

CHITKARA
UNIVERSITY



Nouvelle Liberation

Volume 9, Issue 4

Department of Computer Applications
Chitkara University Institute of Engineering & Technology
Chitkara University, Punjab

Newsletter December, 2023

This newsletter has been edited and published by the Department of Computer Applications, Chitkara University, Punjab, India

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CRITICAL THINKING ON ISTQB FOUNDATION LEVEL CHAPTER SERIES (CHAPTER-1) SEPTEMBER 25, 2023

The CSI Student Chapter, supervised by the Department of Computer Applications at Chitkara University in Punjab, arranged an expert lecture on the topic of "Critical Thinking on ISTQB Foundation Level (CTFL) Chapter Series (Chapter-1)". The speakers for the session were Mrs. Smitha Menon, a seasoned consultant in software verification, and Dr. Jaswinder Singh, an Associate Professor in the Department of Computer Applications at Chitkara University, Punjab. Dr. Jaswinder explained the objective of the ISTQB series and highlighted the benefits of receiving an ISTQB certification. He advised students to seriously consider acquiring an ISTQB certification, as it can significantly improve their chances of finding employment. During the lesson, Mrs. Samitha elucidated the precise distinction between testing and debugging, and she also emphasized the need of testing in different projects. She explored seven fundamental concepts of testing, delving into the realms of psychology and the testing procedure. In addition, she imparted her expertise in software testing and product creation to the students. She explored multiple situations in which she prompted the pupils to analyze the necessity of testing.

CHITKARA UNIVERSITY **itb INDIAN TESTING BOARD** **INSTITUTIONS INNOVATION COUNCIL**

CRITICAL THINKING ON *ISTQB* FOUNDATION LEVEL CHAPTER SERIES (CHAPTER-1)

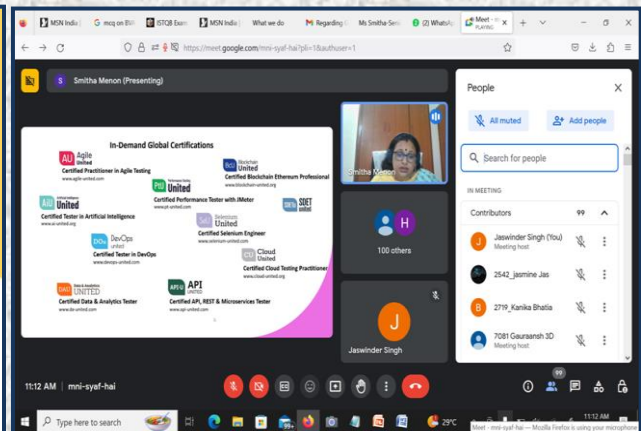
Resource Person
Smitha Menon
Senior Consultant
Verify Software

Resource Person
Dr. Jaswinder Singh
Associate Professor
Department of Computer Applications
Chitkara University, Punjab

Organised By -
CSI Student Chapter
Department of Computer Applications
Chitkara University, Punjab

DATE : 25th September, 2023
TIME : 11:00 AM Onwards
MODE : Hybrid
VENUE : DeMorgan Block, Chitkara University

Student Coordinator
Sarita - (8168781556)



TECHNOVANZA-2023: CONNECTING THE DOTS OF INNOVATION AND STARTUP SEPTEMBER 29, 2023

The CSI Student Chapter, in collaboration with the Department of Computer Applications, hosted "Technovanza-2023: Connecting the dots of Innovation and startup". The event focused on fostering entrepreneurship, promoting innovation, and enhancing technical abilities. During the initial round, participants answered inquiries regarding nascent sector startups and advancements. Teams encountered diverse scenarios during the Binary Fetch portion. During the Binary Fetch segment, students engaged in a debate and were required to devise a novel solution. They then proceeded to develop algorithms and construct flowcharts. Participants were encouraged to employ critical thinking and design principles to address each problem. The winners of this round go to the deployment phase, where they tackle supplementary code difficulties. Dr. Jaiteg Singh, Professor and Dean of the Department of Computer Applications, awarded prizes and Certificates to the winning teams in recognition of their achievements.



CHITKARA UNIVERSITY

TECHNOVANZA
"Connecting the dots of Innovation and startup"

Event Rounds

- ✓ Innovation Quotient
- ✓ Binary Fetch
- ✓ Deployment

DATE : 29th September, 2023
TIME : 10:00 AM Onwards
MODE : Offline
VENUE : Faraday Hall, Chitkara University

Register Here



"Prizes and Certificates for Winners"

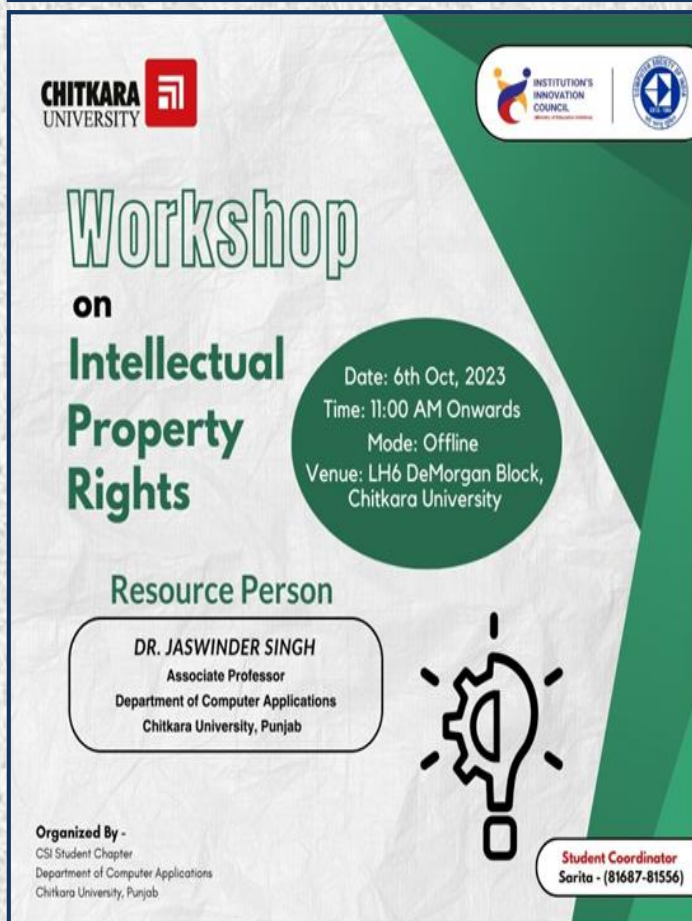
Organized By -
CSI Student Chapter
Department of Computer Applications
Chitkara University, Punjab

