

SOPHIA COLLEGE
(AUTONOMOUS),
AJMER



DEPARTMENT OF COMPUTER
SCIENCE

**International/National
Seminars/ Conferences/
Workshops**

2024-25

International Conference on Computing Innovations ICCI 2025

Organizing Committee

PATRON
Prof. Sister Pearl
(Principal)

CONVENOR
Mr. Gautam Chaturvedi
9530259383

ORGANIZING SECRETARY
Dr. Ritu Bhargava
9413994079

ORGANIZING COMMITTEE
Dr. Neha Sharma
7737618542
Mrs. Kiran Bhagnani
7976778262
Mr. Rishi Saxena
7891588339
Mrs. Pooja Dixit
Ms. Lavanya Gamrani
Ms. Chandni Sharma

CALL FOR PAPERS:

All accepted IEEE format papers will be published in the conference proceedings under an ISSN reference, on paper and on digital support. Papers for presentations should conform to the IEEE format and specifications. All submissions must be in English only. Authors are invited to submit full paper (Maximum 6 pages, double-column US letter size) in PDF using the IEEE templates.

CALL FOR POSTER:

Posters are invited on the following sub-themes:

- Artificial Intelligence
- Internet of Things
- Quantum Computing
- Cyber Security
- Blockchain

TechPioneers @ ICCI 25

Innovative ideas are invited under ICCI 2025

- Best Paper and Poster will be awarded
- Prize for Best Startup and Innovation Idea
- Certificate of Recognition

IMPORTANT DATES:

Submission of Papers: 15th Jan 2025
Notification of Acceptance: 30th Jan 2025
Paper Payment Deadline & Camera Ready Submission: 30th Jan 2025

REGISTRATION DETAILS PAYMENT QR CODE



SUBMIT YOUR PAPER ON:
submissionicci25@gmail.com

**Sophia Girls' College
(Autonomous), Ajmer**

Re-Accredited 'A+' Grade by NAAC (UGC)



**International Conference on
Computing Innovations
ICCI 2025**

organized by
Department of Computer Science

3rd - 4th FEB 2025

www.sophiascollege.com icci25@sgmail.com

ABOUT THE COLLEGE

Sophia Girls' College (Autonomous), Ajmer is an 'A+' Grade accredited Institute by NAAC (UGC) and is affiliated to Maharshi Dayanand Saraswati University, Ajmer. Since 1959 the College has been imparting quality higher education through its dedicated and conscientious staff with high academic credentials and diversity of courses. To inculcate scholarly confidence and make globally competent citizens, the Institute offers Generic, Skill Enhancement, Vocational & Diploma Courses for students. The College has an MBBD recognized Institutional Innovation Cell. It offers Cambridge English Level Certification, Diploma in French from the French Embassy, ISBO & DST sponsored programs under its aegis. As an initiative towards Institutional, Social and Environmental Responsibility, the College has developed a 'Sustainable Environment' by developing Biogas, Water Harvesting System and is one of the fully solar electrified campuses in Rajasthan. In this globalized world of competition and performance, the campus in the process of hiring new employees (in preference to candidates who are Certified Professionals). To keep up with the times, the College offers the following International Certification Courses that students can complete along with their regular Degree Programs.

ABOUT THE DEPARTMENT

The Department is dedicated to providing quality education that not only enhances the intellectual capabilities of young women but also opens doors to promising career opportunities, shaping them into professional and ethical individuals. Our focus is on educating students to become successful, ethical, and adaptive professionals, IT professionals and lifelong learners. The array of programs offered, including Ph.D. and M.Sc. in Computer Science, BCA and specialized courses such as Diploma in Animation Designing, reflects our commitment to preparing students for the evolving challenges of the 21st century. Through these diverse educational avenues, we aim to contribute positively to the economic well-being of our region and nation, empowering students to thrive in a dynamic and competitive professional landscape.

About the Conference

The ICCI 2025 International Conference on Computing Innovations aims to bring together leading researchers, academicians, industry professionals, and students from around the world to present and discuss their research, experiences, and ideas in the field of computing. The conference will cover a range of subjects, including Artificial Intelligence, Data Science, Cybersecurity, Cloud Computing, IoT, Quantum Computing, and more. Each track will include keynote speeches, technical paper presentations, panel discussions aimed at delivering the latest innovations and trends in the respective domains.

Relevance to National and Global Priorities

The conference themes directly align with national priorities such as Digital India (Leveraging digital technologies to boost the economy and provide services to the common man), Make in India (Encouraging research and innovations that can contribute to developing indigenous technologies), Atmanirbhar Bharat (Self-reliance India): Supporting self-sufficiency by advancing India's capacity for cutting-edge technological research and development, Sustainability (Promoting research in green computing and the ethical application of AI for sustainable development goals).

Target Audience :

The conference will attract a wide array of participants, including:

- Researchers and Academicians: Presenting their latest research findings and exploring future collaborations.
- Industry Professionals: Sharing insights on practical application and discussing future technology trends.
- Government Representatives: Engaging in discussions on tech policies, ethics, and national priorities.
- Students and Young Researchers: Participating in poster presentations and learning from leading experts in the field.
- Startups and Innovators: Showcasing emerging technologies and innovative solutions.

Tracks for ICCI 2025:

Original contributions (research papers) in the following fields are welcome.

