The Department of CSE started celebrating Color Day on every Friday and it started with color yellow which represent intellect, positively, confident and happiness "Yellow is the color of the mind and the intellect" All the students were asked to dressed up in different shades and hues of yellow [07/02/2020].

Vision

To motivate and mould students into world class Computer Science and Engineering professionals who will excel in their field and effectively meet challenges of the dynamic global scenario.

Mission

To achieve academic excellence in providing technical education by incorporating the principles of total quality management (TQM)

To provide state of art infrastructure for enhanced learning and research with IT based knowledge management to meet global challenges

To inculcate ethical , moral and cultural values among Computer Science and Engineering professionals

TRIBUTE TO PULWAMA MARTYRS

Our flag does not fly because the wind moves it, it flies with the last breath of each soldier who died protecting it.

Mourning the lives lost in the Pulwama terror attack, CSE Department on 14 Feb 2020 paid a tribute to each of the 40 soldiers who were killed.

A special assembly saw Director Dr Manish Manoria leading the event, in which teachers, staff members and students extended solidarity to the bereaved families

A Message from the Department Chair

Established in 2003 as the Department of Computer Science & Engineering, we have an excellent & rich history and an outstanding record of contributions to the profession and community. The Department is well recognized for excellence in facilities and teaching.

At Present, the Department offers B.Tech. in Computer Science & Engineering and M. Tech. in Computer Science & Engineering.

The aim of these programmes is to enable students to acquire specialized knowledge for various subjects in computer science, as well as to enrich the students personal, social and cognitive development to meet challenges of today and tomorrow. The Department is well equipped with high end computers, latest software & state-of-the-art IT infrastructure and all these computing resources are inter-connected with high speed intranet. Our students are exposed to up-to-date curriculum, technology and techniques. The Department has well experienced & dedicated faculty members with different specializations. Our faculty is involved in cutting-edge research areas, including Machine learning, Data Science, Cloud Computing, computer networks and artificial intelligence. The Department prides itself on good career opportunities for students. Our students graduate with more than 100% placement through campus. Many companies of repute show their interest to visit our Institute for campus recruitment.

Yours,

Dr Rajesh K Shukla
Professor & Head

2ND IEEE INTERNATIONAL CONFERENCE (IDEA 2K20)

The 2nd IEEE international conference on Data Engineering and Applications (IDEA2K20) was successfully jointly organized by SIRT Bhopal and SOIT RGPV Bhopal on 28-29 Feb 2020. 86 papers were selected for presentation out of 298 received from different institutions of India and abroad. This is the 3rd conference in a row jointly organized with RGPV after Springer SCI2K19 on 08-09 March 2019 and Springer IDEA2K17 on 28-29 Oct 2017, Proceeding of IDEA2K17 and SCI2K19 are published by Springer.

The Conference was inaugurated by our beloved Vice Chairman Dr Prashant Jain Sir.

Dr Rajesh k Shukla was the Program Chair of IDEA2k20 and he also chaired one session during the conference.

FACULTY ACCOLADES

Dr Rajesh k Shukla was the Program Chair of IDEA2k20 and he also chaired one Conference Session.

Dr Deepshikha Patel Reviewed an article titled "Comprehensive Study using Supervised Learning Algorithms: Predictions of Yelp Reviews Ratings," for Engineering, Technology & Applied Science Research [ETASR]

Prof. Arun Japhate, Dr. Deepshikha Patel, Dr Vasima Khan, Prof Ruchi Thakur, Prof Anjana Nigam reviewed research papers for IDEA 2K20 Conference.

Dr. Deepshikha Patel has been appointed as an **Advisory Board Member** of International Journal of Electronics ommunication and Computer Engineering (IJECCE) Online ISSN:2249-071 XISSN (Online): 2249-071

Dr. Vasima Khan, Swati Yadav, Tariq Azfar Meenai and Dr. Manish Manoriya presented a paper titled Influence Based Community Detection Over Social Media.

Anjana Nigam presented a paper titled Quantum Deep Learning For Phoniatrics Biomarker Based Disease Detection.

Arun Kumar Jhapate and Monika Jhapate presented a paper titled Unusual Crowd Activity Detection using OpenCV and Motion Influence Map.

Dr. Deepshikha Patel, Dr. Vasima Khan, Dr Rajesh Shukla and Monika Kherajani presented a paper titled A Customized Children Friendly and Secure Search Engine.

Prachi Sharma, Noopur Samaiya, Monika Kherajani and Dr.Rajesh K Shukla presented a paper titled WEB USAGE MINING-A Study of Web data pattern detecting methodologies and its applications in Data Mining.

Mayank Namdev presented a paper titled Routing and Optimization Schemes in Flying Ad Hoc network.

Prof Mahit Singh Tomar won **Man of the Match** and **Man of the Series** prize in first SAGE Premier League organized on 01 March 2020 at SAGE Bhopal

[WORKSHOP/FDP]

Prof. Arun Jhapate attended two days STTP on Python Programming held at NRI Information of Information Science and Technology Bhopal on 17-18 Feb 2020

Dr Rajesh K Shukla, Dr Deepshikha Patel, Prof Ruchi Thakur, Prof. Anjana Nigam attended One Week Faculty Development Program (2-7 March 2020) on "Internet of Things & Machine Learning" organized by Department of Computer Science & Engineering, Radharaman Engineering College, Bhopal under TEQIP-III.

