SAGAR INSTITUTE OF RESEARCH & TECHNOLOGY
9001 - 2008 ISO Certified Institute of MP

MAY 2022 EDITION

CSE

COMPUTER SAMWAD
A publication of the Sagar Institute of Research & Technology Computer Science and Engineering Department

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 & research with IT based knowledge management to meet global challenges.**
- **To inculcate ethical, moral, & cultural values among Computer Science & Engineering professionals.**

The Department of Computer Science & Engineering is one of the core Department of SIRT and was established in 2003 to initially offer Bachelor of Engineering degree in Computer Science & Engineering. Keeping in view the dynamic nature of growth in the industry and the increasing demand for IT professionals, later the Department has started a postgraduate program to offer Masters of Technology.

STUDENT'S ACHIEVEMENT

We Congratulate our student MOKSHA JAIN, Batch 2022, CSE B.TECH, placed at Walmart, Global Tech India at a package of 23 LPA. A very happy moment for CSE Department and T and P cell SIRT

We are proud of her hard work and achievement.

Happy to announce that ATHARVA AGRAWAL , student of B.Tech CSE, SIRT, won in Modern united Nation(MUN), held at Sage University Indore.

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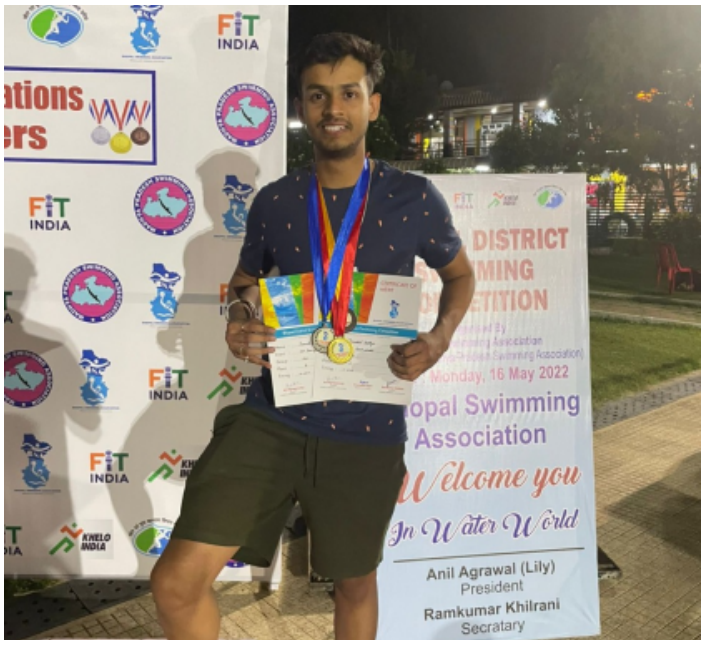
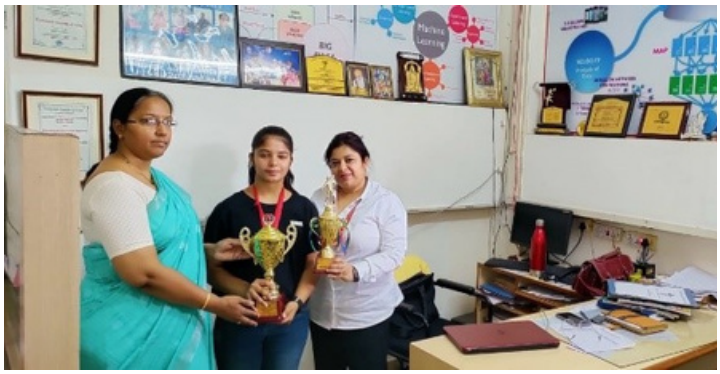
STUDENT'S ACHIEVEMENT

