1. Students Participation in Departmental Activities:

During the academic session **2023-24**, Department of Computer Science has organized following Co-Curricular activities for the students.

- **Seminar:**

During this academic session, students of B.Sc. Part II, III and M.Sc. Part I, II delivered seminar on recent topics to fulfill internal activity of integral part of curricula laid down by SGBA University Amravati during all the semesters. The concern teachers gave their valuable guidance to the students in order to prepare their seminar topics. Online facility has been made available to all students during presentation of seminar. Dr. A. B. Kadam - HOD, Dr. M. E. Jadhav, Dr. S. S. Gaikwad guided the students.

- **National Level Workshop On The Cult Of Terror, Along with Cyber Crimes:**

During this academic session 2023-24, our department has been organized For the Workshop the resource person was **Dr. Shobha Baviskar**, **Assistant Professor, Govt. Institute of Forensic Science, Aurangabad.** Principal and Patron for the **National level workshop on "The Cult Of Terror, Along with Cyber Crimes".** Dr. M. T. Nikam who inspires us always and supports for successful conduction of the workshop. IQAC Coordinator Dr. V. U. Pochhi was the inaugural guest for the workshop, she has motivated and inspired us to organize such type of events.

The National level workshop on **The Cult Of Terror, Along with Cyber Crimes** was conducted by the Department of Computer Science. Dr. A. B. Kadam HOD, Convener of this workshop. Dr. Mukti E. Jadhav and Dr. Sonali Gaikwad were the organizing Secretary for the workshop. Departmental members of Mr. P. S. Sonune and Mr. S. A. Chavan assisted in the success of the workshop.

**The participant's response is as follows:**

 Offline Participants: -

No.of Participants	Name of the College

	Shivaji College Chikhli	Jijamata MV. Buldhana	Shri Vyanktesh College D. Raja	G.S. College Khamgaon	Shri Shivaji College,Akola	Deogiri College, Aurangabad
94	**84**	**02**	**02**	**02**	**02**	**02**

Online Participants: -

No.of Participants	Name of the State					
	Maharashtra	Gujarat	Madhya Pradesh	Andhra Pradesh	Himachal Pradesh	Karnataka
120	**103**	**07**	**01**	**04**	**01**	**04**
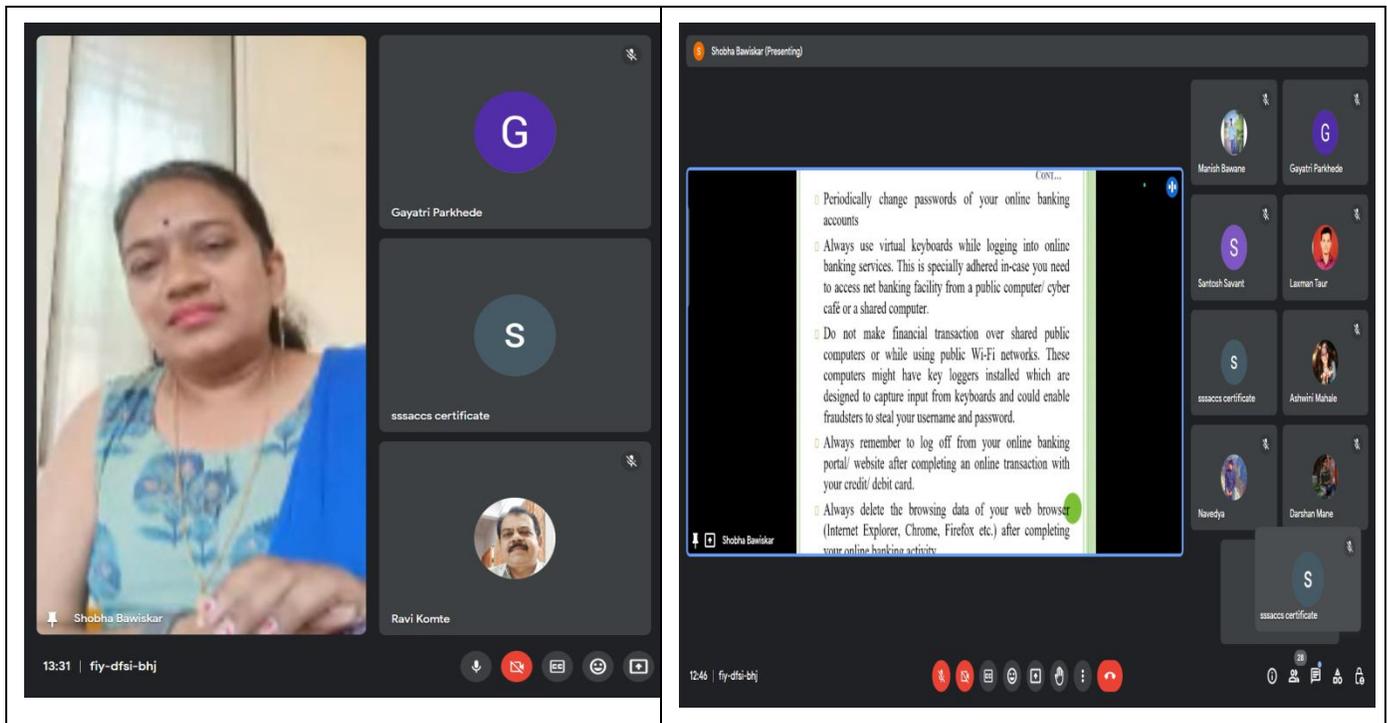
Dr. Shobha Baviskar delivered a presentation on "The Cult Of Terror, Along with Cyber Crimes" Date:23 August 2023

