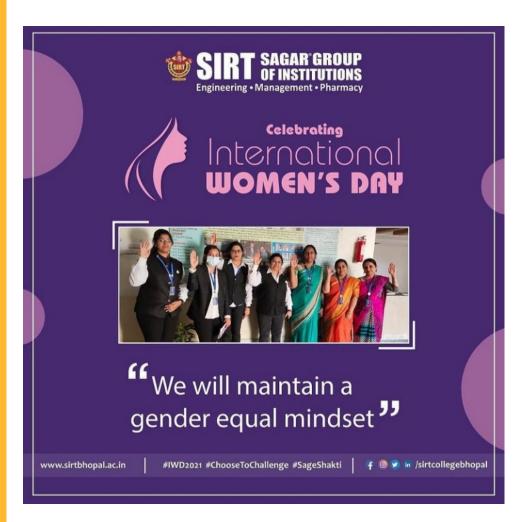# CSE

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

International Women's Day celebrated at CSE department,SIRT, where all the female faculties participated in the #ChoosetoChallenge and take a pledge to maintain a gender equality mindset in the society and nearby.

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.

PLACEMENT

We would like to shine the spotlight on our talented students of batch 2021.

We Congratulate our students- Suyesh Joshi, Sakshi Andani, Shail Kumari S Mishra, Akansha Parihar, Sourav Ranjan, Archit Maheshwari, Samra Qureshi, Parth Sharma, Faizan Mansoori and Nikita Kukde for getting placed in Cognizant.

We are proud of her hard work and achievement and feels happy and excited for your success and future endeavors ahead.

Also we want to Congratulate Ambe Kalawati, Smrita Sachdeva, Anshul Sahu, Muskan Dubey, Rishi Gupta, Diya Dheer and Sakshee Shree for getting placed in New Vision and V2Solutions.

We are proud of her hard work and achievement and feels happy and excited for your success and future endeavors ahead.
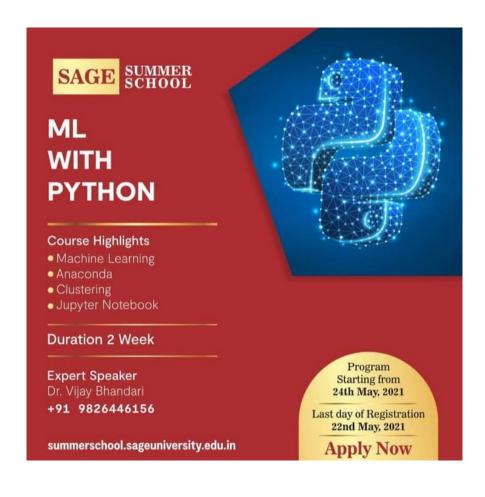
RESULTS

SAGAR INSTITUTE OF RESEARCH & TECHNOLOGY, BHOPAL

Department of Computer Science & Engineering

V Sem Toppers

| HIMANSHU DALAL | CHANCHAL GOYAL | SOMYA SRIVASTAVA | CHHAVI SAXENA |
| SGPA 9.63 | SGPA 9.54 | SGPA 9.46 | SGPA 9.46 |

www.sirtbhopal.ac.in

Happy to announce that Fifth semester students performed very well in the exam and we congratulates all the topper students for their out of the box performance.

Himanshu Dalal, Chanchal Goyal, Somya Srivastava and Chhavi Saxena are the topper students from the batch 2018-2022.

SAGE SUMMER SCHOOL

SAGE SUMMER SCHOOL

ML WITH PYTHON

Course Highlights
- Machine Learning
- Anaconda
- Clustering
- Jupyter Notebook

Duration 2 Week

Expert Speaker
Dr. Vijay Bhandari
+91 9826446156

Program Starting from 24th May, 2021

Last day of Registration 22nd May, 2021

Apply Now

summerschool.sageuniversity.edu.in

SAGE SUMMER SCHOOL Session on Machine learning with Python From 24th May Duration:2 weeks Expert: Dr.Vijay Bhandari, Dr.Sanjeev Sharma and Prof. Harshita Jain

VOICE
A Message from the Department Chair

NATIONAL TECH CONCLAVE

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.

Three days National Tech Conclave 2021 Under CSI and IQAC from 13 May - 15 May 2021, time 3 pm to 4 pm.

The experts were- Mr.Jaswant Mandloi, T & P officer Govt. Poly, Daman, Dr.Piyush Kumar Shukla, UIT RGPV, Dr. Deepak Kumar, Amity University, Dr.Dinesh Amity University. C

Convenor: Dr. Ritu Shrivastava, Coordinators: Prof. Shivendra Dubey, Prof. Rupali Chaure and Prof. Chetan gupta.