- Artificial Intelligence, Machine Learning, and Data Science**
 - Deep Learning and Neural Networks
 - Natural Language Processing
 - Reinforcement Learning
 - Data Mining and Knowledge Discovery
 - Predictive Analytics and Data Visualization
 - Big Data Platforms, Real-time Processing
 - AI in Robotics, Autonomous Systems, and Responsible AI
- Cybersecurity, Blockchain, and Cloud Computing**
 - Cyber Threat Intelligence and Defense Mechanisms
 - Cryptography, Secure Computing, and Data Protection
 - Blockchain for Secure Transactions and Smart Contracts
 - Security in IoT, Cloud Computing, and Digital Age
 - Cloud Infrastructure, Virtualization, and Microservices
 - Cloud Security, Compliance, and Enterprise Applications
- Internet of Things (IoT), Edge Computing, and Emerging Technologies**
 - IoT Architecture, Protocols, and Security
 - Edge Computing, Fog Computing, and Low-Latency Systems
 - Industrial IoT, Smart Cities, and Healthcare Applications
 - 5G and Beyond Networks
 - Autonomous Systems, Drones, and Next-generation Computing
- Software Engineering, DevOps, and Human-Computer Interaction (HCI)**
 - Agile and DevOps in Software Development
 - Microservices Architecture, Container Integration, and Deployment
 - Software Testing, Debugging, and Code Optimization
 - User Interface Design, Usability, and Accessibility
 - Virtual Reality, Augmented Reality, and Brain-Computer Interfaces
- Quantum Computing, Ethics, and Impact of Emerging Technologies**
 - Quantum Algorithms, Cryptography, and Machine Learning
 - Quantum Computing Hardware and Applications
 - Ethical and Legal Aspects of Emerging Technologies
 - Tech Policy, Digital Inclusion, and Responsible AI
 - Social, Economic, and Environmental Impact of Computing Innovations

- **Name of the Department:** Computer Science
- **Name of the Activity:** International Conference on Computing Innovations ICCI 2025
- **Total Number of the Participants:** 217
- **Date:** 3rd & 4th February 2025
- **Venue:** Seminar Hall/ Virtual Room

Report

The International Conference on Computing Innovations (ICCI-25) took place on 3rd and 4th February 2025 at Sophia Girls' College, Ajmer. The inaugural ceremony began with a traditional Lamp Lighting and Invocation, followed by the Welcome Address by Principal Prof. Sr. Pearl. The Convenor, Mr. Gautam Chaturvedi, highlighted the conference's objectives. Chief Guest, Prof. Kailash Sodhani (Vice Chancellor, MDSU), delivered the inaugural speech, emphasizing the significance of computing innovations. Prof. Suresh Kumar Sharma (Punjab University) presented a keynote on data-driven computing approaches.

The conference focused on emerging technologies such as Artificial Intelligence and Blockchain, offering valuable insights to participants. In Technical Session I, keynote speakers like Prof. Vinod Kumar Sharma and Dr. Avinash Panwar shared expertise, followed by the presentation of several research papers. Discussions on these topics sparked lively exchanges among attendees. Poster sessions in Technical Session II A & II B encouraged feedback and idea refinement, with Dr. Reena Dadhich, Dr. Ashish Swami and Prof. Suresh Kumar Sharma, Ved Prakash Sharma and Dr. Sujla D. Shetty providing expert insights.

The conference concluded with a panel discussion on "Innovations in Computing for Sustainable Development," with participants discussing the role of computing in sustainability. On the second day, special talks by Prof. Suresh Kumar Sharma and others provided additional perspectives, and research papers presented in parallel sessions were evaluated by experts like Dr. Kirti Singh Rathore, Dr. Kirti Seth and Dr. Sonal Jain., Dr, Saravanan Muthyiah.

Learning Outcomes:

1. Gained a deeper understanding of emerging computing technologies such as AI and Blockchain.
2. Learned about the applications of data-driven approaches in real-world computing.
3. Enhanced knowledge of sustainable development through computing innovations.
4. Developed critical thinking through research paper presentations and discussions.
5. Improved research presentation skills by receiving expert feedback.



Google

GPS Map Camera

Ajmer, Rajasthan, India
Sophia Girls' College (Autonomous), Jaipur Rd,
Mirsali Colony, Ajmer, Rajasthan 305001, India
Lat 26.475981° Long 74.656024°
03/02/25 11:31 AM GMT +05:30



Google

GPS Map Camera

Ajmer, Rajasthan, India
Sophia Girls' College (Autonomous), Jaipur Rd,
Mirsali Colony, Ajmer, Rajasthan 305001, India
Lat 26.475981° Long 74.656024°
04/02/25 05:02 PM GMT +05:30



Ajmer, Rajasthan, India
Sophia Girls' College (Autonomous), Jaipur Rd,
Mirsall Colony, Ajmer, Rajasthan 305001, India
Lat 26.475981° Long 74.856024°
03/02/25 12:24 PM GMT +05:30

GPS Map Camera

2023-24



National Seminar



Organized by

Department of Computer Science

Sophia Girls' College (Autonomous), Ajmer

in Collaboration with Association for Computing Machinery

**GENERATIVE ARTIFICIAL INTELLIGENCE
USE CASES & APPLICATIONS**



Registration Link



**19th - 20th
MARCH 2024**

Payment Link



Report

Name of the Department: Computer Science

Name of the Activity: Seminar on Generative Artificial Intelligence Use Cases & Applications

Total Number of the Students: 136

Date: 19th – 20th March 2024

Venue: Seminar Hall

Report:

The Department of Computer Science hosted a National Seminar on “Generative Artificial Intelligence: Use Cases & Applications” on March 19-20, 2024. This seminar aimed to explore the rapidly evolving field of Generative AI, discussing its diverse applications, emerging trends, and future directions. Offer insights into the latest advancements in Generative AI technologies and their practical applications across various industries. Facilitate networking and collaboration among professionals, researchers, and students interested in AI.