Student Coordinators
Sarita - (81687-81556)
Vansham - (80952-10000)



WORKSHOP ON INTELLECTUAL PROPERTY RIGHTS (IPR) OCTOBER 6, 2023

The department of computer applications, in collaboration with the CSI student chapter, hosted a workshop on intellectual property rights (IPR). The seminar was led by Dr. Jaswinder Singh, an Associate Professor in the Department of Computer Applications at Chitkara University, Punjab. The conversation commenced with an elucidation of the concept of Intellectual Property Rights (IPR) and its profound value as a crucial asset for humanity. He discussed patents, copyrights, trademarks, and other related intellectual property rights. He demonstrated the process of completing IPR online. In addition, he addressed the support offered by Chitkara University to students and employees in filing Intellectual Property Rights (IPR). He urged each student to generate at least one utility or design patent prior to finishing their degree. He provided guidance to the kids on fostering innovation in problem-solving. During the Workshop, students were educated on the concept of intellectual property rights and the process of legally establishing it as an asset.



The poster features the Chitkara University logo at the top left, the Institution's Innovation Council logo at the top right, and a lightbulb icon with a gear inside at the bottom right. The text is arranged in a clean, modern layout with green and white color schemes.

CHITKARA UNIVERSITY

INSTITUTION'S INNOVATION COUNCIL

Workshop

on
Intellectual Property Rights

Date: 6th Oct, 2023
Time: 11:00 AM Onwards
Mode: Offline
Venue: LH6 DeMorgan Block,
Chitkara University

Resource Person

DR. JASWINDER SINGH
Associate Professor
Department of Computer Applications
Chitkara University, Punjab

Organized By -
CSI Student Chapter
Department of Computer Applications
Chitkara University, Punjab

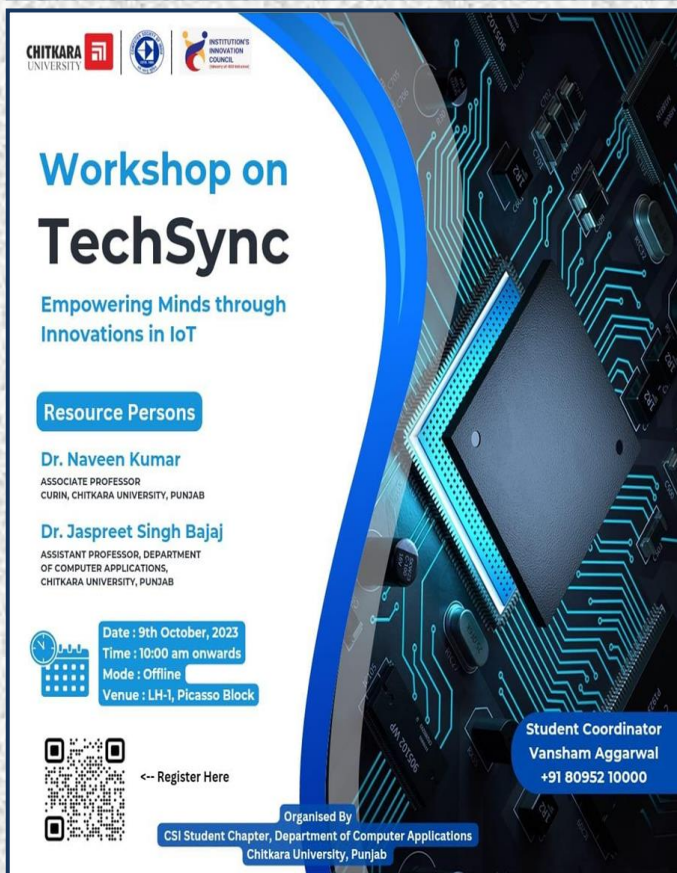
Student Coordinator
Sarita - (81687-81556)





TECHSYNC: EMPOWERING MINDS THROUGH INNOVATIONS IN IOT

OCTOBER 9, 2023

The Department of Computer Applications organised a session titled "TechSync: Empowering Minds through Innovations in IoT" in collaboration with the CSI Student Chapter. Dr. Naveen Kumar and Dr. Jaspreet Singh, who were the speakers, motivated the participants to develop a strong enthusiasm for innovation and the Internet of Things (IoT). The seminar featured interactive exercises in which participants honed their coding proficiency for the Internet of Things (IoT) and acquired practical knowledge in configuring and programming diverse IoT devices. The activities additionally encompassed a concise presentation of diverse IoT microcontrollers that can be utilised to construct a wide range of inventive projects. It offers societal advantages on a broad scale. The participants acquired a comprehensive understanding of IoT theories and practical skills in IoT software development through an immersive experience, enhancing their capacity to innovate and create in this rapidly evolving field.



CHITKARA UNIVERSITY   INSTITUTIONS INNOVATION COUNCIL

Workshop on TechSync


Empowering Minds through Innovations in IoT

Resource Persons

Dr. Naveen Kumar
ASSOCIATE PROFESSOR
CURIN, CHITKARA UNIVERSITY, PUNJAB

Dr. Jaspreet Singh Bajaj
ASSISTANT PROFESSOR, DEPARTMENT
OF COMPUTER APPLICATIONS,
CHITKARA UNIVERSITY, PUNJAB

Date: 9th October, 2023
Time: 10:00 am onwards
Mode: Offline
Venue: LH-1, Picasso Block

 [Register Here](#)

Organised By
CSI Student Chapter, Department of Computer Applications
Chitkara University, Punjab

Student Coordinator
Vansham Aggarwal
+91 80952 10000



UNLEASHING INNOVATION IN PROCESS MODELS: COMPETE TO OPTIMIZE YOUR SOFTWARE DEVELOPMENT OCTOBER 16-18, 2023

The Department of Computer Applications, through the CSI student branch, organized an event called "Unleashing Innovation in Process Models: Compete to Optimize Your Software Development." Dr. Deepika Chaudhary and Ms. Taruna Sharma handled the event's coordination. The competition took place over three days with the following schedule: students had to create Software Requirement Specifications (SRS) on the first day. On the following day, the students who made the short list carefully constructed prototypes according to their SRS. Lastly, these prototypes were evaluated on the third day. Students learned so much about Software Requirement Specifications and related approaches during this interactive workshop. The event's results showed that raising attendees' knowledge of the value of innovation in process models and promoting creative thinking result in more original solutions and improved problem-solving skills.