Yours,
Dr Ritu Shrivastava Professor & Head

VALUE ADDED COURSES

VALUE ADDED COURSE was Organised by computer science & Engineering Department Value addition course on Redhat Linux & cloudFrom 18th may 2021 (for one week) Convenor: Dr.Ritu shrivastava and Coordinator:Dr.Amit shrivastava

Online quiz was organised by computer science department on C/C++ skills on 5th May Convenor: Dr.Ritu shrivastava and Coordinator:Ashish Chaure and Vinay Lowanshi

EXPERT LECTURES

Hands on Training Session on "Augmented Reality Using Spark AR" was Organised by computer science & Engineering Department, from 4 and 5 March 2021 (for 2 days) Convenor: Dr.Ritu shrivastava and Coordinator: Prof. Harshita Jain

Expert Lecture on Web Designing Using Python was Organised by computer science & Engineering Department on 20 March 2021 Convenor: Dr.Ritu shrivastava and Coordinator:Dr. Kapil Chaturvedi

Expert on "Career Excellence and Entrepreneurship" was Organised by computer science & Engineering Department, on 25 March 2021 (for 2 days) Convenor: Dr.Ritu shrivastava and Coordinator: Prof. Harshita Jain.

SAGE TALKS

This Sage Talk was organized by the department on 28 April, 2021 on "Opportunities and Current Trends in IT for Freshers" by Mr Mukesh Chandwani. This talk has been coordinated and moderated by Dr. Amit Shrivastava

Another Sage talk was organized by the department on 3 May, 2021 on "Classification and Security in MANET" by Dr.Shailja Shukla RNTU. This talk has been coordinated and moderated by Dr.Vijay Bhandari.

The Sage talk was organized by the department on 11 May, 2021 on "How to lead with emotional Intelligence in the time of Covid by Dr.Dalima Parwani,Principal Sant Hirdaram girls College,Bhopal. This talk has been coordinated and moderated by Prof. Shivendra Dubey and Prof. Chetan Gupta.

This Sage talk was organized by the department on 8 May, 2021 on "Seminar on Cyber Security by Mr.Rahul Mishra, Cyber Security advisor, U.p Police. This talk has been coordinated and moderated by Prof. Aditi Purohit and Prof. Shilpa Agnihotri.

FACULTY ACHIEVEMENTS

Dr. Vijay Bhandari received young scientist Award on Engineering,Science and Medicine (HYDRA 2021) on 22 & 23-Oct-2021 at Hyderabad, India.

Prof.Ankur Pandey has been awarded Maulana abul kalam azad Excellence award of education for his outstanding contribution in the field of Education.

Prof. Shivendra Dubey* and *Prof. Chetan Gupta* were Invited and Taken *Online webinar* as a *SPEAKER* in *3 Days Training Program* on Topic *Basic concept of DBMS using MySQL* in *DDU-GKY Center Bhopal* Which is Running by *Try logic Soft Solution AP Pvt. Ltd. Hyderabad* Form 4:00PM to 5:00PM under which *40 Students* Attended the Session.

Prof.Harshita Jain has Completed 3 certificate courses in a row tagged with University of London,
CRISP & IBM.

Prof.Harshita Jain Has been successfully the part of GUINESS BOOK OF WORLD RECORD FOR 24 HRS OF LIVE CODING.

25 students are selected from SGI for Frontend Web Developer Innovation Camp of IBM, under the coordination of Dr Kapil Chaturvedi& Dr.Ritu shrivastava.

FACULTY ACCOLADES

AWARDS

Dr.Amit Shrivastava received Best Faculty award in Srijan

Dr. Kapil Chaturvedi has been selected as a core committee member of IC-AICE

Congratulations to all the faculty members of Department for completing more than 20 - IBM certifications in various technologies under IBM SkillBuild program.

PAPER PUBLICATION

- Title:IOT based Finger Print sensor door Lock Authors:Dr.Ritu shrivastav Dr.Sanjeev sharma,Submiited paper in international conference on "Advances in Renewable Energy and Electric vehicles"

- Title:Digitalize Desk using Python By Dr.Ritu shrivastava Dr.Sanjeev Sharma PublishedResearch Paper in National conference on IOT,Machine Learning,Artificial Intelligence and its Applications

- Paper Presented in NCRIMA Adjoining Data Mining with IOT:A Survey AUTHORS: Dr.Ritu shrivastava,Harshita Jain

- Prof.Mayank Namdeo had published one paper "an Optimized communication scheme for energy efficient and secure flying ad hoc network(FANET)" in Springer on 24th april 2021.