The day included keynote speeches from renowned experts such as Prof. Shandar Ahemad, Dr. Vivek Kumar and Dr. Rizwan Alam, who provided an overview of current trends and future possibilities in Generative AI. On the second day Prof. Swapnesh Taterh and Prof Sumit Srivastava shared their expertise with the participants their talks covered various topics, including AI-driven content creation, advancements in neural networks, and ethical considerations.





Learning Outcome:

1. Gives an idea of role of Generative Artificial Intelligence Use Cases & Applications
2. Career-wise exploration in the field of GenAI.
3. Knowledge about course pattern and modules.

2022-23

Report

Name of the Department: Computer Science & Economics Department

Name of the Activity: International Workshop on Data Analysis using SPSS and R- language

Total Number of the Students: 50

Date: 20th – 22nd February 2023

Venue: Computer Science Department

Report:

The workshop was inaugurated with the lighting of the lamp by our Chief Guest and Keynote Speaker Mr. Vinod Kumar Murti, our Principal and Patron of the International Workshop Prof. Sister Pearl, co-patron Sr. Rani, Convener Ms. Divya Mishra, Co-Convener Mr. Gautam Chaturvedi.

Sr. Pearl invoked God's blessings on the workshop and the participants.

Ms. Divya Mishra, Convener of the Workshop, familiarized the participants with the agenda and objectives of the workshop by reading the concept note.

Our Keynote Speaker Mr. Vinod Kumar Murti National Head-IT ISDC, UK addressed the gathering on the use and importance of “Data Analysis using SPSS and R Language”.

Sir Vinod Kumar Murti, talked about data view and variable view, creating a dataset on variable view, correlation of variables, tools in SPSS, methodology to solve the undertaken task, implementation of the proposed work, analysis and comparing the current and published results.

Dr. Surender Kumar Kulshrestha, Asst. Prof., Department of Economics, Vardhman Mahaveer Open University, Kota.

Participants also learned to create a questionnaire and performed operations on the dataset.

Dr. Surender Kumar Kulshrestha shared information on Data Analysis using SPSS. The afternoon session was conducted by Prof. & Director, Sumit Shrivastava, Dept of Information Technology, Manipal University, Jaipur. The participants were made familiar with R programming (R studio) that included hands on practice on classifiers – Linear and Logistic regression.

Dr. Ruchi Kawatra Associate Professor in Computer Science & Engineering at SRM University Delhi-NCR. She apprised the participants of the usage of data visualization in R language

Dr Clare Walsh, Head of Education, Institute of Analytics, London, UK. She explained the usage of Data Analysis not just for the big giants like Google or Facebook, but also for small businesses, retail companies, in medicine, and even in the world of sports.



Learning Outcome:

1. Students will develop the ability to select appropriate research methods for conducting empirical research.
2. Select appropriate statistical tool for the analysis.
3. Interpret data using SPSS and R Programming.

2020-21



*Sophia Girls' College, Ajmer
(Autonomous)*

**International Webinar
on**

*"Impact of Digital Threats and
Cyber Risk During Covid-19"*

*24th and 25th July, 2020
4:00pm - 6:00pm*



**Organised by
DEPARTMENT OF COMPUTER SCIENCE**

Link for Registration : <https://tinyurl.com/y46k65ta>

Report

Name of the Department: Computer Science

Name of the Activity: Two Day International Webinar - “**Impact of Digital Threats and Cyber Risk During COVID-**

19” Date: 24th& 25th July, 2020

Total Number of the Students: 629

Webinar Platform: Google Meet

Resource Person:

- Prof. Pastor Reglos Arguelles Dean College of Computer Science, University of Perpetual Help, Philippines.□
- Dr. Sujala D. Shetty, Asst. Prof. Dept. of Computer Science, BITS Pilani Dubai Campus□
- Mr. C.B. Sharma Retd. IPS Founder and CEO DR CBS Cyber Security Services LLP□
- Dr. Priyanka Sharma Prof. Dean Research and Publication Raksha Shakti University Pioneering Security and Police University of India□

Report:The Department of Computer Science organized a Two Day International Webinar on “**Impact of Digital Threats and Cyber Risk During COVID-19” organized by Computer Science Department on 24th& 25th July, 2020 at 4:00 pm (Online)**. The resource person enlighten the budding minds in the field of Digital Threats and Cyber Risk with his presentation on the use and importance of social media and how going digital can impact your professional and personal life. The Workshop emphasized that the technological advancement is inevitable because it is the need of the time and has numerous advantages in our daily life along with the dark side of negative social impact which we have to manage at every level of our life.