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UNLEASHING INNOVATION IN PROCESS MODELS

Compete to Optimize Your Software Development

Venue
DeMorgan Block,
Chitkara University

Prizes and Certificates for Winners

Date: 16-18th Oct, 2023
Duration: 3 Days
Time: 10:00 A.M. onwards
Mode: Offline

Faculty Coordinators

- **Dr Deepika Chaudhary**
Professor, Department of Computer Applications, Chitkara University
- **Ms Taruna Sharma**
Assistant Professor, Department of Computer Applications, Chitkara University

Student Coordinators

Sarita 8168781556 Vansham 8095210000

Organised By
CSI Student Chapter, Department of Computer Applications Chitkara University, Punjab



CRITICAL THINKING ON ISTQB FOUNDATION LEVEL CHAPTER SERIES (CHAPTER-2)

OCTOBER 20, 2023

The CSI student chapter, supervised by the department of computer applications, arranged a series of lectures on critical thinking for the ISTQB Foundation level. This was the second chapter in the series. The event was conducted in a hybrid format. The specialists offered in-depth analysis of the different phases of testing in the software development life cycle. This informative seminar explored the essential elements of testing, ensuring that the students acquired a profound comprehension. The discussion commenced by highlighting the importance of conducting tests at each stage of the software development cycle, with a particular emphasis on the value of early testing in identifying and addressing issues in a proactive manner. Dr. Deepika educated the students on the significance of the second chapter of the ISTQB series and its topic covered. Ms. Samitha provided detailed explanations of the many levels of testing and how these types are being implemented in real-world scenarios within the sector. Ms. Samitha demonstrated the software development process, including parallel testing activities.

**CRITICAL THINKING ON
ISTQB
FOUNDATION LEVEL
CHAPTER SERIES
(CHAPTER-2)**

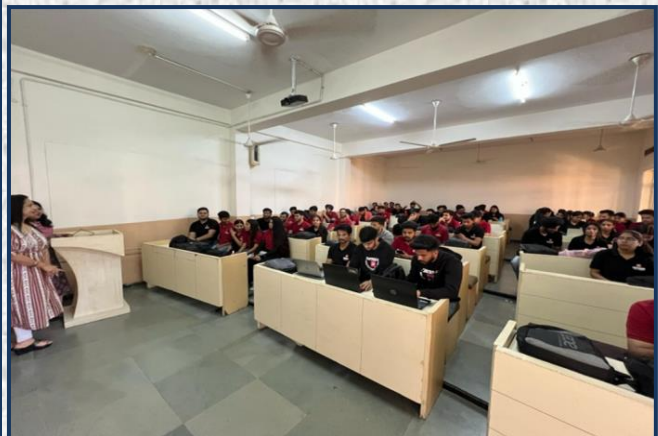
Resource Person
Smitha Menon
Senior Consultant
Verify Software

Resource Person
Dr. Deepika Chaudhary
Professor
Department of Computer Applications
Chitkara University, Punjab

Organised By -
CSI Student Chapter
Department of Computer Applications
Chitkara University, Punjab

DATE : 20th October, 2023
TIME : 11:00 AM Onwards
MODE : Hybrid
VENUE : DeMorgan Block, Chitkara University

Student Coordinator
Sarita - (8168781556)



INNOVATE WITH PYTHON: STARTING FROM SCRATCH

OCTOBER 27, 2023

The CSI Student Chapter, in collaboration with the Department of Computer Applications at Chitkara University, Punjab, hosted an expert lecture on "Innovate with Python: Starting from Scratch". The session was led by Dr. Rupinder Singh, an Associate Professor in the Department of Computer Applications at Chitkara University, Punjab. Dr. Singh initiates the learning process by thoroughly examining the fundamental aspects of Python, including variables, data types, loops, and basic control structures, so establishing a strong foundation in Python. Afterwards, participants explore the practical implementation of Python for innovative problem-solving, acknowledging Python's expertise as a powerful instrument for tackling real-life difficulties. The purpose of "Innovate with Python: Starting from Scratch" is to stimulate invention and equip participants with practical Python skills. The aim of this expert lecture is to cultivate critical thinking abilities by means of coding problems.



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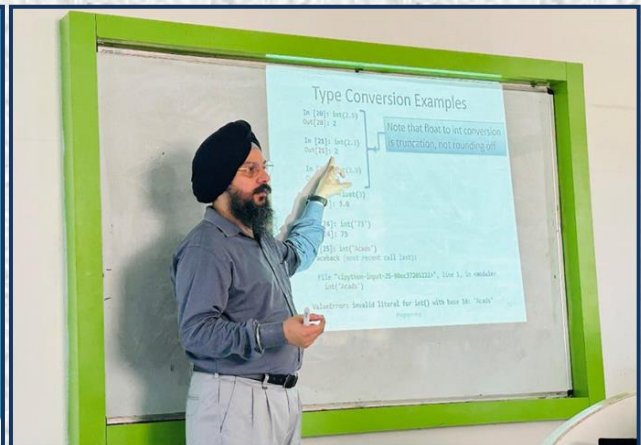
INNOVATE WITH PYTHON: STARTING FROM SCRATCH

Resource Person
DR. RUPINDER SINGH
ASSOCIATE PROFESSOR, DEPARTMENT OF COMPUTER APPLICATIONS
CHITKARA UNIVERSITY, PUNJAB

MORE INFORMATION

Date : 27 Oct 2023
Time : 1:00 PM onwards
Mode : Offline
Venue : DeMorgan Block,
Chitkara University