- Submiited paper in international conference on "Advances in Renewable Energy and Electric vehicles" Title:IOT based Finger Print sensor door Lock Authors:Dr.Ritu shrivastava ,Dr.Sanjeev sharma

- Published Research Paper in National conference on IOT,Machine Learning,Artificial Intelligence and its Applications Title:Digitalize Desk using Python By Dr.Ritu shrivastava and Dr.Sanjeev Sharma

- Paper Presented in NCRIMA Adjoining Data Mining with IOT:A Survey AUTHORS:Dr.Ritu shrivastava and Harshita Jain

- Prof. Chetan Gupta, Prof. Shivendra Dubey published a paper Entitle "A Detailed Survey on Intrusion Detection System based on NSL-KDD Dataset using Various Approach" in "International Journal of Creative Research Thoughts (IJCRT)" Volume 9, Issue 5 Page No : 408-412, on 18 May 2021, ISSN: 2320-2882

FACULTY ACCOLADES

PATENT

1.) Patent Granted: International Patent Granted on "a system and Method on Disaster Management using Flying Ad-Hoc Network" Patent Id:2020102992 Dr.Ritu Shrivastava, Dr.Amit shrivastava, Prof.Ankur Pandey, Prof.Aditi Purohit

2.) Prof. Harshita Jain published one Patent
Title: Smart Industrial Manufacturing using Low Power wide connectivity IoT based machine to machine approach.

CONFERENCE

All Faculties attended International conferenceNCRMA-2021 organized by EC deptt,SIRT-May 2021.

Dr.Kapil Chaturvedi has attended "International conference on Advancements and Innovations in civil Engineering"Organized by K.D.college of Engineering,Nagpur from 18-20 th march-21

Prof. Anupriya Suman has successfully attended 2 days conference on " Security, Privacy and Applied Cryptographic Engineering" from 12 to 13 Feb-2021.

Dr.Komal Tahiliani attended Conference on "Security, Privacy and Applied Cryptographic Engineering" from 12 to 13 Feb-2021.

Dr.komal Tahiliani had attended virtual International conference on "Emerging trends in Engineering ,science ,management & commerce on 21-22 May 2021 organised by Madhyanchal Professional university,Bhopal.

Prof.Anupriya singh suman had attended virtual International conference on "Emerging trends in Engineering ,science ,management & commerce on 21-22 May 2021 organised by Madhyanchal Professional university,Bhopal

BOOK PUBLICATION

Prof. Harshita Jain has successfully submitted and Accepted one chapter titled "An Intelligent Parenting: System Artificial Mother Monitoring system For sleeping Infant" for the book "Intelligent Sensor based Network & System for Application in Engineering & Sciences"to be published by Apple academic Publisher& Taylor& Francis.

REVIEWER

Dr.Vijay Bhandari had appointed as a Reviewer of book chapter "covid 19 learning through case studies",chapters will be published by springer

Prof. Chetan Gupta becomes a Professional Member in Institute for Engineering Research and Publication IFERP ON 16 MAY 2021.

Dr.Vijay Bhandari is appointed as a scientific committee member in International conference on Data science,Machine Learning and applications 2021.

Dr.Sanjeev Sharma has become Editorial member and reviewer in IFREP & also reviewing paper for WSN an Elsevier journal

Prof Harshita Jain has become Lifetime member of Research Foundation of India(RFI)

FACULTY ACCOLADES
FDP

Prof. Nitin Varshney : Attended one FDP on "Next Generations system: Artificial Intelligence and Machine Learning" From 8 th Feb to 12 th Feb 2021.

Prof. Rupali choure attended one week FDP on "Cybersecurity and Digital Forensics" from 15 th Feb to 20 th Feb 2021.

Prof. Rupali Choure Attended AICTE-RGPV Joint Teachers Training Program on "Artificial Intelligence in Pharmaceuticals: Contemporary status & Impending Prospects"

Dr Kapil Chaturvedi, attended one week Faculty Development Program on Next generation System: Artificial intelligence and Machine Learning from 08-12 February 2021, organized By SATI Vidisha.

Prof. Harshita Jain attended one week FDP on Machine Learning using Python from 22 to 26 th Feb 2021 organised bt S.B.Jain Institute of Technology, Management & Research,Nagpur.

Prof. Harshita Jain attended FDP on cyber Security from 22 nd to 27 th Feb 2021 organized by EICT academy-IIT,Kanpur.