Learning outcomes:

1. Identify some of the factors driving the need for network security.
2. Define the terms vulnerability, threat and attack.
3. Identify physical points of vulnerability in simple networks

2019-20

Eminent Speakers



Mr. Tarkeshwar Shrimali
Global Technical Architect,
zCloud Center of Competency at
IBM, Coppel, Texas, US



Prof. Ashok R. Patel
Florida Polytechnic University,
Florida



Mr. Hailay Beyene Berhe
Aksum University, Ethiopia



Prof. Dr. G. R. Kulkarni
Shivaji University, Kolhapur



Prof. Tapan Gandhi
IIT Delhi, New Delhi



Dr. Manas Patra
Central University of Rajasthan
Bandar Seendri, Kishangarh



Mr. Akhilesh Kumar
DesignTech Systems Ltd.,
New Delhi

Advisory Committee

- Prof. Ashok R. Patel
Florida Polytechnic University, Florida
- Prof. Dharm Singh Jat
University of Namibia, Namibia
- Dr. Sanjeev Kumar Padmanaban
Aalborg University, Denmark
- Prof. Lalit Kumar Awasthi
Dr. B. R. Ambedkar National
Institute of Technology, Jalandhar
- Prof. N. N. Jani
Kadi Sarva Vishwavidyalaya, Gujarat
- Prof. Dr. G. R. Kulkarni
Shivaji University, Kolhapur
- Prof. Pribi Srinivas Seija
Sardar Patel University, Gujarat
- Prof. Atul Gonsai
Saurashtra University, Rajkot
- Prof. Kumkum Garg
Bhartiya Skill Development University, Jaipur
- Prof. C. P. Katti
Jawaharlal Nehru University, New Delhi
- Dr. Bharat Singh Deora
Rajasthan Vidyapeeth, Udaipur

Contact Details

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Sophia Girls' College, Ajmer
(Autonomous)
Mirshali, Jaipur Road,
Ajmer 305001 (Rajasthan)
e-mail :
computerscience@sophiacollegeajmer.in
Website :
www.sophiacollegeajmer.in

Two Day International Workshop

on

**"Real Life Application of
Machine Learning and Image
Processing using MATLAB"**

December 17th & 18th, 2019



Organised by

DEPARTMENT OF COMPUTER SCIENCE,
SOPHIA GIRLS' COLLEGE, AJMER
(AUTONOMOUS)

Sponsored by



Department of Science and Technology
Government of Rajasthan, Jaipur

In collaboration with



COMPUTER SOCIETY OF INDIA
UDAIPUR CHAPTER

About Sophia Girls' College, Ajmer (Autonomous)

Sophia Girls' College, Ajmer (Autonomous) is an 'W Grade Accredited Institute by NAAC (UGC) and is affiliated to Mahatma Jyotiba Phule Open University. Since 2008 the College has held a high reputation nationally and internationally for imparting quality higher education through its dedicated and conscientious staff with high academic credentials and diversity of offered courses. At the Undergraduate Level, the College offers programs in B.A, B.Sc., B.Com, BBA, BCA, B.B.S, Honours in English, Economics, Commerce and Post Graduate Programs in English, Geography, Political Science, Sociology, History, Computer Science, Chemistry and A.B.S.

To inculcate scholarly excellence and make globally competent citizens, the institution offers General, Skill Enhancement, Career Development and Foundation Courses for students. The Institution maintains building its reputation at par with international standards through its worldwide collaboration and linkages with institutes of repute.

The College has an MHRD-recognized Innovation Institute Cell. It offers Cambridge English Level Certification, Diploma in French from the French Embassy, Computer Certification Courses from IIT Mumbai, ISO and ISO Separated programs under its aegis. As an initiative towards Institutional, Social and Environmental Responsibility, the college has developed a 'Sustainable Environment' by developing Biogas, Water- Harvesting System and proudly boasts of being one of the fully solar powered campus in Rajasthan. It also has a diversity of flora and fauna on the idyllic campus. As a Girls' College the Institution is in the forefront collaborating with NGOs, Women Development Corporation and the PUCCL on gender sensitization, women empowerment and women entrepreneurship.

Location

The College is located on Jagat Road, Ajmer, Rajasthan at a distance of 2.5 km from Ajmer Bus stand and around 2.5 Km from Ajmer Railway station. It is connected to Jaipur by road through AC bus service and Rail through Shatabadi/Superfast train. The city is surrounded by the famous Aravali hills, Ajmer is internationally famous for the Lord Brahma Temple at Pushkar and Dargah Sharif at Ajmer.

About the Department

The Department of Computer Science was established in 2005 with Vocational Computer Applications and gradually grew by introducing Bachelor of Computer Application, Master of Computer Science in 2007 and Integrated MSc in 2018. The Department maintains building its reputation as one of the leading Under Graduate and Post Graduate Computer Science Departments in the nation in the areas of Computer Professionals, Web Developers and Software Engineers.

About the Workshop

The Objective of the Workshop is to enable faculty, academicians, research scholars and students to understand the workshop and user interface. This workshop is designed to impart knowledge on machine learning, image processing, computer vision and deep learning in the context of data analysis along-with training in MATLAB. MATLAB is a high-performance language for technical computing. It integrates computation, visualization, and programming in an easy-to-use environment where problems and solutions are expressed in familiar mathematical notation. It is an effective tool for data visualization and data exploration with an emphasis on understanding computational skills. MATLAB facilitates the processing of large and real data sets. MATLAB is widely available and many academic institutions use it for research as well as educational purposes. It is used as a teaching aid in Physics, Chemistry, botanomics, Quantitative Finance, Risk Management, Psychology, Neuroscience and many more.