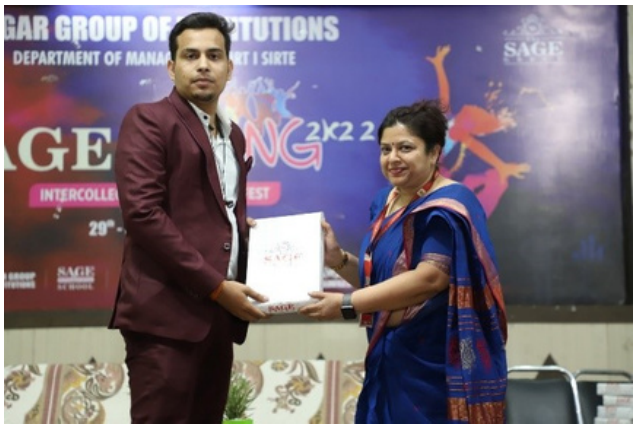


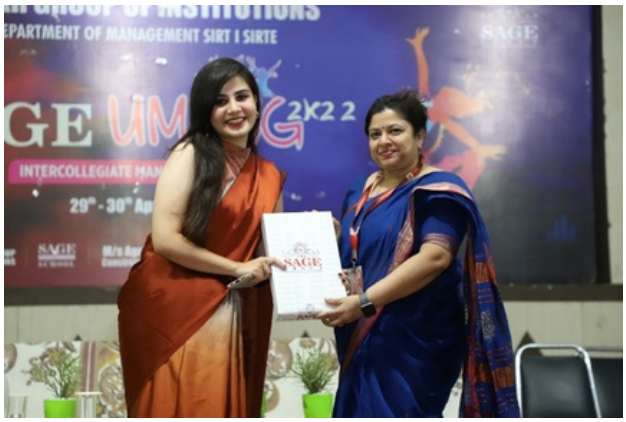
Pranshul Shakya of CSE 2nd Semester won the Gold medal in 50 m and 100 m Back stroke, Silver medal in 50 m Butterfly and Bronze medal in50 m Freestyle in Men's category at District level Swimming Competition held on 22nd May. He has been selected for 44th Open state level completion to be held in June.

We are proud of his hard work and achievement.



We are happy to announce that Muskan Sen of CSE Department won State level Badminton Tournament, held at RGPV university in May 2022.





Rohit Rawat and Mehek Puruswani won the Excellent performer award from CSE Department in NIRGAM 2022, on 23rd may, 2022, (a Farewell function) organized at SIRT.

VOICE

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.

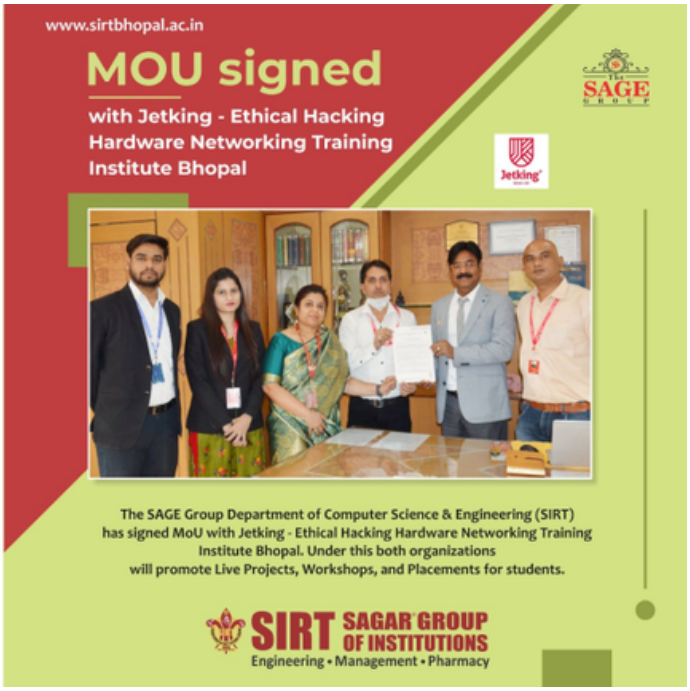
At Present, the Department offers B.Tech. in Computer Science & Engineering and M. Tech. in Computer Science & Engineering.

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 Ritu Shrivastava Professor & Head