Chikhli, Maharashtra, India
9727+7V7, MH SH 176, Gandhi Nagar, Chikhli, Maharashtra 443201, India
Lat 20.350434°
Long 76.264957°
23/08/23 11:59 AM GMT +05:30

Dr. A. B. Kadam Guided the participants in the "The Cult Of Terror, Along with Cyber Crimes"
Date:23 August 2023

Evidence of Success: Newspaper Cuttings

चिखली: संगणक शास्त्र या विभागातर्फे आयोजित कार्यशाळेला उपस्थित मान्यवर.

श्री शिवाजी महाविद्यालयात राष्ट्रीय कार्यशाळा संपन्न

चिखली, ता. २५ : स्थानिक चिखली येथील श्री शिवाजी विज्ञान व कला महाविद्यालयात संगणकशास्त्र विभागातर्फे द कल्ट ऑफ टेरर अलॉंग विथ सायबर क्राईम या विषयावर कार्यशाळा घेण्यात आली. अध्यक्षस्थानी महाविद्यालयाच्या प्रप्राचार्य प्रा. डॉ. मीना निकम होत्या. कार्यशाळेच्या उद्घाटनप्रसंगी डॉ. वनिता पोच्छि, संतोष कुंभारे आणि डॉ. विजयश्री हेमके यांची प्रमुख उपस्थिती होती. डॉ. शोभा बाविस्कर, सहाय्यक प्राध्यापक, शासकीय न्याय विज्ञान संस्था, औरंगाबाद या प्रमुख मार्गदर्शक म्हणून लाभल्या होत्या.

डॉ. अविनाश कदम संगणकशास्त्र विभागप्रमुख व कार्यशाळेचे निमंत्रक यांनी कार्यक्रमाची रुपरेषा सांगून सायबर सिक्युरिटी ही संकल्पना समाजात किती महत्वाची आहे यावर सखोल मार्गदर्शन केले. कार्यमाला भारतातून २०० जणांनी आभासी तसेच प्रत्यक्ष

सहभाग नोंदविला होता. सद्यपरिस्थितीत सायबर सिक्युरिटी याविषयी समाजात जागरूकता निर्माण करणे किती महत्वाचे आहे यावर डॉ. वनिता पोच्छि यांनी काय करता येईल यावर प्रकाश टाकला.