This workshop is designed to give the participants an overview of machine learning in image processing and computer vision by expert lectures and discussions. In addition, a major portion of the workshop involves explanation and hands on exercises in MATLAB.

Registration Form

Name: Mr./Ms./Dr. _____
(in Capital Letters)

Designation: _____

Department: _____

Organization: _____

Address for Correspondence: _____

Mobile No.: _____

E-mail ID: _____

Educational Qualification: _____

Accommodation required: Yes/No

Registration Fee

Professionals/Academicians	1500/-
Students	750/-
Research Scholars	1000/-
Accommodation Fee	1200/- Per Person

Registration fee includes workshop participation kit and lunch. All the members who desire to attend the workshop must send their registration fee through any of the following modes:

- 1). Demand Draft :**
Drawn in favour of Sophia Girls' College, Ajmer payable at Ajmer. The registration fee should be sent by speed post/registered post to the following address : Principal, Sophia Girls' College, Mirshah, Jaipur Road, Ajmer 305001 (Rajasthan).
- 2). Cash/Online :**
Registration fee may be remitted by cash at College office or Online Payment may be made through the College website - www.sophiacollegeajmer.in
(Kindly bring the receipt of your online payment)
Registration fee is non refundable

PATRON
Dr. Sr. Pearl
(Principal)

CONVENER
Mr. Gautam Chaturvedi 9530259383
(Head, Department of Computer Science)

ORGANISING SECRETARY
Dr. Ritu Bhargava 9413994079

ORGANISING COMMITTEE MEMBERS
Mr. Jeetendra Mistry
Dr. Neha Sharma
Mrs. Kiran Bhagnani
Mr. Rishi Saxena
Mrs. Pooja Dixit

Report

Name of the Department: Computer Science

Name of the Activity: Two Days International Workshop on 'Real Life Application of Machine Learning and Image Processing using MATLAB'.

Date: 17th and 18th December 2019

Total Number of the Students: 152

Venue: Seminar Room & Computer Labs

Resource Person:

Mr. Tarkeshwar Shrimali(IBM technologies Florida ,USA) , Mr. Hailay Bayene Berhe(Aksum University,Ethiopia)

Report:The Department of Computer Science organized a Two Days International

Workshop on 'Real Life Application of Machine Learning and Image Processing using MATLAB on 17th and 18th December 2019 at Sophia Girls' College, Ajmer, sponsored by the Department of Science & Technology,

Government of Rajasthan, in collaboration with Computer Society of India, Udaipur Chapter. The workshop was inaugurated in a prayerful manner with the lighting of the lamp by our chief guest Smt. Meghna Choudhary (Chairwoman of Rajasthan Board of Secondary Education), and Keynote Speaker Mr. Tarkeshwar Shrimali(IBM technologies Florida ,USA), Resource Person Mr. Hailay Bayene Berhe (Aksum University, Ethiopia)our Principal Dr. Sister Pearl, Convener Mr. Gautam Chaturvedi and the Organizing Secretary Dr. Ritu Bhargava. The workshop enlightened the budding minds in the field of Machine Learning and Image Processing using MATLAB with their presentation on the use and importance of “Image Processing and Machine learning”. The Workshop emphasized that the technological advancement is inevitable because it is the need of the time and has numerous advantages in our daily life along with the dark side of negative social impact which we have to manage at every level of our life

Learning outcome:

1. Recognize the characteristics of machine learning that make it useful to real- world problems.
2. Characterize machine learning algorithms as supervised, semi-supervised, and unsupervised.
3. Effectively use machine learning toolboxes



2018-19

1. National Workshop on “Research Methodology and Data Analysis using Data Mining Tools”

Objectives of the Workshop

The objective of the Workshop is to enable student participants and research scholars to understand the workspace and user interface. This workshop is designed to impart knowledge on Research Methodology in the context of qualitative and quantitative research along with training in advanced Data mining (including Weka) across the various fields of Research.

As a discipline of Research, Technology is useful in designing the study, collection and management of data, analysis and interpretation. In this information era, a large volume of data is generated through various research activities. Most of the researchers often face difficulty in handling data, in addition to the use of suitable data mining techniques to obtain the relevant information. Data management is the primary tool to be used before data is subjected to data analysis. This training programme is designed to give the participants an overview of research methodology by expert lectures and discussions. In addition, a major portion of the programme involves explanations and hands on exercises in data analysis using Weka data mining tools.

Following are the main objectives of the proposed workshop:

- To acquaint the research scholars, faculty and students with the basics of Research Methodology.
- To update the students towards the new trends of research.
- To acquaint research scholars with appropriate selection of Data Mining tools for different types of data and methods and tools of valid and relevant data collection.
- To train the participants in the use of Data Mining techniques in data analysis in the field of Science and Social Sciences.
- To provide hands on training for the use of Weka for analysis of different types of data.

Who can attend the Workshop?

Faculty and Students of PG Colleges, Engineering Colleges, Polytechnic Colleges, Research Scholars and Industry Personnel can attend the Workshop.