Organised by
CSI Student Chapter, Department of Computer Applications, Chitkara University, Punjab



THE INNOVATION ODYSSEY: CODE MARATHON EXPEDITION

OCTOBER 31, 2023

The Department of Computer Applications organized a coding competition called "The Innovation Odyssey: Code Marathon Expedition" in collaboration with the CSI Student Chapter. This event is distinguished by its dynamic, competitive essence, and emphasis on innovation. During this event, competitors are challenged to demonstrate their abilities by competing against time to solve issues and create innovative web applications. The Code Marathon Expedition offers boundless opportunities for innovation. Participants are encouraged to think innovatively, create solutions, and push the limits to reach their goals utilizing HTML, CSS, and JavaScript. This event prioritizes teamwork, highlighting the importance of efficient communication and collaboration in the rapidly evolving coding industry. Participants unite and cooperate to tackle coding problems, fostering a sense of friendship and community.

CHITKARA UNIVERSITY

INSTITUTION'S INNOVATION COUNCIL

The Innovation Odyssey : Code Marathon Expedition

Register Here

SCHEDULE

- 📅 Date : 31st October, 2023
- 🕒 Time : 09:30 AM Onwards
- 📍 Mode : Offline
- 📍 Venue : Pulitzer Hall, Picasso Block Chitkara University

Language Proficiency

- ✓ HTML
- ✓ CSS
- ✓ JS

Organized By -
CSI Student Chapter
Department of Computer Applications
Chitkara University, Punjab

csi_chitkara

Student Coordinators
Sarita - (81687-81556)
Kanika - (97297-27877)



CRITICAL THINKING ON ISTQB FOUNDATION LEVEL CHAPTER SERIES (CHAPTER-3)

NOVEMBER 9, 2023

The CSI student chapter, supervised by the department of computer applications, arranged a series of Critical Thinking sessions on the ISTQB Foundation level. This was the third chapter in the series. The event was conducted in a hybrid format. The seminar was conducted by Ms. Smitha Menon, a professional consultant specialising in software verification, and Dr. Jaswinder Singh, an Associate Professor at Chitkara University in Punjab. Dr. Jaswinder emphasised the need of static testing. He clarified that static testing mostly focuses on identifying defects, while dynamic testing is primarily concerned with detecting failures. Ms. Samitha focused exclusively on the topic of dynamic testing. She specified that dynamic testing evaluates the operational characteristics of software systems, such as memory utilisation and performance, whereas static testing scrutinises the code and design documentation. Ms. Smitha also elaborated on the significance of review and its various classifications. She elaborated on the application of review strategies to ensure successful testing.

**CRITICAL THINKING ON
ISTQB
FOUNDATION LEVEL
CHAPTER SERIES
(CHAPTER-3)**

Resource Person
Smitha Menon
Senior Consultant
Verify Software

Resource Person
Dr. Jaswinder Singh
Associate Professor
Department of Computer Applications
Chitkara University, Punjab

DATE : 9th November, 2023
TIME : 11:00 AM Onwards
MODE : Hybrid
VENUE : DeMorgan Block, Chitkara University

Organised By -
CSI Student Chapter
Department of Computer Applications
Chitkara University, Punjab

Student Coordinator
Sarita - (8168781556)

3.2.4 Applying review Techniques

During Individual Preparation, some review techniques which may be applied

- Ad hoc ✓
- Checklist-based
- Scenarios and dry runs
- Perspective-based
- Role-based



INDUSTRIAL VISIT TO GRAZITTI INTERACTIVE

NOVEMBER 29, 2023

CSI Student Chapter under the Aegis of the Department of Computer Applications organized an industrial visit to Grazitti Interactives on 29th November, 2023. The visit was attended by 40 MCA students, accompanied by two faculty members. Mr. Sahildeep Singh, a Developer at Grazitti, extended a warm welcome to the students and faculty members. Ms. Vandana provided insights into the role of a full stack developer, discussing salary prospects and future readiness, highlighting the benefits of pursuing a career in full stack development. Ms. Vanshika shared information on Salesforce, DevOps, and related topics. Finally, the students toured the entire company, gaining firsthand exposure to various ongoing live projects. They observed the practical aspects of these projects and learned about the prerequisites and requirements for similar roles. Additionally, they explored the company's infrastructure and facilities.



The poster features a blue and white geometric design with a grid pattern and a stylized 'G' logo for Grazitti Interactive. It includes logos for Chitkara University and the Institutions' Innovation Council. The text provides details about the visit, including the time, date, mode, venue, and contact information for the student coordinator.

**INDUSTRIAL VISIT TO
GRAZITTI INTERACTIVE**

Time: 9:30 AM onwards
Date: 29 November 2023
Mode: Offline

Venue
Grazitti Interactive,
#198, Industrial Area Phase 2,
Panchkula, Haryana 134113

Student Coordinator
Sarita Sharma
8168781556

Organised by
CSI Student Chapter, Department of Computer Applications, Chitkara University, Punjab



WELCOMING FRESHER'S

OCTOBER 6, 2023

The Fresher's Party, an eagerly awaited occasion for the new batch, provided a wonderful opportunity for students to meet and interact with their seniors and faculty members for marking the beginning of a remarkable journey in the Chitkara University. Chitkara University declared the Fresher's party for the new students on October 7, 2023 wherein seniors created a welcoming environment and newcomers were welcomed with open arms. In this vibrant environment, friendships blossom, aspirations take flight, and the path through academia truly begins. Around 45 senior students of BCA and MCA of the Computer Applications department performed Flash Mob, showcased their dancing skills with captivating performances. Duet, and group dance routines left the audience in awe and added a touch of glamour to the day in front of Square one area. Students of Computer Applications enjoyed a lot.