विद्यार्थ्यांनी सायबर सिक्युरिटी विषयात संशोधन करुन समाज उपयोगी कार्य करावे असा महत्वाचा संदेश कार्यशाळेच्या अध्यक्षा आणि महाविद्यालयाच्या प्रप्राचार्य डॉ. मीना निकम यांनी दिला. या कार्यक्रमात संगणकशास्त्र विद्यार्थी संघटनेचा उद्घाटनाचा कार्यक्रम देखील यशस्वीरित्या पार पडला.

सूत्रसंचालन डॉ. मुक्ती जाधव, आभार डॉ. सोनाली गायकवाड यांनी मानले. कार्यक्रमाच्या यशस्वीतेसाठी प्रदीप सोनुने, सचिन चव्हाण व संगणक विभागाच्या सर्व विद्यार्थ्यांसोबतच महाविद्यालयातील इतर विद्यार्थ्यांनी परिश्रम घेतले.

दैनिक **किसान सभा**

ई पीक पाहणी करण्यासाठी शेतकरी बांधवाना आवाहन

लोकशाही जिवंत ठेवण्याची ताकद फक्त काँग्रेस मध्येच : राहुल बोंद्रे

श्री शिवाजी महाविद्यालयात द कल्ट ऑफ टेरर अलॉंग विथ सायबर क्राईम्स या विषयावर राष्ट्रीय कार्यशाळा संपन्न

..पान नं.१वरुन श्री शिवाजी महाविद्यालयात...

संगणक शास्त्र विभाग प्रमुख व कार्यशाळेचे निमंत्रक यांनी कार्यक्रमाची रूपरेषा सांगून सायबर सिक्युरिटी ही संकल्पना समाजात किती महत्वाची आहे यावर सखोल मार्गदर्शन केले या कार्यमाला संपूर्ण भारतातून २०० जणांनी आभासी तसेच प्रत्यक्ष सहभाग नोंदविला होता. सद्यपरिस्थितीत सायबर सिक्युरिटी या विषयी समाजात जागरूकता निर्माण करणे किती महत्वाचे आहे यावर डॉ.वनिता पोच्छि यांनी काय करता येईल यावर प्रकाश टाकला आणि कार्यशाळेचे उद्घाटन केले.

विद्यार्थ्यांनी सायबर सिक्युरिटी विषयात संशोधन करून समाज उपयोगी कार्य करावे असा महत्वाचा संदेश कार्यशाळेच्या अध्यक्षा आणि महाविद्यालयाच्या प्र.प्राचार्य डॉ. मीना निकम यांनी दिला. या कार्यक्रमात संगणक शास्त्र विद्यार्थी संघटनेचा उद्घाटनाचा कार्यक्रम देखील यशस्वीरित्या पार पडला.

या कार्यक्रमाचे सूत्रसंचालन डॉ. मुक्ती जाधव, कार्यक्रम सचिव यांनी यशस्वीरित्या पार पाडले. आभार प्रदर्शन डॉ.सोनाली गायकवाड,कार्यक्रम सचिव आणि तांत्रिक सचिव म्हणून कार्य पार पाडले. कार्यक्रमाच्या यशस्वीतेसाठी श्री. प्रदीप सोनुने,श्री सचिन चव्हाण व संगणक विभागाच्या सर्व विद्यार्थ्यांसोबतच महाविद्यालयातील इतर विद्यार्थ्यांनी देखील कार्यक्रमाच्या यशस्वीतेसाठी अधक परिश्रम घेतले.

➢ **National Level Workshop on "Creation and Protecting Intellectual Property in Academia"**

During this academic session 2023-24, our department has been organized for the Workshop the resource person was **Dr. Pramodini Dange, Assistant Professor, STES's Sinhgad Institute of Business Administration and Research, Kondhwa, Pune.** Principal and Patron for the **National level workshop on "Creation and Protecting Intellectual Property in Academia".** Prof. (Dr.) M. T. Nikam who inspire us always and support for successful conduction of the workshop. IQAC Coordinator Prof. (Dr.) V. U. Pochhi was the inaugural guest for the workshop, she has motivated and inspired us to organize such type of events.

