





## [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



**Team Name**  
**AwesomeCase**

  
Ishaan

  
Prateek Bagre

  
Mitali Patle

  
Mentor  
Prof. Arun Jhapate

  
Mayank Sahu

  
Prashant Tiwari

  
Pranav Kushwaha

  
Prof. Ruchi Dronawat

**Winner Cash Prize ₹ 1,00,000**

**Problem Statement AK10**

Nodal Center :  
Banaras Hindu University, Banaras



**SIRT SAGAR GROUP OF INSTITUTIONS**  
The SAGAR Group SIRT-S | SIRT-E | SIRT-P | SIRT-P

[www.sirtbhopal.ac.in](http://www.sirtbhopal.ac.in)

## SAMRT INDIA HACKATHON (SIH 2K20)

Congratulation Achievers!

We are taking pride in announcing that our SIRT Bhopal's team from Department of computer science & Engineering, Successfully Developed an application for Airport Authority of Indian within 36 hours under the guidance of Prof. Arun Kumar Jhapate, Assistant Professor, CSE, SIRT and Prof. Ruchi Dronawat, Assistant Professor, CSE, SIRT, in Smart India Hackathon and got First Position and won cash prize worth Rs 100,000/-.

## [SAGE SUMMER SCHOOL]

Sage Summer School on "Machine Learning using Python" organised by Department of CSE, SIRT from 26th Sep'2020 to 4th Oct 2020. Coordinated by Prof. Ankur Pandey, Assistant Professor, CSE, SIRT and Training by Prof. Rahul Shrivastava, Assistant Professor, CSE, SIRT

**Department of Computer Science & Engineering, SIRT-Bhopal**  
organizes

**Machine Learning Using Python**

"Under Sage Summer School"

Course Code : TSSS-CS-AP      **Date : 26th September to 4th October 2020**

[https://docs.google.com/forms/d/1SIexgtAXF-X75PM7IXYJAQFvIEWDdc2MFTdvW5\\_q\\_dc/prefill](https://docs.google.com/forms/d/1SIexgtAXF-X75PM7IXYJAQFvIEWDdc2MFTdvW5_q_dc/prefill)

**Advisor**  
Dr. Manish Manoria  
Group Director (Academics), SGI  
Director, SIRT & SIRT-S

**Convenor**  
Dr. Ritu Shrivastava  
HOD, CSE-SIRT

**Coordinator**  
Prof. Ankur Pandey  
Asst. Professor, CSE-SIRT

**Trainers**  
Prof. Rahul Shrivastava  
Assistant Professor,  
Department of Computer Science & Engineering, SIRT Bhopal



**SIRT SAGAR GROUP OF INSTITUTIONS**  
The SAGAR Group SIRT-S | SIRT-E | SIRT-P | SIRT-P

[www.sirtbhopal.ac.in](http://www.sirtbhopal.ac.in)

E -Certificate to be Provided to all Participants.



**SIRT SAGAR GROUP OF INSTITUTIONS**  
The SAGE Group SIRT-S | SIRT-E | SIRT-P | SIRT-P  
Department of Computer Science & Engineering

**Sage Talks!**  
#ConnectOnlineWithSage

## Webinar

### The Latent Power of Absurd Ideas

**Dr. Jayant R. Haritsa**  
Sr Professor  
Dept. of Computer Science & Automation  
IISc Bangalore

**4th July, 2020**  
**11.00 am**

Join Us Live On  
Zoom Meeting  
Meeting ID : 813 4391 5134  
Password : 239046

**Dr. Rajesh K. Shukla**  
Moderator  
Professor and Head - CSE, SIRT  
www.sirtbhopal.ac.in

acm-w IEEE

The Department of CSE of SIRT organized International SAGE Talk to on 04th July 2020, 11:00 AM on the topic "The Latent Power of Absurd Ideas" by Dr Jayant R Haritsa, Professor IISc Bangalore, President ACM India ACM Eminent Speaker.

**SIRT SAGAR GROUP OF INSTITUTIONS**  
The SAGE Group SIRT-S | SIRT-E | SIRT-P | SIRT-P  
Department of Computer Science & Engineering

**Sage Talks!**  
#ConnectOnlineWithSage

## Emerging Trends in Higher Education and Accreditation

**Prof. K. K. Aggarwal**  
Chairman NBA  
Founder Vice Chancellor  
of GGS Indraprastha University, Delhi  
Former Pro Vice-Chancellor, GJU, Hisar  
Former President of IETE 2002-2004  
Former President of CSI 2007-2009  
Former President of SEARCC 2008-10

**Er. Sanjeev Agrawal**  
CMD, The SAGE Group  
Moderator

**27th July 2020 | 11:00 am**

ID: 851 3062 2177 Password: 300705  
www.sirtbhopal.ac.in

The Department of CSE of SIRT organized International SAGE Talk on Emerging Trends in Higher Education and Accreditation." by Prof. K. K. Aggarwal, Chairman NBA on 27th July 2020, 11:00 AM. More than 500 participants around the nation attended the talk.

