Newsletter, without which there wouldn't have been this newsletter issue. Last but not least, I would like to thank Beloved Hon. Executive Director, The Principal, Head of the Department and Faculty members for their everlasting support throughout the creation of this edition.

From Student Editor Desk

Yashvardhan Arihant Shirgave

❖ Dear Readers,

We are happy to bring out the Volume 1, Issue 1 of our News Letter "INSIGHT". Our Faculty diligently involved in encouraging students and preparing for a bright future.

I am glad that I am part of this News Letter preparation and release. I am very much thankful to our Department Faculty members and my team members for helping me in making this" INSIGHT " News Letter of AY 2022-23

From Executive Director Desk:

I am happy and glad that Sharad Institute of Technology College of Engineering. Department of Automation and Robotics Engineering is releasing out "INSIGHT " Newsletter Volume 1 Issue-1.Bringing out a department "INSIGHT" Newsletter will definitely help to showcase the activities like Autodesk, Technical events, Industrial Visits, Expert talk etc., that are happening in the department campus. It also helps in building up teamwork which is very much needed today in the world of competition. It provides a platform for exposing the merits and academic achievements of the faculty and students. This enhances the documentation culture of the institute. This newsletter includes highlights of Automation and Robotics engineering department with perspective of technical event achievements, faculty achievements, professional society events and activities, etc. I hope that this culture of releasing Newsletter continue forever and become a quoted example for all other colleges to follow.

From Principal Desk

I am extremely delighted to know that faculties and students of Automation and Robotics Engineering Department of Sharad Institute of Technology College of Engineering, bringing out their departmental "INSIGHT" Volume 1 Issue-1 newsletter. This will benefit all the students as they can now be aspired for greater heights by knowing about their Department's achievements. Students and faculties have exhibited a great zeal and enthusiasm and have contributed significantly in various technical activities. The editorial team has initiated something that will continue to help and guide present and upcoming students of the Department. Personally, I feel that students of Sharad Institute of Technology College of Engineering should set standards and create environment so that they excel in their areas of interests and accordingly guide more and more SITCOE ians in future.

From Head of the Department Desk:

I feel happy to introduce fourth issue of "INSIGHT" 2022-23 Issue-1 prepared by faculty and students of Automation and Robotics Department. Our Automation and Robotics Engineering department has been consistently working towards the goal to produce highly skilled and scientifically oriented manpower through flexible, adaptive and progressive training programs along with cohesive interaction with the research organizations, academicians and industries. "INSIGHT" provides good platform for student to update their technical skills. I congratulate ""INSIGHT" team for their efforts in launching second issue of year 2022-23. Wish you all a happy learning here.

Vision Mission and PEOs of the department

VISION

To be a centre of excellence in Automation and Robotics education to prepare professionally competent engineers with lifelong learning attitude for the accomplishment of ever-growing needs of society.

MISSION

- To prepare technically and professionally competent engineers by imparting quality education through effective teaching learning methodologies and providing stimulating environment for research and innovation.
- To develop professional skills and right attitude in students that will help them to succeed and progress in their personal and professional career.
- To imbibe moral and ethical values in students with concern to society and environment.

Program Educational Objectives (PEOs)

Graduates of the programme will

PEO I : Equip young minds to as proficient engineers with strong foundation fundamental in Automation and Robotics with application of mathematics ,science and engineering fundamentals

PEO II: Develop ability to Design, Develop and programme a robot for variety of engineering and multidisciplinary application using state of art tools and technologies

PEO III: Make the graduates to understand the need to engage in life long learning ethically so as to appreciate to current issues and develop solutions for cognizant problem for betterment of society

Industrial Interaction

A conducted industrial visit is a planned excursion to a particular company or industrial facility, typically organized for educational or professional purposes. During such visits, participants are guided through the facility to gain firsthand insights into the company's operations, technology, processes, and products. The visit may include interactions with company personnel, presentations, and opportunities to ask questions. Conducted industrial visits offer valuable learning experiences, helping participants understand real-world industrial practices and fostering a deeper appreciation for various industries and their contributions to the economy. These visits are commonly organized by educational institutions, businesses, or industry associations to enhance knowledge, skills, and networking opportunities for students, professionals, or interested individuals.