Registration Fee

Teachers/Professors/Academicians 1000/-
Research Scholars/PG Students 750/-

Registration fee includes workshop participation workshop kit, breakfast and lunch. All the members who desire to attend the workshop must send their registration fee through any of the following modes:

1). Demand Draft/Banker's Cheque:
Drawn in favour of Principal, Sophia Girls' College, Ajmer payable at Ajmer. The registration fee should be sent by speed post/registered post to the following address: Principal, Sophia Girls' College, Mirshah, Jaipur Road, Ajmer (Rajasthan) 305001.

2). NEFT/RTGS to:
A/c Name : Principal Sophia Girls' College, Ajmer
Bank Name : Canara Bank
Branch Name : Sophia Sr. Sec. School, Ajmer
A/C No: 8469101512442
IFSC Code : CNR0008469
(Kindly bring the receipt of your online payment)

PATRON
Dr. Sh. Pearl
(Principal)

CONVENOR
Mr. Gautam Chaturvedi
(HOD, Department of Computer Science)

ORGANISING SECRETARY
Dr. Ritu Bhargava

ORGANISING COMMITTEE MEMBERS
Mr. Jeonendra Mishra
Mrs. Neha Sharma
Mrs. Shubha Chaturvedi
Mrs. Kiran Bhagnani
Mr. Rishi Saxena

2 DAY NATIONAL WORKSHOP

ON

“Research Methodology and Data Analysis using Data Mining Tools”

16th & 17th AUGUST 2018



ORGANISED BY
Department of Computer Science,
Sophia Girls' College, Ajmer
(Autonomous)

SPONSORED BY



Department Of Science and Technology
Government of Rajasthan, Jaipur

About the Department

The Department of Computer Science was established in 2005 and started Vocational Computer Applications and gradually grew by starting Bachelor of Computer Applications and Master of Computer Science in 2007. The Department maintains building its reputation as one of the leading under graduate and post graduate Computer Science programs in the nation in the areas of Computer Professional, Web Developers and Software Engineers.

About Sophia Girls' College (Autonomous), Ajmer

The Sophian Institution was founded in 1919 as a small Primary School to educate girls of conservative families of the time. It gradually grew from Middle to a High School and in 1947 was raised to the intermediate level. The institution acquired the Degree status in 1959 so as to provide Higher Education facilities for women. Today the institution is a full-fledged Autonomous W' Grade College permanently affiliated to Maharshi Dayanand Saraswati University, Ajmer with Faculties of Arts, Science, Commerce, Management (BBA), Computer Application (BCA), Honours in English and Economics, Post Graduation in English, Political Science, Sociology, Geography, Chemistry, ABST and Computer Science.

Location

The College is located on Jaipur Road, Ajmer, Rajasthan at a distance of 1.5 Km from Ajmer bus stand and around 2.5 km from Ajmer Railway station. It is connected to Jaipur by Road through AC bus service and Rail through Shatabadi/Superfast trains. The city is surrounded by the famous Aravali Hills. Ajmer is internationally famous for Lord Bhrama temple at Pushkar, Ajmer and Dargah Sharif at Ajmer.

Vision

The Congregation of the Mission Sisters of Ajmer (a Sisterhood of Indian women) imbued with the love of Christ and inspired by Mary-Seat of Wisdom - the role model of all women, are committed to work in the field of Higher Education and to uplift the girl child and thus empower her by providing a holistic development to make an effective contribution to the community, society and nation.

Mission

We inspire young women to achieve academic excellence, preparing them for their role in the future as career women, wives and mothers. We create an atmosphere of respect and concern for the welfare of students. We lead them to know GOD through the pursuit of truth and knowledge of self, nurturing them to become beacons of light and ambassadors of harmony.

REGISTRATION FORM

Sophia Girls' College, Ajmer (Autonomous)
Organizes a
Two Day National Workshop
On
“Research Methodology and Data Analysis using Data Mining Tools”
16th & 17th August 2018
Sponsored by
Department Of Science and Technology
(Government of Rajasthan)

Name: Mr./Ms./Dr.
(In Capital Letters)

Designation:

Department:

Organization:

Address for Correspondence:

Mobile No.:

E-mail ID:

Educational Qualification:

Accommodation Required: Yes/No

Signature & Date:

Accommodation and Travel

Accommodation will be provided on the basis of availability in guest house/hotels on payment basis. No TA/DA will be provided to attend the program.

For Online Registration
www.sophiacollegeajmer.in

Reporting Date, Time & Venue:
16th & 17th August, 2018, 9.00 a.m. onwards
Sophia Girls' College, Ajmer (Autonomous)

CONTACT DETAILS

Please feel free to contact the executive members of the Workshop for any queries through:

Website
www.sophiacollegeajmer.in

E-Mail
computerscience@sophiacollegeajmer.in

Contact No. 8145-2427243

Mr. Gautam Chaturvedi: 9520259183
Dr. Ritu Bhargava: 9413994079
Mrs. Neha Sharma: 7737618542
Mrs. Shubha Chaturvedi: 7976024258
Mrs. Kiran Bhagnani: 9929824926
Mr. Rishi Saxena: 8208837476

Name of the Department: Computer Science

Date: 16th and 17th August 2018

Total Number of the Students: 101

Venue: Seminar Hall, Sophia Girls' College (Autonomous), Ajmer

Resource Persons:

Prof. Lalit Kumar Awasthi, Director B.R. Ambedkar NIT, Jalandhar.