CHITKARA UNIVERSITY

MATRIX
DISCOVER YOURSELF

**NEW FACES,
ENDLESS POSSIBILITIES!
JOIN OUR FLASH MOB.
WELCOMING FRESHERS!!**

**06
OCTOBER
2023**

TIME:-12:00 ONWARD

ORGANISED BY MATRIX CLUB UNDER THE AEGIS OF
DEPARTMENT OF COMPUTER APPLICATIONS, CHITKARA UNIVERSITY, PUNJAB



WORLD MENTAL HEALTH DAY

OCTOBER 10, 2023

The Department of Computer Applications, through the Matrix Club, held an enlightening and uplifting event titled "Let's meet your Jinnie - Your True self". This event aimed to raise awareness about counselling among the Freshmen Batch. The purpose of this event was to convene specialists in the realm of mental health with our students in order to elucidate the significance of mental well-being, deliberate on effective coping mechanisms, and foster a constructive discourse pertaining to mental health. This counselling session was facilitated by Ms. Charanjit Kaur, an experienced student counsellor at Chitkara University, Punjab. The Expert Talk on Mental Health, led by the esteemed counsellor Ms. Charanjeet Kaur, was a resounding success. The event featured enlightening conversations, personal anecdotes, and the insights of distinguished experts. It served as a powerful demonstration of the significance of promoting awareness and diminishing the stigma associated with mental health. It has ignited a trend of promoting mental well-being both on campus and in the broader community.



Matrix Club under aegis of Department of Computer Applications

celebrates

WORLD MENTAL HEALTH DAY

Let's meet your Jinnie
YOUR TRUE SELF

Counseling Awareness Session for Freshmen Batch

Expert ▾

Charanjeet Kaur
Student Counsellor



Date: 10th October, 2023



DEBATE COMPETITION

OCTOBER 19, 2023

The Matrix Club of Chitkara University, in partnership with the Department of Computer Application, organized an exhilarating Debate Competition on the various topics. This event exemplified the potency of discussion, the impact of fervor, and the vitality of intellectual interchange. The competition encompassed a wide range of topics, including 'Religious Rituals and Superstitions' and 'Impact of Social Media on Suicides'. Participants engaged in these important issues, showcasing various perspectives and eloquent voices. Debate goes beyond mere words; it is the harmonious interplay of ideas, a battleground of opinions, and a pathway for transformation. Our debaters exerted maximum effort in their pursuit of truth and comprehension, making a lasting impact on the platform of intellectual discussion. We commend the participants for their articulate speech, the winners for their victorious accomplishments, and the audience for their steadfast support. We acknowledge the potential of these discussions to initiate transformative change through dialogue. As proponents of intellectual advancement, the Department of Computer Application eagerly anticipates a future in which these conversations persistently influence our world in the positive manner.



CHITKARA UNIVERSITY
PUNJAB

MATRIX
BETWEEN TECHNIQUE

GOALS
4 years
100% success

G20
INDIA 2023

DEBATE COMPETITION

TOPICS

- Religious Rituals and Superstition
- Impact of Social Media on Suicide

Venue : Pierre Hall
Date : 19th Oct, 2023 Scan to Register
Time : 1 pm Onwards

Organized by Matrix Club under the aegis of
Department of Computer Applications, Chitkara
University Punjab

Goodies to Win 🏆
E-Certificate to Participants.



DIWALI BASH

NOVEMBER 9, 2023

The Diwali Bash, a celebration that combines creativity and tradition through vibrant colours and artistic expression, occurred on November 09, 2023, at the De-Morgan Block. There were a total of three distinct competitions: Diya Decoration, Rangoli Making, and Toran Designing. Diya Decoration went on a creative adventure as participants infused traditional diyas with vitality. The atmosphere was permeated with the aroma of paints and the vibrant energy of creative minds, as each diya transformed into an individual work of art. The corridor underwent a metamorphosis into a canvas, eagerly anticipating the creative touch of artistic individuals for the Rangoli event. Hues gracefully swirled on the floor while participants skillfully created elaborate rangolis, narrating tales of tradition and celebration. The Toran tapestry observed grand gateways into a realm of sophistication, adorned with torans crafted from an assortment of flowers, artistic ingenuity, and other materials. Every Toran conveyed a narrative, encapsulating the fundamental nature of Diwali. The event culminated with the announcement of multiple prize winners, followed by the distribution of awards during a ceremony. The event was highly successful and concluded as a memorable occasion.



CHITKARA UNIVERSITY  

Diwali Bash

Competition:
Rangoli making | Toran Designing | Diya Decoration

Faculty Co-ordinators
Dr. Neelam Dahiya
Assistant Professor
Department of Computer Applications
Chitkara University, Punjab

Dr. Divya Khanna
Assistant Professor
Department of Computer Applications
Chitkara University, Punjab

Date : 9th November, 2023
Time : 9:30 am onwards
Venue : De-Morgan's Block.

Student Co-ordinator
Rahul Kohli
+91 9896250252

Organised by
Matrix Club under the aegis of the
Department of Computer Applications
Chitkara University, Punjab.

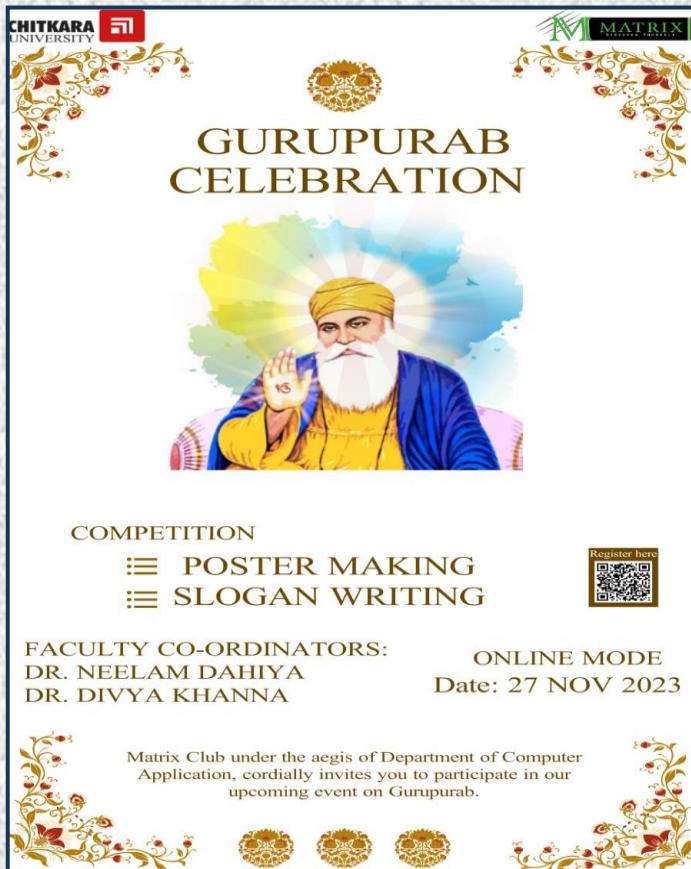
Prizes for Winners
E-Certificates to all Participants