Industry interaction refers to the collaboration and engagement between businesses or organizations within a particular industry or across different industries. This interaction can take various forms and can be essential for the growth, development, and innovation within the industry. Here are some key aspects of industry interaction:

1. Networking: Industry interaction often involves networking events, conferences, trade shows, and seminars where professionals from different companies and sectors come together to share knowledge, ideas, and experiences. These events provide opportunities for building relationships and partnerships.

2. Collaboration: Businesses within an industry may collaborate on projects, research, or initiatives to address common challenges or capitalize on new opportunities. Collaborative efforts can lead to innovation and the development of new products or services.

3. Information Sharing: Industry interaction facilitates the exchange of information, best practices, and market intelligence. This sharing of knowledge helps businesses stay informed about industry trends, regulatory changes, and emerging technologies.

4. Standards and Regulations: Industries often work together to establish industry standards and regulations. These standards ensure consistency, safety, and quality across products and services, benefiting both businesses and consumers.

Effective industry interaction can lead to a more vibrant and competitive business environment, benefiting both individual companies and the industry as a whole. It fosters innovation, enhances efficiency, and helps businesses adapt to changing market conditions.

In conclusion, industrial visits are invaluable educational and professional experiences that bridge the gap between theoretical knowledge and practical application. These visits provide participants with real-world insights into various industries, fostering a deeper understanding of

industry practices, technologies, and trends. They offer numerous advantages, including enhanced learning, exposure to industry professionals, networking opportunities, and career insights. Industrial visits empower students, professionals, and individuals with the knowledge and motivation to excel in their chosen fields. Overall, industrial visits play a vital role in education, skill development, and career growth, making them a valuable component of learning and professional development programs.

Sr. No.	NAME OF THE COMPANY	Class	No. of Students
1	Siddhi Technozen,Kolhapur	23.2.2023	S.Y
2	Innovista Automation,Shiroli	23.2.2023	S.Y
3	Swabhimani Milk Dairy,Dugaon	11.3.2023	S.Y
4	Bakare Engineers,Kolhapur	25.04.2023	S.Y
5	Sharad Sakhar Kharkhana ,Narande	20.05.2023	S.Y.

Glimpses of Industrial Visit

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. **Visit at Innovista Automation,Shiroli**

Visit at Sharad Sakhar Kharkhana ,Narande

Visit at Innovista Automation,Shiroli

Visit at Swabhimani Milk Dairy,Dugaon

Visit at Siddhi Technozen,Kolhapur

Expert Talk

Sr. No.	Title of Expert Lecture	Class	Expert Lecture conducted Date	Name of Expert Resource person	Designation	Company /Institute	Time
1	Data Science in Digital Marketing	SY	12/03/2023	Mr.Tushar Patil,	Marketing Manager,	Vijomi Digital Technology, Kolhapur.	10.00 a.m to 11.30 p.m
2	Gear Manufacturing & its Application	SY	25/04/2023	Mr. Prasanna Chougule	Quality Head	Saroj Precision Components, Kagal	10.00 a.m to 11.30 p.m
3	Robotics and its future scope	SY	20/05/23	Mr. Chetan Hogade	Owner,	Technowave Electronics, Ichalkaranji	12.30 a.m to2.00 p.m `

In summary, the expert talk emphasized the importance of a strong foundation in engineering fundamentals, practical experience, soft skills, ethics, and continuous learning. It provided valuable insights to help engineering students prepare for a successful and fulfilling career in the field.

Practical experience through internships, projects, and laboratory work was highlighted. Engaging in hands-on learning opportunities helps bridge the gap between theory and practice, making students more employable.

Communication, teamwork, problem-solving, and adaptability are essential soft skills for engineers. Developing these skills is crucial for success in the workplace and collaboration with diverse teams.

Sharad Institute of Technology
College of Engineering, Yadrav.
Farewell Function

Project Based Learning

The institute has taken the wide-ranging decision to implement the concept of Project Based Learning(PBL).With this approach students actively explore real-world problems and challenges and acquire a deeper knowledge. Under this initiative, various value added programs and activities are conducted by department. The details are as follows.