Prof. N.N. Jani, Director SKPIMCS, Kadi SarvaVishavidyalaya, Gandhinagar.

Prof. Sumit Srivastava, Head Dept. of IT, Manipal University, Jaipur.

Dr. R. P. Aharwal, Asst. Prof. Dept. of Mathematics & Computer Applications, Govt. P.G. College, Damoh.

Report:

The Department of Computer Science organized a two day National Workshop on “Research Methodology and Data Analysis using Data Mining Tools” on 16th and 17th August 2018 at Sophia Girls' College, Ajmer, sponsored by the Department of Science and Technology, Government of Rajasthan Jaipur. The workshop was inaugurated in a prayerful manner with the lighting of the lamp by our chief guest and Keynote Speaker Prof. Lalit Kumar Awasthi, Resource Person Prof. N.N. Jani, our Principal Dr. Sister Pearl, Convener Mr. Gautam Chaturvedi and the Organizing Secretary Dr. Ritu Bhargava. Our keynote speaker Prof. Lalit Kumar Awasthi Director B.R. Ambedkar National Institute of Technology, Jalandar (Punjab) has enlighten the budding minds in the field of research with his presentation on the use and importance of “Research Methodology and Data Analysis using Data Mining Tools”. The Workshop emphasized that the technological advancement is inevitable because it is the need of the time and has numerous advantages in our daily life along with the dark side of negative social impact which we have to manage at every level of our life

Learning Outcomes:

1. Understanding the limitations of particular research methods.
2. Develop skills in qualitative and quantitative data analysis and presentation.
3. Develop advanced critical thinking skills.



2. Two Day National Workshop on IOT-IGNITE

 <p>For Online Registration www.sophiacollegeajmer.in</p> <p>Reporting Date, Time & Venue: 22nd & 23rd February, 2019, 9.00 a.m. onwards Sophia Girls' College, Ajmer (Autonomous)</p>	REGISTRATION FORM	2DAY NATIONAL WORKSHOP ON IOTignite 22ND & 23RD FEBRUARY 2019
CONTACT DETAILS <p>Please feel free to contact the executive members of the Workshop for any queries through:</p> <p>Website www.sophiacollegeajmer.in</p> <p>e-mail computerscience@sophiacollegeajmer.in</p> <p>Contact No. 0145-2427243</p>	<p>Sophia Girls' College, Ajmer (Autonomous) Organizes a Two Day National Workshop on</p> <h1>IOTignite</h1> <p>22nd & 23rd February 2019</p>	 <p>Organised by DEPARTMENT OF COMPUTER SCIENCE, SOPHIA GIRLS' COLLEGE, AJMER (AUTONOMOUS)</p> <p><i>In collaboration with</i></p>
Address for Correspondence <p>Mr. Gautam Chaturvedi Convener Sophia Girls' College, Ajmer (Autonomous) Mobile : 9530259383 Dr. Ritu Bhargava Organising Secretary Sophia Girls' College, Ajmer (Autonomous) Mobile : 9413994079</p>	<p>In Collaboration with Computer Society of India</p> <p>Name: Mr./Ms./Dr. (In Capital Letters)</p> <p>Designation:</p> <p>Department:</p> <p>Organization:</p> <p>Address for Correspondence:</p> <p>Mobile No.:</p> <p>E-mail ID:</p> <p>Educational Qualification:</p> <p>Accommodation Required: Yes/No</p> <p>Signature & Date:</p>	<p><i>In collaboration with</i></p>  <p>COMPUTER SOCIETY OF INDIA UDAIPUR CHAPTER</p>

About Sophia Girls' College, Ajmer (Autonomous)

Sophia Girls' College, Ajmer (Autonomous) functions under the management of the Mission Sisters of Ajmer, a Sisterhood of Indian Women, dedicated to God and this enables them to impart a liberal and enlightened education in the upliftment of humanity.

The Sophia Institution was founded in 1910 as a small Primary School towards educating girls from conservative families of the time. Gradually, it grew to a Middle-level and subsequently to a High-school; and in 1942 it was raised to Intermediate-level. Sophia College attained Degree Status in the year 1959 towards imparting higher education to the women community. Today, it has attained an Autonomous Institution status, permanently affiliated to Maharshi Dayanand Saraswati University, Ajmer. The facilities at Under Graduate level include – Arts, Science, Commerce, Management, Computer Applications, Honors in English and Economics, BLS; and at Post Graduate level English, Computer Science, Geography, Political Science, Sociology, Chemistry and Commerce. Diploma Courses, Skill Enhancement and Career Development Courses and various outreach programs have been introduced by the college in every academic session. The lush green college campus spread over an area of 9.9 acres, has beautiful gardens, sports facilities, hostel, academic and administrative blocks.

Location

The College is located on Jaipur Road, Ajmer, Rajasthan at a distance of 13 Km from Ajmer bus stand and around 2.5 Km from Ajmer Railway station.

It is connected to Jaipur by road through AC bus service and Rail through Shatabadi/Superfast trains. The city is surrounded by the famous Aravalli Hills. Ajmer is internationally famous for the Loni Brahma Temple at Puthkar and Dargah Sharif at Ajmer.