The National level workshop on **"Creation and Protecting Intellectual Property in Academia"** was conducted by the Department of Computer Science. Dr. A. B. Kadam HOD, Convener of this workshop. Dr. M. E. Jadhav and Dr. S. S Gaikwad were the organizing Secretary for the workshop. Departmental members of Mr. P. S. Sonune and Mr. S. A. Chavan assisted in the success of the workshop.

The participant's response is as follows:

Online Participants: -

No. of Participants	Name of the State												
	Maharashtra	AP	Assam	Bangladesh	Bihar	Chhattisgarh	Delhi	Duabi	Gujarat	Karnataka	MP	Tamil Nadu	Yeman
359	**312**	**05**	**01**	**01**	**06**	**02**	**01**	**01**	**03**	**20**	**01**	**05**	**01**

Evidence of Success: Photographs
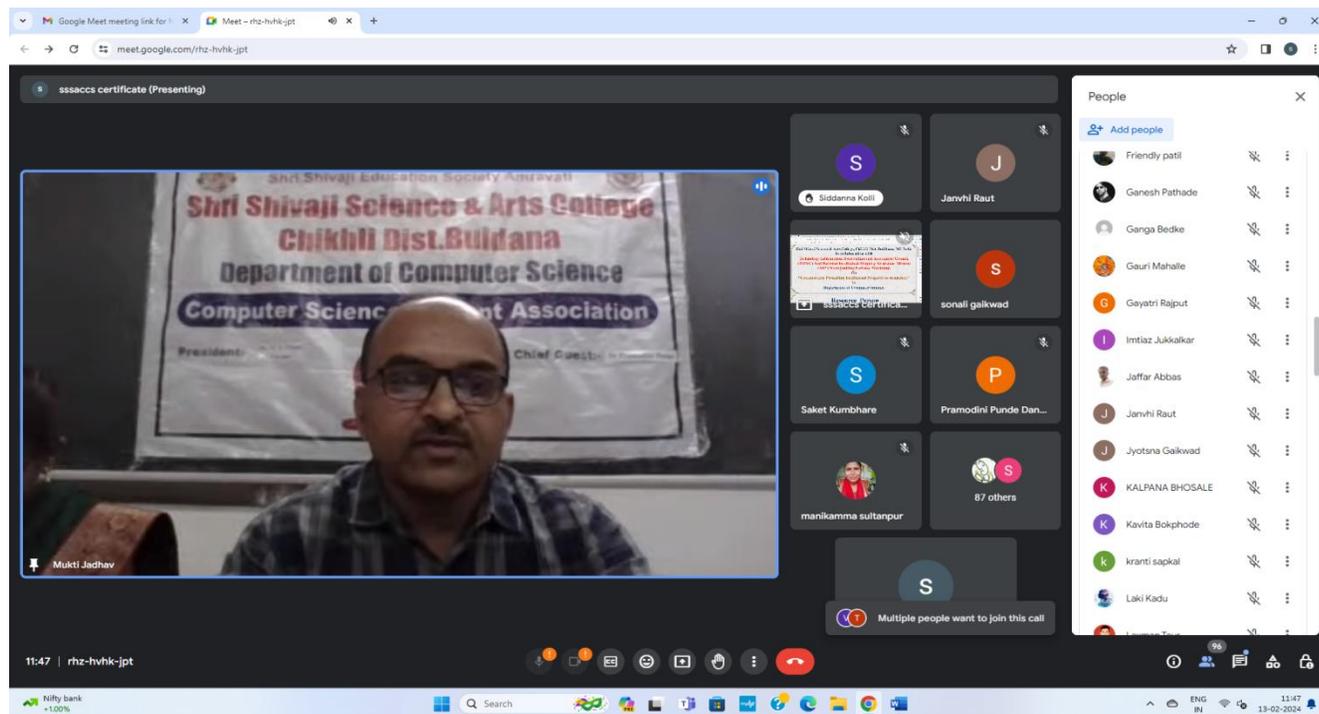
Dr. Pramodini Dange, Assistant Professor, STES's Sinhgad Institute of Business Administration and Research, Kondhwa, Pune Guided the participants in the **"Creation and Protecting Intellectual Property in Academia" Date:**13 Feb. 2024