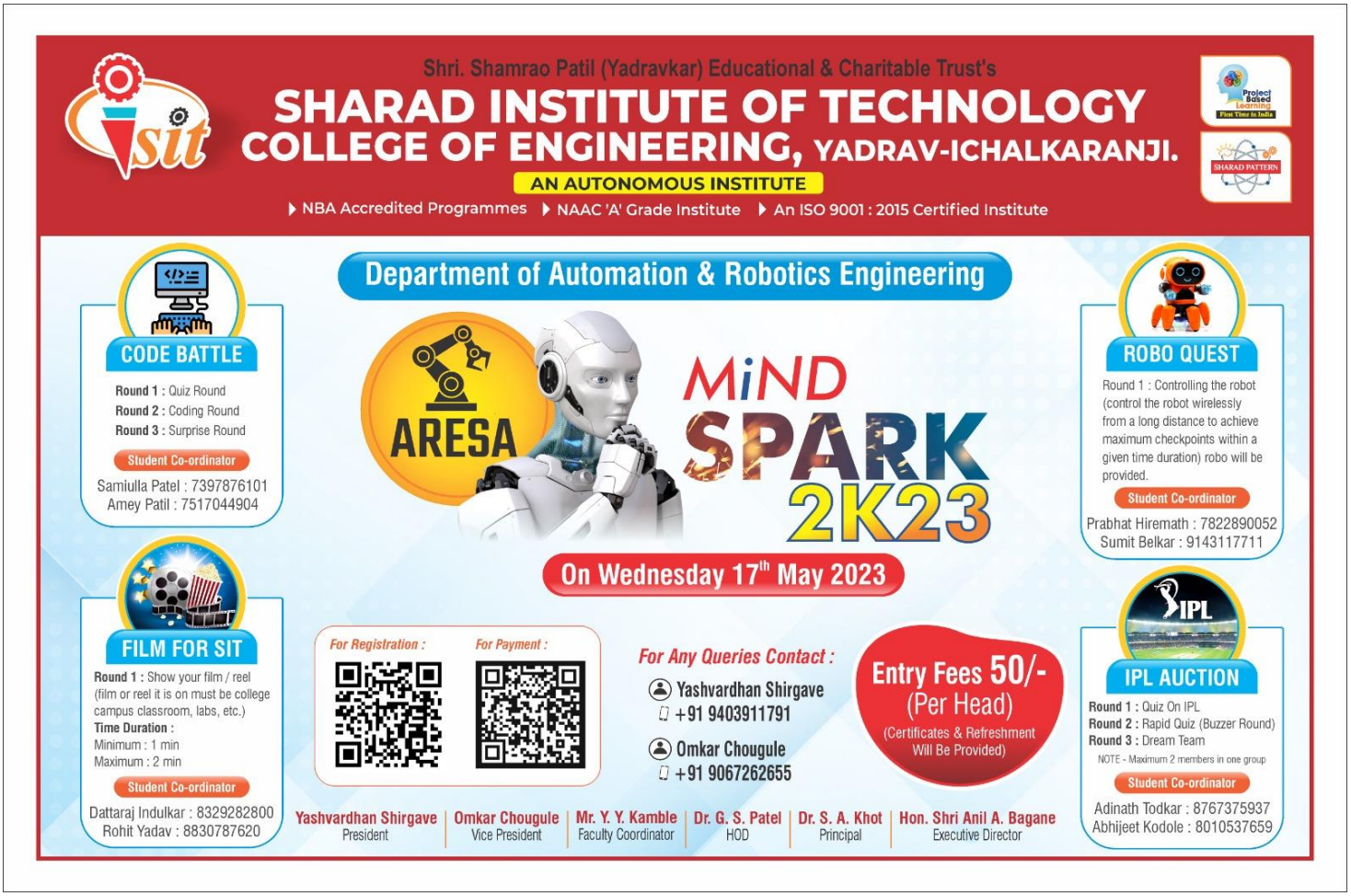
Mini Project Exhibition.

A mini project exhibition serves as a culmination of students' or professionals' hard work and dedication in applying their knowledge and skills to real-world challenges. It provides a platform for showcasing creativity, innovation, and problem-solving abilities. Such exhibitions not only offer participants an opportunity to display their achievements but also contribute to their personal and professional growth.The exhibition encourages the exchange of ideas and fosters collaboration among peers, mentors, and industry professionals. It promotes learning through practical experience, reinforces theoretical knowledge, and hones essential skills like communication, teamwork, and project management. Moreover, mini project exhibitions often inspire a sense of accomplishment and confidence in participants, motivating them to pursue further challenges and opportunities in their academic or professional journey. These events also allow educators and institutions to assess the effectiveness of their teaching methods and curriculum, ensuring alignment with industry needs.