About the Department

The Department of Computer Science was established in 2005 with Vocational Computer Applications and gradually grew by introducing Bachelor of Computer Applications and Master of Computer Science in 2007. The Department evolutions building its reputation as one of the leading Under Graduate and Post Graduate Computer Science Departments in the Nation in the areas of Computer Professionals, Web Developers and Software Engineers.

Objectives of the Workshop

The Internet of Things (IoT) is expanding at a rapid rate, and it is becoming increasingly important for professionals to understand what it is, how it works, and how to harness its power to improve business. In the workshop, we will examine the concept of IoT. We will explore the "things" that make up the Internet of Things, including how these components are connected together, how they communicate, and how they add value to the data generated. We will highlight and emphasize how IoT optimizes processes and improves efficiencies in business, education etc.

This workshop aims at providing an opportunity for participants to enrich their knowledge and skill in developing various solutions for solving engineering problems in the society. This program serves as a platform for Research Scholars, Faculty, Engineers and Students to interact on cutting edge technologies in IoT.

The Internet of Things (IoT) has evolved from the convergence of wireless technologies, microelectromechanical systems (MEMS) and the Internet. By connecting "things" in the real world such as cars, buildings, and industrial equipment, IoT promises to revolutionize how we live and work.

IoT is creating a giant network where all the devices are connected to each other and providing them with the capability to interact with each other. This will drive the automation to the next level where devices will communicate with each other and make decisions on their own without any human intervention. Every session of the workshop will comprise of awareness of Technology, Application Domain and Demonstrations of Small Application.

Following are the main objectives of the proposed workshop:-

- To educate and train the Faculty/Researchers/PG students about IoT.
- To state the development issues and security for providing the valuable information on emerging application and market trend in the field of IoT.
- To acquaint the participants with their IoT Motherboard.
- To enhance their knowledge about Wireless Interface and controlling things.
- To equip them to construct Real time cloud applications.
- To introduce them to sensor devices
- To provide hands-on-training for the use of IoT projects.

Who can attend the Workshop?

Faculty, Students, Research Scholars and Industry Personnel can attend the Workshop.

Registration Fee

Professionals/Academicians	1000/-
Research Scholars/Students	750/-
Accommodation Fee	1200/- Per Person

Registration fee includes workshop participation kit and lunch. All the members who desire to attend the workshop must send their registration fee through any of the following modes:

1). Demand Draft/Banker's Cheque:

Drawn in favour of Principal, Sophia Girls' College, Ajmer payable at Ajmer. The registration fee should be sent by speed post/registered post to the following address: Principal, Sophia Girls' College, Mirshahi, Jaipur Road, Ajmer (Rajasthan) 305001.

2). NEFT/RTGS:

A/c Name : Principal Sophia Girls' College, Ajmer
Bank Name : Canara Bank
Branch Name : Sophia Sr. Sec. School, Ajmer
A/c No. 84691012442
IFSC Code : CNRB0008469
(Kindly bring the receipt of your online payment)
Registration fee is non refundable

PATRON

Dr. Sr. Pearl
(Principal)

CONVENER

Mr. Gautam Chaturvedi
(Head, Department of Computer Science)

ORGANISING SECRETARY

Dr. Ritu Bhargava

ORGANISING COMMITTEE MEMBERS

Mr. Jeetendra Mistry
Mrs. Neha Sharma
Mrs. Shubha Chaturvedi
Mrs. Kiran Bhagnani
Mr. Rishi Saxena
Mrs. Nidhi Yadav

Name of the Department : Computer Science

Date:22nd and 23rd February 2019

Total Number of the Students:145

Venue : Seminar Hall , Sophia Girls' College (Autonomous), Ajmer

Resource Persons:

Prof. N. N. Jani, Director SKPIMCS, KadiSarvaVishwavidyalaya, Gandhinagar.

Prof. Kumkum Garg, Dean, Department of Informatics and Automation, BSDU, Jaipur.

Report : The Department of Computer Science in collaboration with Computer Society of India, Udaipur Chapter organized a Two Day National Workshop on IOT-IGNITE from 22nd and 23rd February

The workshop was inaugurated in a prayerful manner with the lighting of the lamp by Chief Guests Prof. Kumkum Garg Dean, Department of Informatics and Automation, Bhartiya Skill Development University , Jaipur the Guest of Honor Prof. N. N. Jani ,Director SKPIMCS KadiSarva Vishwavidyalaya, Dr. Sister Pearl, Principal Sophia Girls' College Ajmer (Autonomous), Mr. Gautam Chaturvedi Convener of the workshop and Dr. Ritu Bhargava , Organizing Secretary of the workshop.

Speaking on the occasion, Prof. Kumkum Garg enlightened the budding minds about IOT and skill based education. The cornerstone of this session was IOT and how big data is generated of which only 1% is useful, and how the security of this data is a challenge.

Prof. N. N. Jani introduced the “IOT Domain Ignite”. He changed the phrase “Teach me and I will learn” to “Involve me and I will learn”. Prof. Arun K. Pujari, Vice Chancellor of Central University of Rajasthan emphasized that technological advancement is inevitable because it is the need of the time and has numerous advantages in our daily life.

Learning Outcomes:

4. Understand the significance of the Internet of Things.
5. Discuss the architecture, operation and business benefits of an IoT solution.
6. Explore the relationship between IoT, cloud computing, and big data.