GURUPURAB CELEBRATION

NOVEMBER 27, 2023


The Gurupurab Celebration, a reverent and unifying occasion, was held virtually on November 27th, 2023. The event consisted of two competitions: slogan writing and poster making. The programme highlighted the importance of this day, as it commemorates the birth anniversary of Guru Nanak Dev Ji, the founder of Sikhism. This day holds great importance and is a spiritual pilgrimage that goes beyond time, linking the Sikh community to the teachings of their Gurus. Gurupurab is more than just a memorial; it is a dynamic combination of devotion, humility, and selfless service. The celebration transcends the spiritual domain, incorporating acts of benevolence, community engagement, and the communal partaking of a meal, referred to as "langar," which signifies egalitarianism and solidarity. Gurupurab serves as a luminous symbol, shedding light on the principles of moral uprightness, empathy, and unity. It annually reminds the Sikh community and others of the profound teachings that persistently lead and motivate them.



CHITKARA UNIVERSITY

MATRIX


GURUPURAB CELEBRATION



COMPETITION

- ≡ POSTER MAKING
- ≡ SLOGAN WRITING

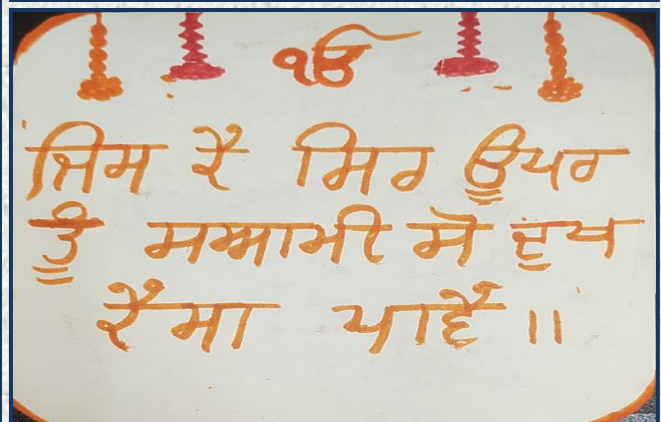
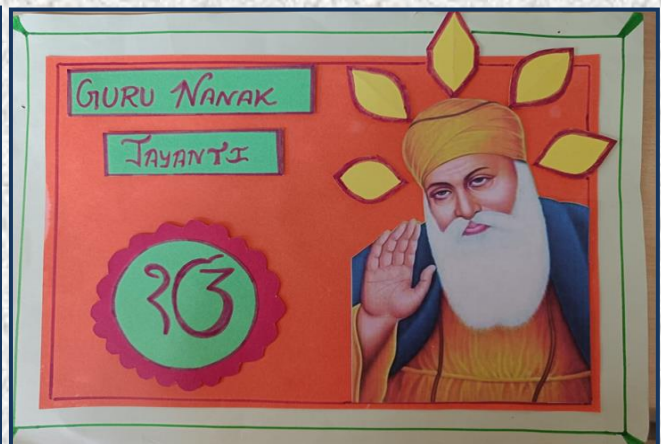
Register here



FACULTY CO-ORDINATORS:
DR. NEELAM DAHIYA
DR. DIVYA KHANNA

ONLINE MODE
Date: 27 NOV 2023

Matrix Club under the aegis of Department of Computer Application, cordially invites you to participate in our upcoming event on Gurupurab.



A TALK ON CURRENT TECHNOLOGY AND PLACEMENT OPPORTUNITIES OCTOBER 5, 2023

On October 5, 2023, we had the honour of hosting Mr Pankaj Oberoi, a renowned pioneer in the field of technology, on our campus. The event, skillfully orchestrated by the Alumni Connect Team in partnership with the Department of Computer Applications, made a lasting impression on all the participants. In a society where technology intricately connects the fabric of our everyday existence, Mr. Oberoi's lecture was truly enlightening. He altruistically imparted his extensive knowledge and expertise, vividly illustrating how the constantly changing technological landscape is shaping the future employment market. His profound understanding provided guidance to technology enthusiasts and experts, navigating them through the complex array of potential opportunities that awaited them. The ambiance was charged with excitement as he delivered his speech, and his words resonated deeply inside the hearts of everyone who were attentive. Mr. Oberoi's speech transcended being a mere presentation; it served as a catalyst for inspiration, for every individual in the audience. In our ongoing journey through this technology-driven era, it is crucial to remember that our aspirations serve as the guiding lights that steer us.

CHITKARA UNIVERSITY

G20 INDIA 2023

SUSTAINABLE DEVELOPMENT GOALS

OUR ALUMNI SPEAKS: A SERIES

**A TALK ON CURRENT TECHNOLOGY
AND PLACEMENT OPPORTUNITIES**

Speaker

Mr. PANKAJ OBEROI
(Quality Assurance Engineer,
edSlash Pvt.Ltd,
Placed in Capgemini Pvt. Ltd)

Faculty Coordinator:
Dr. Vandana
Associate Professor
Department of Computer Applications
Chitkara University Punjab

5th Oct 2023

Organized by Alumni Connect Team
under the aegis of Department of Computer Applications,
Chitkara University Punjab



EXPERT TALK -TRANSFORMING TELECOMMUNICATIONS WITH AI INNOVATIONS OCTOBER 16, 2023

The Department of Computer Applications, Chitkara University hosted Mr. Kumar Satyam, a former student, for an informative guest lecture arranged by the Alumni Connect Team. The lecture afforded students and guests a profound encounter, imparting profound understanding of the ever-evolving realm of Artificial Intelligence and its paramount importance in our swiftly transforming world. Mr. Satyam's speech exerted a substantial impact on the student population by offering them a glimpse into the pragmatic applications of AI. These insights are essential in helping students in bridging the gap between their academic knowledge and practical application, thereby improving their overall understanding of the subject. Moreover, his emphasis on innovation and the pursuit of patents delivers a vital message. This underscores the need of creative thinking and the creation of distinctive solutions, which is an invaluable lesson for individuals who aspire to make a lasting impression in the technology. Mr. Kumar's professional presentation imparted pupils with educational and inspiring perspectives. The demonstration highlighted the potential of Artificial Intelligence and innovation, and their ability to be utilised for global impact and societal progress. The students were inspired to establish ambitious objectives, embrace novel concepts.