In essence, a mini project exhibition is a celebration of learning, innovation, and the pursuit of excellence. It highlights the importance of hands-on experience and the transformative power of education and practical application. Such exhibitions play a pivotal role in preparing individuals for success in their chosen fields and in contributing to the progress of society as a whole.

ARESA EVENT1

The events arranged by ARESA student associations are essential components of the educational experience, providing students with opportunities to learn, grow, and connect. These events go beyond academic curriculum, offering valuable practical skills, networking, and personal development. Students benefit from exposure to diverse perspectives, hands-on experiences, and leadership roles within these events. Furthermore, these activities contribute to a vibrant campus culture and help students prepare for future academic and professional challenges. Student association-organized events play a crucial role in enhancing the overall educational journey and enriching the lives of those involved.



Event 1 -CODE BATTLE

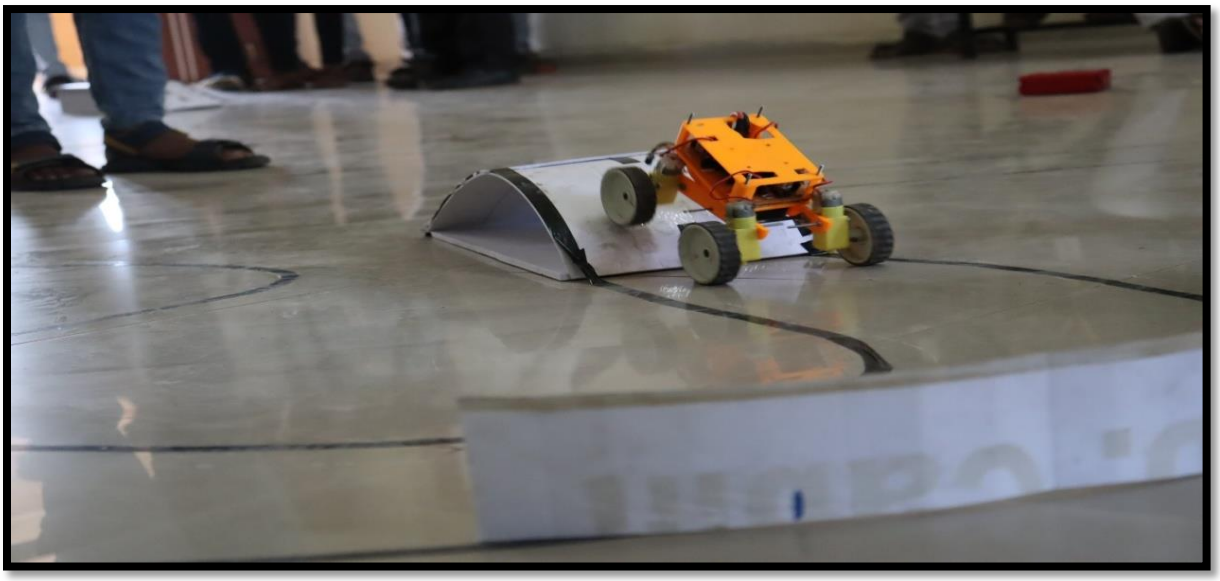
Code Battle is more than just a coding competition; it's an opportunity for participants to showcase their coding prowess, problem-solving abilities, and creativity. These events foster a sense of camaraderie and community among coders, whether they are students, professionals, or coding enthusiasts. A well-organized Code Battle can serve various purposes, such as skill development, recruitment, innovation, or simply promoting the joy of coding.

The success of a Code Battle depends on meticulous planning, clear objectives, and a supportive organizational structure. It encourages participants to push their boundaries, learn from their peers, and collaborate under the pressure of time constraints and challenging coding problems. It also offers a platform for industry professionals and organizations to identify and engage with top talent…

In the ever-evolving world of technology, Code Battles play a crucial role in keeping coding skills sharp and relevant. They inspire continuous learning, foster healthy competition, and provide a stage for coding enthusiasts to shine. Whether conducted in person or virtually, these events are a testament to the power of coding to solve complex problems and drive innovation.

Event 2 - ROBO QUEST

Robo Hurdles competitions are engaging and educational platforms that foster skill development, problem-solving, teamwork, and innovation within the robotics and technology fields. These events have a lasting impact on participants by preparing them for the challenges and opportunities that await in the rapidly evolving world of robotics and automation.