**SIRT SAGAR GROUP OF INSTITUTIONS**  
The SAGE Group SIRT-S | SIRT-E | SIRT-P | SIRT-P  
Department of Computer Science & Engineering

**International Sage Talks!**  
#ConnectOnlineWithSage

## Webinar

### Role of Data Architecture in Cloud Computing

**Mr. Sunil Varlani**  
Technology Consultant/Data Architect/  
Data conversion/Data Steward /ETL/  
Tableau Analyst, Accenture Australia Pty Ltd  
Melbourne Australia

**30th July, 2020**  
**1.00 pm**

Join Us Live On  
Zoom Meeting  
Meeting ID : 723 9928 2768  
Password : 92835

**Prof. Monika Kherajani**  
Moderator  
Asst. Professor CSE, SIRT

**Prof. Noopur Samaiya**  
Coordinating  
Asst. Professor CSE, SIRT

www.sirtbhopal.ac.in

Department of Computer Science and Engineering SIRT has organized a SAGE talk on topic "Role of Data Architecture in Cloud Computing" By Mr Sunil Varlani, Technology Consultant, Data Architect, Data Conversion, Data Steward, ETL, Tableau Analyst at Accenture Australia Pty Ltd on 30 July 2020.

**SIRT SAGAR GROUP OF INSTITUTIONS**  
The SAGE Group SIRT-S | SIRT-E | SIRT-P | SIRT-P  
Department of Computer Science & Engineering

**Sage Talks!**  
#ConnectOnlineWithSage

## Webinar

### Deep and Reinforcement Learning

**Dr. Dharmendra Singh Rajput**  
Associate Professor,  
VIT Vellore

**18th September, 2020**  
**11.00 am**

Join Us Live  
Zoom Meeting  
Meeting ID : 571 101 9897  
Password : sagecse

**Moderator**  
**Prof. Sanjeev Kumar Sharma**  
**Prof Rahul Shrivastava**  
Assistant Professor

Registration link :  
<https://forms.gle/voAhpe8xgvFoMKjFA>

www.sirtbhopal.ac.in

Department of Computer Science and Engineering SIRT has organized a SAGE talk on topic "Deep and Reinforcement Learning" By Dr. Dharmendra Singh Rajput Associate Professor, VIT Vellore on 18 September 2020, 11:00 AM.

## [PATENT]

Patent titles "Method for Monitoring Computing Devices of Users for Controlling Movements to reduce Spread of COVID-19 Pandemic" published by **Dr Rajesh K Shukla, Ruchi Dronawat, Dr. Deepshikha Patel, Arun Jhapate, and Ankur Pandey** on 31 July 2020.

One Patent filed on the topic "Debris Collector nail cutting Equipment" by **Dr Ritu Shrivastava** along with team members on 24 September 2020.

## [PAPER PUBLICATION]

Research Paper on "Social BOT detection for Twitter data sets by User action and Genetic Igorithm" published by **Dr .Ritu Shrivastava** in International Journal Of Scientific Research and Engineering, Vol 6 Issue 5, Sept '2020 Pg. 2826-2830



## [EXPERT LECTURE]

Prof. Ankur Pandey delivered an Expert Lecture on "Security Issues and Future Prospects of ICT tools." in AICTE Sponsored Online Short term Training Program.

## [REVIEWERS]

Dr. Deepshikha Patel, appointed as reviewer in ACM Transaction on web (TWEB Journal)

Dr. Deepshikha Patel reviewed a Manuscript ID TWEB-20-0024 entitled "AI-UNet: Attention Information based Deep URL Network for Adult Webpage Classification" submitted to the Transactions on the Web.

## [CONFERENCE]

Dr Deepshikha Patel, Attended Two Days International Conference organized by Sagar Institute of Research and Technology- Pharmacy Bhopal on the topic entitled "Transforming Challenges into Opportunities: Post COVID 19 Era" on 10th - 11th July 2020.

Prof. Komal Tahiliani and Prof. Anupriya Singh attended two days conference "Cyber Security- Compliance and Etiquettes" held from 25-26 Sep'2020

## [WORKSHOPS]

Dr. Deepshikha Patel, Attended three Days Online Workshop on "Embedded systems, Internet of Things IoT and Digital System Design Overview and an industry perspective" Organised by TEQIP-III RGPV, Bhopal from July 24th, - July 26th 2020.