[PAPER PRESENTATION]

Arun Kumar Jhapate, Ruchi Thakur presented a paper titled A Study on DeLC Hybrid Model for Improvement of Classification Technique on Sentiment Analysis

Prachi Sharma, Monika Kherajani, Deepak Jain and Dr. Deepshikha Patel presented a paper titled A Study of Routing Protocols, Security Issues and Attacks in Network Layer of Internet of Things Framework.

Ankur Pandey presented a paper titled Cuttlefish Optimization based Clustering Approach (COCA) to improve the Quality of Service (QoS) for Flying Ad-Hoc Network (FANET)

Prof Ankur Pandey , Mohit Tomar, and Deepak Jain attended international conference held at LNCT Bhopal

Deepak Jain and Prachi Sharma presented a paper titled A Study of the Impact of Programming Language Selection on CO2 emission – A Green IT Initiative.

Dr. Vasima Khan, Dr. Deepshikha Patel, Tariq Azfar Meenai presented a paper titled Application of deep learning techniques for automating the detection of diabetic retinopathy in retinal fundus photographs.

Dr Vasima Khan presented a paper titled "Machine Learning Algorithms in WSN: A review article" ij International Conference on Mathematical Modeling and High Performance Computing in Science and Technology held at LNCT Bhopal

[PICNIC]

CSE Fourth semester students visited Raisen fort along with their TGs for Picnic [28 Feb 2020]

[SOCIAL OUTREACH]

Under the social outreach program, faculties along with students of final year visited a primary school in Berkhedi Village. Students have taught primary school kids about the benefits of computer to empower them. Apart from this they have played games with school kids and make them aware of cleanliness.

Industrial visit to Appin Technologies was organized for 4th Semester students

Prof Noopur Samaiya along with 13 students SIRT ACM STUDENT CHAPTER have participated under the leadership of Prof Noopur Samaiya in IRISS and ACM ANNUAL EVENT conducted by IIT GANDHINAGAR from 13 Feb to 15 Feb 2020

[EXPERT TALK]

Students of CSE Sixth Semester have participated in two days event "IMPRENDITORE 3.0" at UIT, RGPV, Bhopal and attended workshops and also appeared in various companies interview. Some of them also got offer letters.

[EXPERT TALK]

EXPERT TALK ON AWS (AMAZON WEB SERVICES)

An Expert Talk was organized under SIRT ACM student chapter on by the Department of Computer Science and Engierring of SIRT Bhopal

More than 100 students participated in the talk and got benefitted. [24 Feb 2020]

[PROGRAM OUTCOMES]

Engineering Graduates will be able to:

PO1: **Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: 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.

PO3: **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.

PO4: 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.

PO5: 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.

PO6: 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.

PO7: 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.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: **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.

PO11: **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 environments.

PO12: **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 EDUCATIONAL OUTCOME]

PEO1: Graduates shall have fundamental and advanced knowledge in mathematics, science, Computer Engineering and inter disciplinary engineering to emerge as technocrats.

PEO2: Graduates shall have capabilities to develop software, understand the technical specification, design and provide innovative solutions for society by diligence, team work and lifelong learning.

PEO3: Graduate shall have good communication skill, leadership skill, professional and ethical values.

PEO4: To equip graduates with the ability to get employed in industries or pursue higher studies or turn as researchers or entrepreneurs.

[PROGRAM SPECIFIC OUTCOME]

PSO1: Demonstrate understanding of the principles and working of the hardware and software aspects of computer systems.

PSO2: Ability to understand the structure and development methodologies of software systems. Possess professional skills and knowledge of software design process. Familiarity and practical competence with a broad range of programming language and open source platforms.

PSO3: Ability to work in team and apply the knowledge acquired to develop new real life systems and able to adapt to societal needs of future.

[CAREER GUIDANCE]

Mayank kumar of final year CSE interacted with 2nd year students of CSE and guided them for campus preparation. Mayank kumar is selected in Accenture, Hexaware, Capegemini, Emphasis and appeared in last round for IBM whose Result is awaited.

[SUCCESS MYNTRA]

Sujay Agrawal
2015 Batch

SIRT CSE 2015 passout --> Mphasis (2015) --> Capgemini (2018) --> Infosys (2020). Working as java developer in IT industry from past 4 years. In this time span got to play roles of team lead, interviewer & mentor. All you need is perseverance & can do attitude in this field. Special thanks to Rajesh Shukla sir and Sumit Vashishtha sir for keeping my interest intact during college days. Keep learning & stay happy.

[FACULTY EDITORS]
Dr Deepshikha Patel
Ms Prachi Sharma

[STUDENT EDITORS]
TANYA JAIN
(CSE VI SEM)
SOUMYA SRIVATSVA
(CSE IV SEM)

Feel free to send news, photo, awards, achievements and other related content to: sirtcsenewsletter@gmail.com