Evidence of Success: Newspaper Cuttings

- **Certificate Course in MS-Office Suite & Introduction to Internet Academic Year 2023-24**

Department of Computer Science of Shri Shivaji Science College Chikhli, organized Certificate Course in MS-Office Suite and Introduction to Internet during 17thJanuary 2024 to 30th January 2024. About 60 Undergraduate and Postgraduates students from our colleges are registered for this program. The first session of the program starts at 12:00 P.M. and President of the program was Prof. (Dr.) M. T. Nikam, Principal of our college. In Inauguration, Introductory speech by Dr. A. B. Kadam explained the importance of the course awareness and proficiency and advanced tricks and ideas in MS-Office Suite. At the end of the inauguration program Dr. M. E. Jadhav had given the vote of thanks.

During the certificate course work which started from 17th Jan 2024 to 30th Jan 2024 students learned MS-Word, MS-Excel, MS-PowerPoint from MS-Office Suite and gained the knowledge about Introduction to Internet. Overall, all in one package program was done by all students/participants in which they have submitted assignments and successfully completed the examination with good marks. On 17th January 2024 at 12.00 P.M. Valedictory program was started by department of computer science where HOD Dr. A. B. Kadam had given whole summery of the certificate course and motivate students

to complete the course by explaining its importance , outcome and future . At last Vote of thanks given by Dr. S. S. Gaikwad.

- **Remedial Coaching For P.G. Students:**

Department of Computer Science of Shri Shivaji Science College Chikhli, organized Remedial Coaching for M.Sc. Students during 04-09-2023 to 11-09-2023. Every batch of new students in computer science department is conducting the remedial coaching classes for M.Sc. I year students. The head of the department along with the department colleagues interacts with the student in order to identify areas of student potential as well as areas where remedial assistance is required. The remedial programme has conducted at the beginning of every semester regarding improvement student's Basic concepts.

- **Poster Presentation Competition**:

The department of computer science, conducted **Poster Presentation Competition** on **13th March 2024.** Prof. Dr. M. T. Nikam Principal was the Inaugurator & President of this competition as well as Prof. Dr. S. L. Kumbhare & Dr. V. M. Hemke were the judged the competition.

Poster Presentation Competition on 13th March 2024.

- **Participation of Students in Academic/ Research Activities:**
- **Avishkar:** Ku. Anjali Jadhav & Sakshi Tupe has been participated at district level Avishkar competition.
- **Participation of Teachers in Academic/ Research Activities:**

During the academic session **2023-24**, teachers of our department have enthusiastically participated in many academic/research activities.

- **Dr. A. B. Kadam** has been **Edited Book** A Textbook of **B.Sc. Second Year Sem-III** in Computer Science "Networking and Web Technology", Dnyanpath Publication Amravati. ISBN No: 978-81-19435-87-6

- **Dr. A. B. Kadam** has been published paper entitled wit**h** "Detecting Sign Language for the Deaf and Mute Using Neural Networks. **July- September, 2023, Volume 11, Issue 3,** The International Journal of Indian Psychology **[DIP: 18.01.391.20231103, DOI: 10.25215/1103.391] ISSN 2348-5396 (Online) |**

- **Dr. A. B. Kadam**, IoT Based- Soil Salinity Mapping and Smart Crop Recommendation System. National Conference on "Recent Advancements in Science &Technology, ISBN : 978-81-19931-25-5

- **Dr. A. B. Kadam**, "IoT-based Automated Smart Irrigation System Using Sensors for Farming". National Conference on "Recent Advancements in Science &Technology ISBN : 978-81-19931-25-5

- **Sonali S. Gaikwad** has Published paper, Novel Technique for Generating Questions Automatically from Marathi Language Resources."246-248, Journal of Information and Computational Science", DOI:10.12733.,JICS.2023. V1316.535569.79725, UGC Journal.