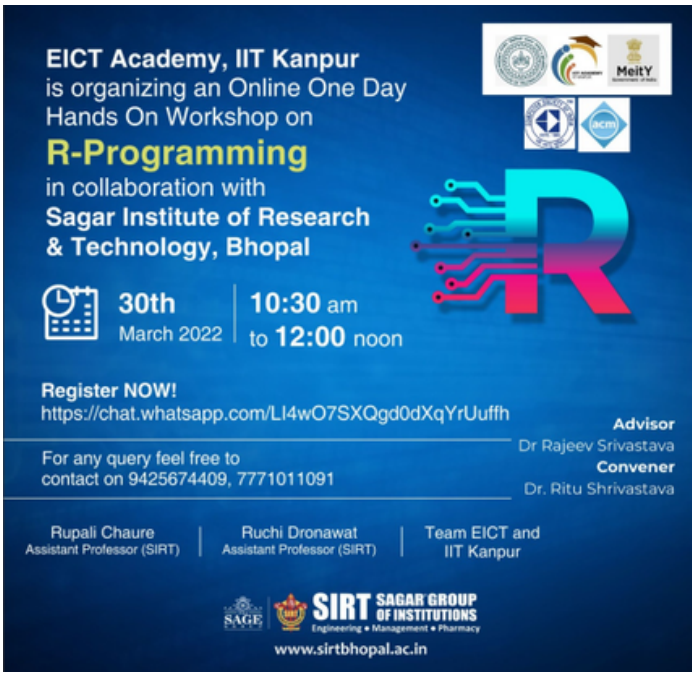
ACHIEVEMENTS



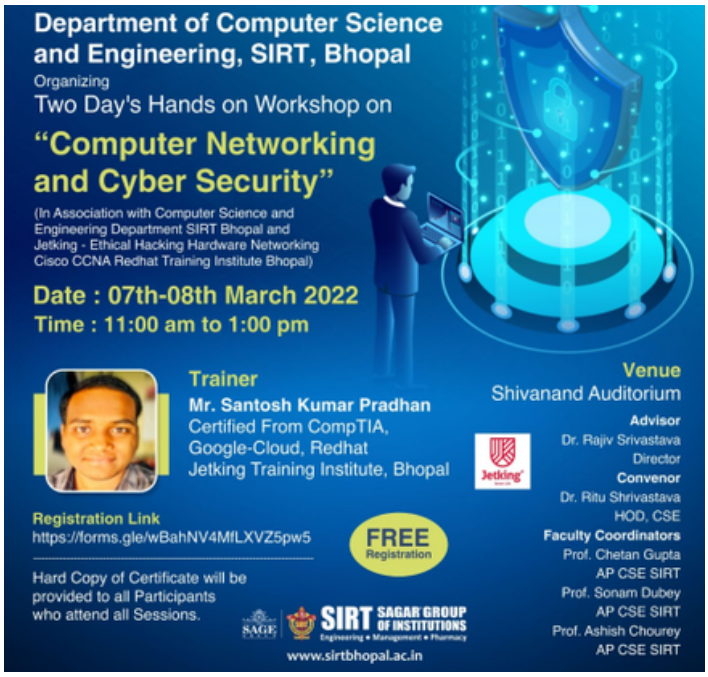
We are happy to announce that The Department of Computer Science and Engineering, SIRT has signed MOU with Jetking-Ethical Hacking Hardware Networking Training Institute, Bhopal, Coordinated by Chetan Gupta. Under this both organizations will promote live projects, workshops, and placements for students.

Industrial visit to CRISP, Bhopal was conducted for Department of CSE, IV semester students, April 2022.

WORKSHOPS

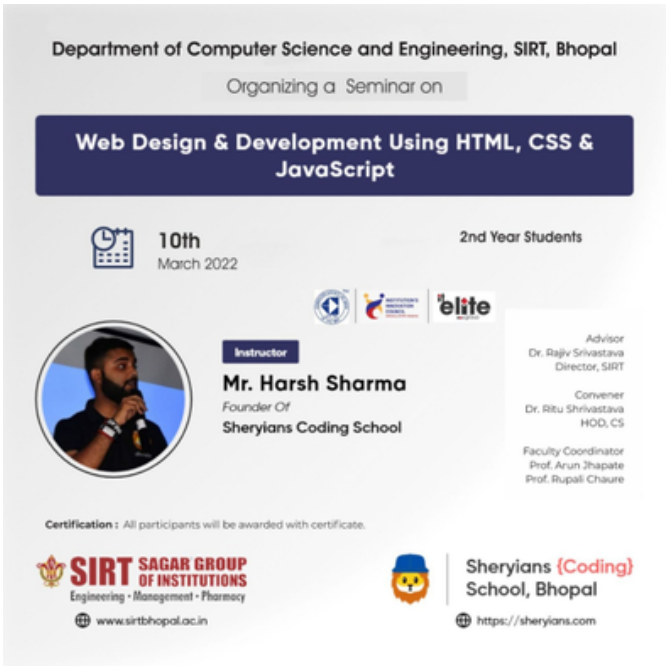


An Online workshop in Coordination with IIT Kanpur is being conducted on R programming on 31st March.



Department of Computer science and Engineering organized a hands on Workshop on Computer Networking and Cyber Security by experts from Jetking Pvt. Ltd.

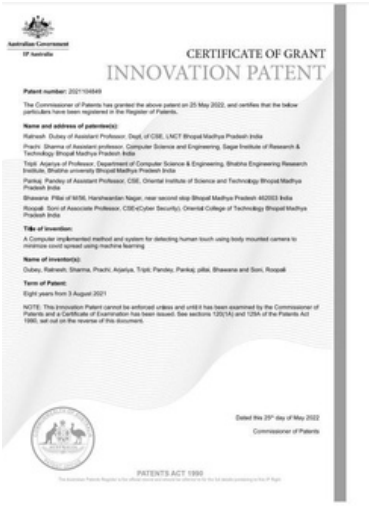
Workshop was organized on " Cyber Crime Awareness & Cyber Security", by Mr. Mahesh Srivastava, certified ethical hacker, security analyst and cyber forensic investigator.



A Seminar on Website Design and Development held on 10th March was conducted by Mr. Harsh Sharma of Sherians School for second year CSE students.