Prof.Mayank Namdev Attended AICTE FDP on "Internet of Things" .

Prof.Mayank Namdev Attended FDP on "Industrial application of MATLAB"

Prof.Chetan Gupta Attended FDP on "Next Generation system:artificial Intelligence and Machine Learning" from 8 th to 12 th Feb 2021 Organized by S.A.T.I.Vidisha.

Dr.vijay Bhandari Attended FDP on "Next Generation system:artificial Intelligence and Machine Learning" from 8 th to 12 th Feb 2021 Organized by S.A.T.I.Vidisha

Prof.Ashutosh Pandey attended a webinar on "Machine Learning " on 25 th Feb2021.

Prof.Harshita Jain attended 2 days workshop on "computing Intelligence in Data Analytics" from 8-9 feb 2021 organized by UIT-RGPV,Bhopal.

Prof.Sanjeev kumar Sharma had successfully participated in 7 Day FDP on "Developing Teching Techniques and Research Skills"by Govt.Mahakoshal arts and Commerce Autonomous Lead College,Jabalpur

.

Prof.Prachi Sharma attended two FDP By E & ICT Academy, IIT Kanpur on Linux and Python.

Prof.Ruchi Dronawat attended one FDP By E & ICT Academy, IIT Kanpur on Advanced Excel with Data Visualization.

Dr.Komal Tahiliani attended 2 FDP's on "Cloud Computing"from 10th May to 15th May 2021 organized by E&ICT Academy ,IIT Kanpur and on "cyber security" from 24th to 29th May 2021.

Prof.Mohit Tomar attended FDP on "Cloud Computing"from 10th May to 15th May 2021 organized by E&ICT Academy ,IIT Kanpur.

Prof.Anupriya Singh suman attended FDP on "Cloud Computing"from 10th May to 15th May 2021 organized by E&ICT Academy ,IIT Kanpur and on "cyber security" from 24th to 29th May 2021.

Prof.Aditi Purohit attended FDP on "Cloud Computing"from 10th May to 15th May 2021 organized by E&ICT Academy ,IIT Kanpur.

Prof.Priyanka sharma attended 2 FDP's on software development(17-22 may)&python (24-29 may) sponsored by E&ICT academy,kanpur.

Prof.Shilpa Agnihotri completed Machine learning essentials for business and Technical decision makers by AWS training &certification

Prof.Nitin Vaishney had attended FDP on cyber security organised by Swarnmandhra college of engineeering .

Prof.Mayank Namdev attended 2 FDP's ,one on "Bridging the Gap between academicia and Industry Organised by GL BAJAJ Group of intitutions,mathura Other FDP on python organised by EICT academy,kanpur from 24th May to 29th May 2021.

Prof.Ankur Pandey had attended FDP on python organised by EICT academy,kanpur from 24th May to 29th May 2021.

Prof.chetan gupta had attended webinar on ':IEEE Explore"organised by SIRT,Bhopal

Prof.Mayank Namdev had attendedwebinar on 'career prospectives"on 21st May 2021

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.

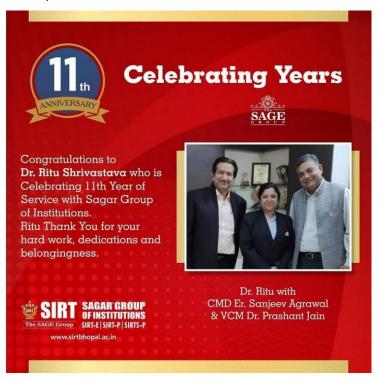PEO3: Graduate shall have good communication skill, leadership skill, professional and ethical values.

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.

11th ANNIVERSARY

Celebrating Years

The SAGE GROUP

Congratulations to Dr. Ritu Shrivastava who is Celebrating 11th Year of Service with Sagar Group of Institutions. Ritu Thank You for your hard work, dedications and belongingness.

Dr. Ritu with CMD Er. Sanjeev Agrawal & VCM Dr. Prashant Jain

SIRT SAGAR GROUP OF INSTITUTIONS
The SAGE Group SIRT-E | SIRT-P | SIRTS-P
www.sirtbhopal.ac.in

Congratulations to Dr. Ritu Shrivastava, Dean and HoD CSE, for celebrating 11 years of Service with Sagar Group pf Institutions. We thank her, for her dedications, hard work and belongingness.

EDITORS

Prof.Prachi Sharma,
CSE,SIRT

Dr.Deepshikha Patel,
CSE,SIRT

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