- **Sonali S. Gaikwad** has Published paper, Retreating Nouns for Better Feature Extraction for Summarization: In Context with Narratives, International Conference on Electrical, Computer, Communications and Mechatronics Engineering – 2023, ISSN 1803-7232, IEEE Xplore.589

- **Dr. M.E. Jadhav** et.al has published paper "Hybrid Models Based on Fusion Features of a CNN and Handcrafted Features for Accurate Histopathological Image Analysis for Diagnosing Malignant Lymphomas", MDPI, Diagnostics 2023, 13, 2258. https://doi.org/10.3390/diagnostics13132258 https://www.mdpi.com/journal/diagnostics, ISSN:2075-4418

- **Dr. M.E. Jadhav** et.al has published paper "Glaucoma Detection Through Optical Coherence Tomograph Images", Atlantis Press, Springer Nature, Series: Advances in Computer Science Research, ICAMIDA 2022, ACSR 105, pp. 810–819,

- **Dr. M.E. Jadhav** et.al has published paper," Diagnosing Microscopic Blood Samples for Early Detection of Leukemia by Deepand Hybrid Learning Techniques", Atlantis Press, Sringer Nature, Series:Advances in Intelligent Systems Research, https://doi.org/10.2991/978-94-6463-196-8_4,

- **Dr. M.E. Jadhav** et.al has published paper "Automated Detection of Tuberculosis Based on Cantilever Biosensor", Atlantis Press, Sringer Nature, Series: Advances in Intelligent Systems Research, https://doi.org/10.2991/978-94-6463-196-8_3,

- **Dr. M.E. Jadhav** et.al has published paper "A CNN-LSTM Model for Arabic Sign Language Recognition", Atlantis Press, Sringer Nature, Series:Advances in Intelligent Systems Research, https://doi.org/10.2991/978-94-6463-196-8_3510 Aug 2023, ISSN1951-6851, Vol 176, PP. 459–470

- **Dr. M.E. Jadhav** et.al has published paper" Deep Learning Algorithms for Behavioral Analysis in Diagnosing Neuro developmental Disorders", MDPI, Mathematics 2023,

- **Dr. M.E. Jadhav** et.al has published paper "Detecting Sign Language for the Deaf and Mute Using Neural Networks", The International Journal of Indian Psychology, ISSN 2348-5396 (Online) | ISSN: 2349-3429 (Print)

- **Dr. M.E. Jadhav** et.al has published paper "Revealing sign language for individuals who are deaf and mute through the utilization of neural networks", Albaydha University Journal, DOI: https://doi.org/10.56807/buj.v5i5.539 ISSN(s): 2709-9695,

- **Dr. M.E. Jadhav** et.al has published paper "American gesture Language Detection Using Transfer Learning and Efficientnet B1 Technique", IEEE- Xplore | DOI:10.1109/ICRASET59632.2023.10420414, E-ISBN:979-8-3503-0692-7

- **Dr. M.E. Jadhav** et.al has published paper "Real-time System for Translating American Sign Language to Text Using Robust Techniques", IEEE- Xplore | DOI:10.1109/ICRASET59632.2023.10420110, E-ISBN:979-8-3503-0692-7

- **Details of Patent/ Copyright: Dr. M. E. Jadhav**

Patent Type	Patent Name	Patent No	Status	Reg. Date	Award Date
Indian	A Patent Analysis of Research Trends in Eye Tracking Technology	L-135355/2023	Registered Copyright	14-03-2023	03/11/2023
Indian	Micro-Cantilever Biosensor	399059-001	Granted	02/11/2023	11/01/2024
Indian	Microelectromechanical (MEMS) Cantilever Biosensor System	202421003235	Published	17/01/2024	09/02/2024

Articles/Chapters published in Book: Dr. M. E. Jadhav

Sr. No.	Title & Page No.	Book Title, Editor & Publisher	ISSN/ISBN No.	Authors	Whether Main authors
1	Chapter in Book- Computer Unit 5	Sant Gadge Baba Amravati University, Computer Science Teacher's Association, A text book of B.Sc Second year course in Computer Science Networking and Web Technology Semester-III, Dnyanpath Publication	ISBN:978-81-19435-87-6	Mukti E. Jadhav	Main Author

(Dr. A. B. Kadam)