CHITKARA UNIVERSITY PUNJAB

G20 INDIA 2023

SUSTAINABLE DEVELOPMENT GOALS

CEQU LABS

Transforming Telecommunications with AI Innovation

OFFICIAL AIR

EXPERT OF THE TALK
Mr K.Satyam
Founder and CEO OF CEQU Labs

Organized by Alumni Connect Team
Under the aegis of Department of Computer Application
Chitkara University, Punjab

16th oct 2023



WORKSHOP ON INTRODUCTION AND APPLICATION OF INNOVATIVE TECHNOLOGY IN VISION CARE SEPTEMBER 28, 2023

The Workshop Techno Vision was organized by the Department of Optometry, Chitkara School of Health Sciences, in partnership with the Department of Computer Applications, Chitkara University, Punjab on September 28, 2023. The workshop was organized by Dr. Ruchi Mittal (Professor, Department of Computer Applications) and Mr. Sachidanand (Department of Optometry) with a specific target towards the students studying optometry and computer applications. The objective of this event was to enhance understanding of patents and advancements in eye care vision, specifically focusing on how new innovations can be implemented in the optometry field using the current and upcoming technologies. During the workshop, we were honored to have Dr. Jaiteg Singh, a distinguished professor and Dean of the Department of Computer Applications, as our guest. Additionally, we were privileged to have Dr. Renu Thakur, a renowned professor and Head of Research in the Department of Optometry at CSHS. Students from the 3rd and 5th semesters of both departments, together with faculty members, participated in this workshop. Dr. Jaiteg conducted an interactive session with the students, discussing patent filing and discoveries. He also highlighted the potential collaboration between the two departments.



CHITKARA UNIVERSITY **SCHOOL OF HEALTH SCIENCES**

**TECHNO-VISION :
INTRODUCTION AND
APPLICATION OF INNOVATIVE
TECHNOLOGY IN VISION CARE**

Speakers :

Dr. Jaiteg Singh,
Professor & Dean, Department of
Computer Application

Dr. Renu Thakur
Professor & HOD Research,
Department of Optometry, CSHS

Date: 28th September 2023
Timing: 11:00 A.M. Onwards
Mode: Offline
Venue: Pierre Hall

Organized by:
Department of Optometry, CSHS, &
Department of Computer Application Chitkara University, Punjab

Event Coordinator

Dr. Ruchi Mittal
Professor,
Department of Computer Application,
9729500858,
ruchi.mittal@chitkaraedu.in

Mr. Sachitanand Singh
Assistant Professor,
Department of Optometry, CSHS,
7411949632,
sachitanand.singh@chitkara.edu.in

Students from Department of Optometry and Department of
Computer application can participate



TECHNO-VISION: INNOVATIVE TRENDS IN VISION CARE - A BRAIN STORMING SESSION OCTOBER 12, 2023

The Department of Optometry at Chitkara School of Health Science, Chitkara University, Punjab, organised an informative event about the integration of advanced technology in eye care and the complexities of patenting intellectual property on October 12, 2023. The event, led by the devoted Event Incharge, Dr. Renu Thakur, showcased two notable speakers: Dr. Ruchi Mittal from the Department of Computer Application and Mr. Sachitanand Singh from the Department of Optometry. Dr. Ruchi Mittal, a renowned authority in Computer Applications, gave a captivating lecture on the most recent advancements in eye care technology. The focus of her presentation was on the state-of-the-art technology that are transforming the methods of diagnosing and treating eye diseases. Dr. Mittal emphasised the influence of Artificial Intelligence, Machine Learning, and computer vision on the timely identification of diseases and customised therapeutic choices. Her observations provide a thorough perspective on how technology is transforming the future of eye care. After Dr. Mittal's enlightening presentation, Mr. Sachitanand Singh, an expert in Optometry, proceeded to explain to the audience the complex procedure of transforming creative concepts into concrete intellectual assets.



CHITKARA UNIVERSITY **SCHOOL OF HEALTH SCIENCES** **GOALS** **WORLD LEADER** **100%** **100%** **100%** **100%**

TECHNO-VISION : INNOVATIVE TRENDS IN VISION CARE A BRAIN STORMING SESSION

Speakers :

Dr. Ruchi Mittal,
Professor, Department of
Computer Application

Mr. Sachitanand Singh,
Assistant Professor,
Department of Optometry, CSHS

Date: 12 October 2023
Timing: 11:00 A.M Onwards
Mode: Offline
Venue: LH104 Ramanujan Block

Organized by:
Department of Optometry, CSHS, &
Department of Computer Application Chitkara University, Punjab

Organising Chalpersion :

Dr. Jaiteg Singh
Dean, CA
Chitkara University, Punjab

Dr. Sonika Bakshi
Dean, CSHS
Chitkara University, Punjab

Convenor:
Dr. Renu Thakur
Professor & HOD (R)
Department of Optometry
9915934244
renu.thakur@chitkara.edu.in


Students from Department of Optometry and Department of
Computer application can participate




FDP ON RESEARCH METHODS AND REPORT WRITING

OCTOBER 16-20, 2023

A faculty development program (FDP) on Research Methods and Report Writing was organized at the Department of Computer Applications from October 16-20, 2023 and was led by a team of seasoned educators, consisting of Dr. Ruchi Mittal (Professor), Dr. Amandeep Kaur (Professor), Mr. Vikas Rattan (Associate Professor), Dr. Varun Malik (Associate Professor), and Dr. Amanpreet Singh (Assistant Professor) from the Department of Computer Applications, Chitkara University, Punjab, India. The programme sought to augment participants' comprehension of research methodology and proficient report writing. Participants acquired knowledge on experimental designs, data gathering methodologies, and analytical tools through engaging presentations. The faculty members offered invaluable assistance in producing thorough research papers. The teachers' collaborative approach enhanced the participants' overall learning experiences by promoting a deeper awareness of research procedures, research articles, and improving their writing skills. This technique also helped to enhance their competency in producing high-quality research reports.