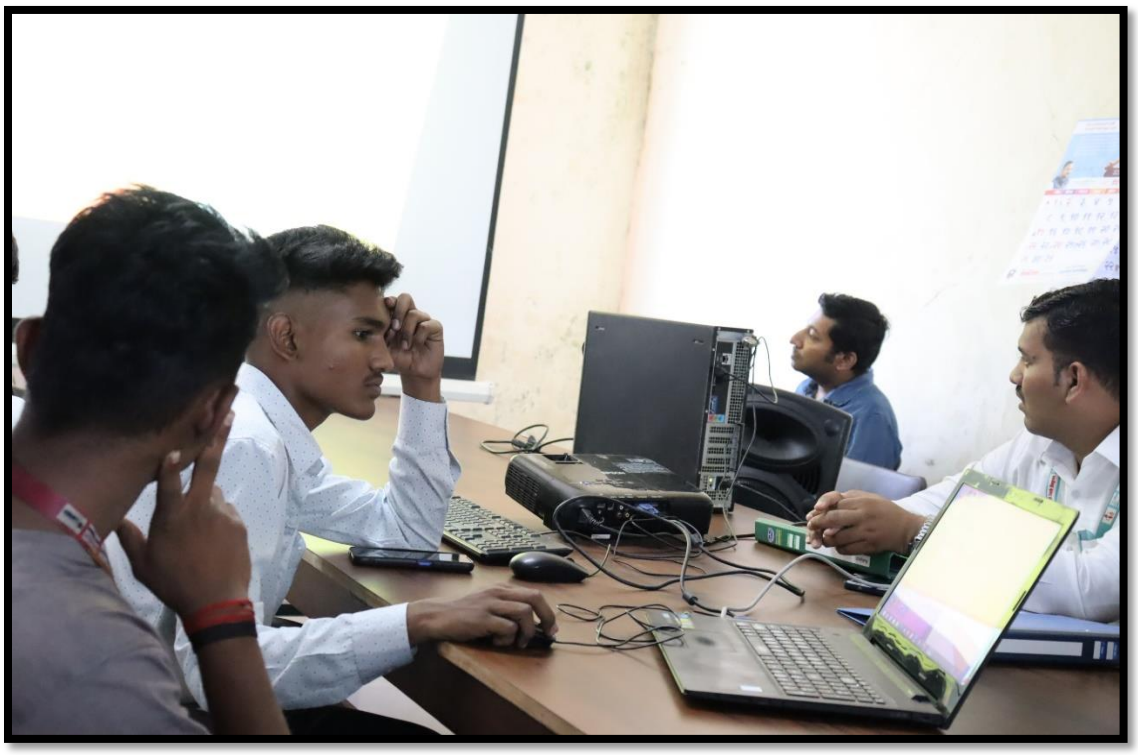
Event 3-IPL AUCTION

The IPL auction is a dynamic and strategic event that transcends the boundaries of cricket. It showcases the sport's global reach, influences player careers and contracts, and serves as a major source of entertainment and economic activity. The IPL auction is a testament to the power of sports to unite people, create opportunities, and provide a thrilling spectacle for fans around the world.

The IPL auction puts a spotlight on cricket talent from around the world, allowing lesser-known players to gain recognition and potentially launch their careers onto a global stage.

The IPL auction generates immense excitement among cricket fans. It sparks debates, discussions, and anticipation for the upcoming season, creating a sense of community and engagement.

Event 4 –Film Making



film making events are not just about creating movies; they are about fostering creativity, promoting technical excellence, facilitating collaboration, and sharing compelling stories. These events serve as platforms for filmmakers to showcase their talent and contribute to the rich tapestry of global cinema. They inspire new generations of filmmakers, elevate the art of storytelling, and continue to shape the way we perceive and engage with the world through the lens of a camera.

EVENT Details

1. **CODE BATTLE:** The Code battle event was organized to enhance the coding skills of the students. It consisted of three rounds

   Round 1: Quiz round: Basic MCQ questions on C programming.
   Round 2: Coding round: Problem statement to execute and generate output
   Round 3: Surprise round**:** Problem statement to execute and generate output within time limit.
   .