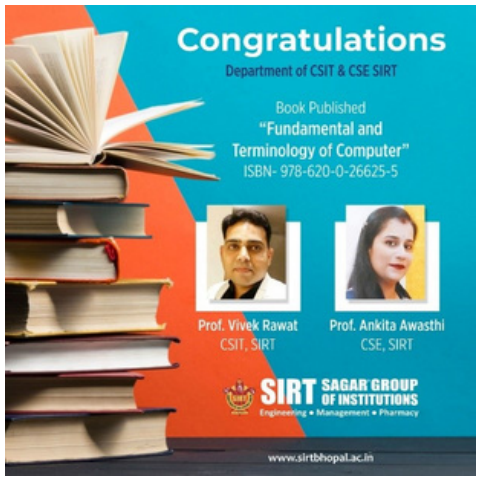
FACULTY ACCOLADES

PATENT


CERTIFICATE OF GRANT
INNOVATION PATENT

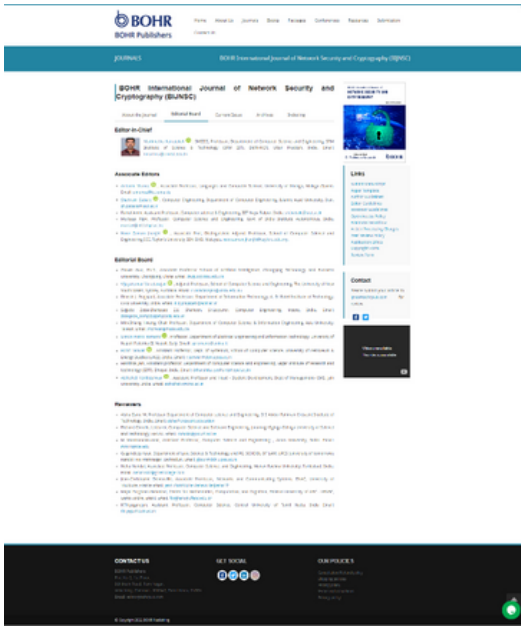
One Australian Patent has been published by Prof. Prachi Sharma.
Patent no. 2021104849

BOOK PUBLICATION



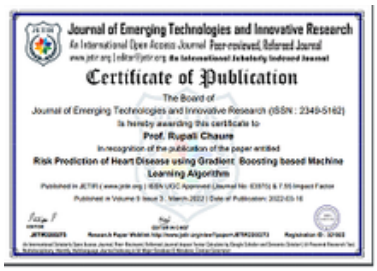
Book was Published by Prof. Ankita Awasthi titled "Fundamental and Terminology of Computer"

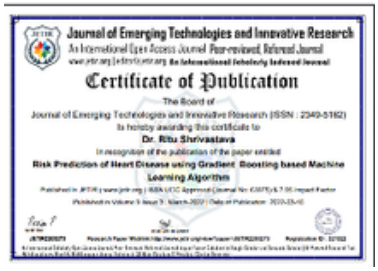
REVIEWERS



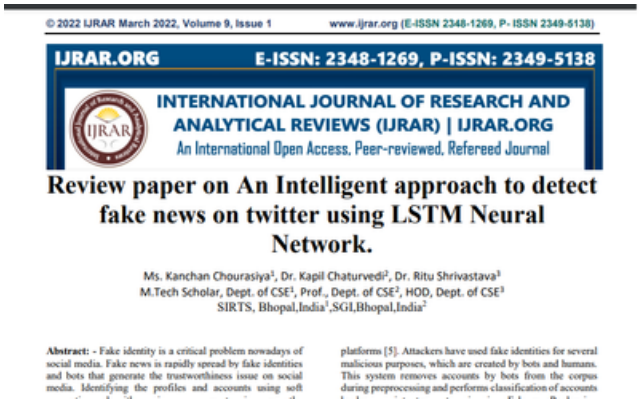
Prof. Harshita Jain was appointed as an editorial board member for BOHR International Journal of Network Security and Cryptography (BIJNSC)

PAPER PUBLICATION





Prof Rupali Chaure and Dr. Ritu Shrivastava published a Paper titled Risk prediction of Heart Disease using Gradient boosting based Machine Learning Algorithm in Journal of Emerging Technologies and Innovative Research in March 2022.



A paper by Dr. Kapil Chaturvedi and Dr. Ritu Shrivastava was published in UGC Care jounal IJRAR titled : " A Review Paper on an Intelligent Approach to Detect fake news on Twitterusing LSTM Neural Network

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.

"Water Pot for Birds" An activity to save Sparrows was conducted by students of SAC held under True Sage Foundation

EDITORS

Prof. Prachi Sharma,
Assistant Professor,
CSE,SIRT

STUDENT EDITORS

Anushree Gupta IV Sem CSE
Sahil Shrivastava IV Sem CSE