Prof. Arun Jhapate attended one day online workshop on "Recent Advancement in science and Technology" organized by Vikrant Institute of Technology and Management, Gwalior, Sept 2020

## [FDP]

Prof. Anupriya Singh, Prof. Komal Tahiliani, and Prof. Vinay Lowanshi attended a Faculty Development Program on "Leadership, Managerial skills and Professional Ethics" held on 10th to 16th Sep'2020

Prof. Komal Tahiliani attended a Faculty Development Program on "Block Chain" scheduled from 15th to 19th Sep'2020

## [STTP]

Dr. Ritu Shrivastava, Prof. Arun Jhapate, Prof. Ankur Pandey, Prof. Komal Tahiliani, and Prof. Anupriya Singh attended a AICTE sponsored STTP on "Post Covid Challenges in Teaching Learning" organized by Department of Electronics and Communication, SIRT, Bhopal held from 15-19 September 2020

## [WEBINARS]

Prof. Arun Jhapate and Prof. Ruchi Dronawat attended a Webinar on "Entrepreneurship, startups and Intellectual property rights" on 8-9 September 2020, organized by SAGE, University, Indore.

Prof. Rahul Shrivastava and Prof. Komal Tahiliani attended a national webinar on "Effects of Higher Education Institutes after COVID-19 Pandemic" organized by Peoples University, Bhopal on 5 September 2020.

Prof. Anupriya Singh, Prof. Komal Tahiliani, Prof. Vinay Lowanshi and Prof. Ashutosh Pandey attended a webinar on "New Education Policy:2020 -A Road Map for technical Education" on 23 September 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.

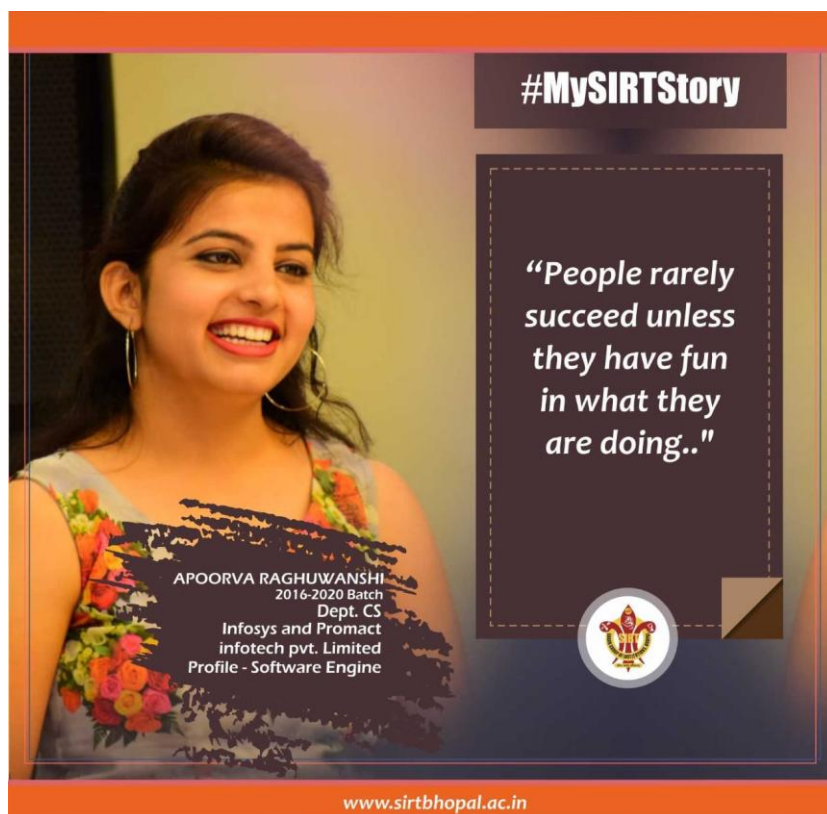
## [PROGRAM EDUCATIONAL OUTCOME]

**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.



## [EDITORS]

Dr Deepshikha Patel  
Associate Professor,  
CSE, SIRT, Bhopal  
Ms. Prachi Sharma  
Asst. Prof.  
CSE, SIRT, Bhopal

Feel free to send news, photo, awards, achievements and other related content to: [sirtcsnewsletter@gmail.com](mailto:sirtcsnewsletter@gmail.com)

**Student Editors:**  
Tanya Jain VI th sem  
Soumya Shrivastava IV th sem