WINNERS:
1st: Almusavveer Abdul Jamadar
2nd: Aman Patvegar
3rd: Toufik Usman Badkar

2. **FILM FOR SIT:** This event was organized to showcase the video making and editing skills of students.
   Video duration : Max 1 minute
   Min 2 minutes
   WINNERS:
   1st: Aditya Bargale
   2nd: Aryan Wagh
   3rd: DattarajIndulkar
   Shirish Pramod Awalkar
3. **ROBO QUEST:** It was basically a robo race but the robot was made to control by distance as it was wireless.
   Controlling the robot wirelessly from a long distance to achieve maximum checkpoints within given time duration.

   WINNERS:
   1st: Aniket Patil
   2nd: SuparshwaDanwade
   3rd: Sourabh Bhosale

4. **IPL AUCTION:** It was a non-technical event based on IPL. It consisted of three rounds:
   Round 1: Quiz on IPL
   Round 2: Rapid Quiz round (Buzzer round)
   Round 3: Dream Team

   WINNERS:
   1st: Akash Patil and Ajinkya Kadam
   2nd: Sukanya Chougule and Anushka Patil
   3rd: Sanskruti Pujari and Simran Kamble

TECHNICAL EVENT –INNOVATION 2K23 Arranged by Institute level

Engineering is a constantly evolving field. Technical activities often expose students to cutting-edge technologies and trends, keeping them updated on the latest developments.

The college-level technical activities enrich the educational experience, preparing students not only to excel in their engineering careers but also to contribute meaningfully to society through their technical knowledge and problem-solving abilities. These activities are instrumental in shaping well-rounded, skilled, and future-ready engineers.

The college-level technical activities play a crucial role in the holistic development of engineering students. These activities go beyond classroom education and textbooks, offering students the opportunity to apply their theoretical knowledge to real-world situations. They serve as a bridge between academia and industry, fostering skills, experiences, and values that are essential for future engineers. Top of Form

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Parent Meet

Parent –teacher interaction is wonderful opportunity for us to extend lines of communication between home and college, keep parents informed about their ward's progress both academic and social and for developing co-operative strategies that can ultimately t to every student. The Parents meet was conducted for academic year 2022-23 .

DAAB,BOS Meeting

For improvement in quality of the curriculum as well as the quality of students, Department Accreditation Advisory Board (DAAB) and Board of Studies (BOS) is conducted in every semester. The Department Accreditation Advisory Board consists of expert from industry, experienced academician from different colleges and the faculty of the department.

Faculty Achievements

1.Dr. G. S. Patel :

1 Published book entiled “Machine Learning, Deep Learning, Big Data and Internet of Things for Healthcare "on CRC Press Taylor and Francis Group

2. Govind Singh Patel published paper entiled “Study of End to End Image Processing System including Image De-noising, Image Compression & Image Security," International Journal of Wireless Personal Communication, Springer, 121, 209–220 (2021)., Nov. 2021 (SCI Indexed by Thomson Reuters; Impact Factor: 1.061).

3. Govind Singh Patel published paper entiled “Analysis of improved ez-pass router design and its FPGA implementation”, Journal of Harbin Institute of Technology, Vol. 53 Issue. 11 Pp. 17-28, Dec 2021(SCOPUS).

4. Govind Singh Patel published paper entiled “Development of improved speed AES based on key dependent intra-round operations”, Journal of Theoretical and Applied Information Technology. 99(13), ISSN No. 1992-8645, pp 3231- 3241, 2021. (SCOPUS).

4. Govind Singh Patel published paper entiled , “Design Of Power, Area and Delay Optimized Direct Digital Synthesizer Using Modified 32-Bit Square Root Carry Select Adder”, Journal of Circuits, Systems and Computers, World Scientific Publication(SCI Indexed by Thomson Reuters; Impact Factor: 1.33), Nov 2022.

2.Mr. A. A. Desai

1. Published a paper entitled “Design , Analysis and Development of Additive Manufacturing by using FDM Technique with Dual Nozzle” 2022
2. Participated as Mentor for Smart India Hackthon 2022 which is organised by MHRD and AICTE, New Delhi
3. Winner team Mentor for Smart India Hackthon 2020 which is organised by MHRD and AICTE, New Delhi
4. Participated and exhibited Conference of Autodesk University India & SAARC 2019 in projects on dated 5th and 6th September 2019 at Bangalore.

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