Research Methods and Report Writing



Resource Persons


- Dr. Ruchi Mittal
- Dr. Amandeep Kaur
- Mr. Vikas Rattan
- Dr. Varun Malik
- Dr. Amanpreet Singh

DURATION: October 16-20, 2023
TIME : 02:00 PM Onwards
MODE : Online

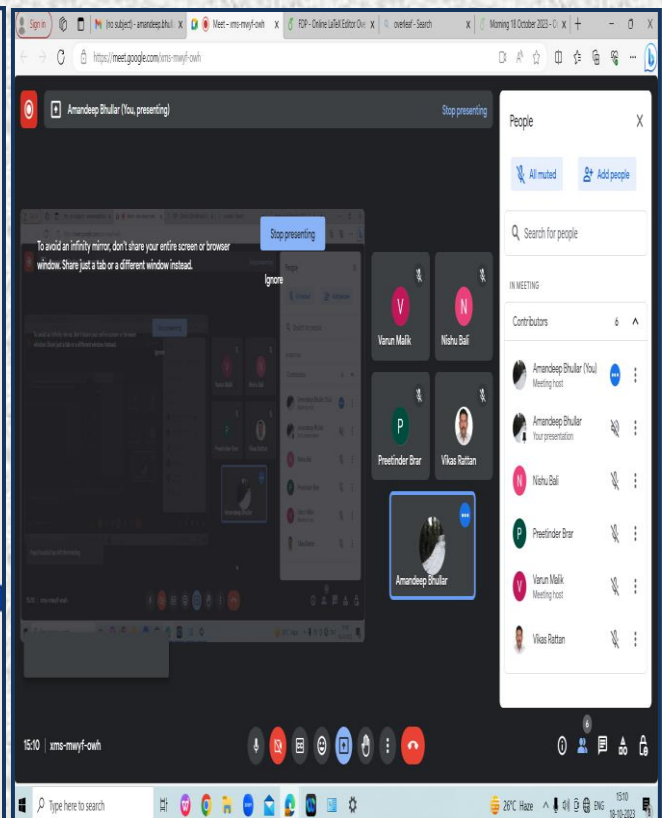
SCHEDULE

- DAY 1 - Introduction to the topic and data classification implementation
- DAY 2 - Classification modelling using Python
- DAY 3 - Report writing using overleaf
- DAY 4 - Report writing using overleaf
- DAY 5 - Reference handling using Mendeley

[Register Here](#)



Department of Computer Applications
Chitkara University, Punjab



FDP ON FINANCIAL LITERACY: HOW TO MAKE SMART DECISIONS WITH MONEY OCTOBER 25-26, 2023

Financial literacy refers to the capacity to comprehend and proficiently employ a range of financial abilities, such as personal financial management, budgeting, and investing. It is the fundamental skill necessary for making intelligent decisions regarding money in today's ever-changing financial landscape. The Department of Computer Applications at Chitkara University, Punjab, organised a Faculty Development Programme from October 25-26, 2023. 18 faculty members from the Department of Computer Applications at Chitkara University, Punjab, participated in the FDP. The FDP elucidated diverse money market tools accessible in the market for depositing excess funds. The text highlighted the significance of investing rather than saving and explored the benefits of regular engagement in the financial markets for enhanced returns. The resource person for this Faculty Development Programme (FDP) was Dr. Maninderjit Singh Khanna, an Associate Professor in the Department of Computer Applications at Chitkara University, Punjab.



CHITKARA UNIVERSITY

2 Days FDP on
FINANCIAL LITERACY
HOW TO MAKE SMART DECISIONS WITH MONEY

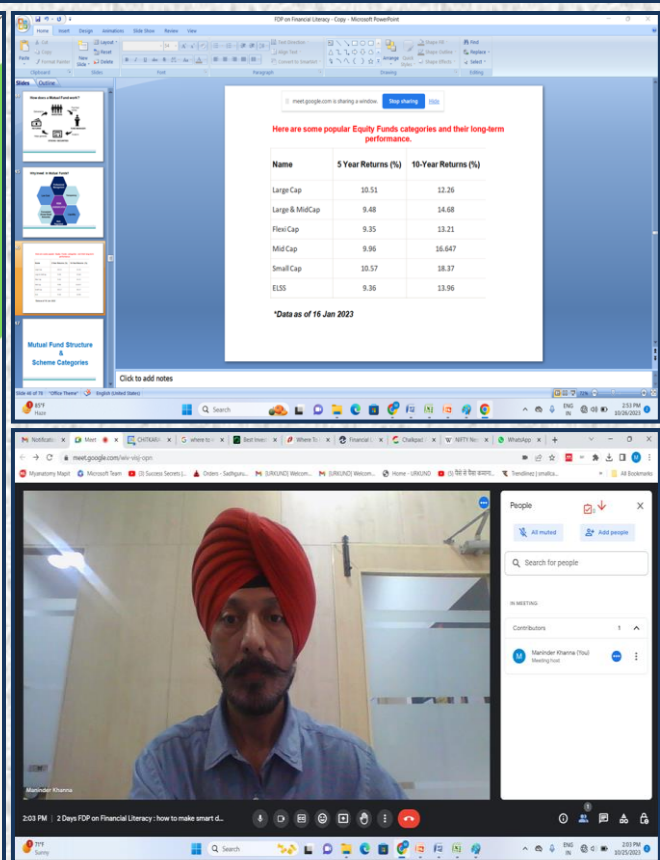
MODE: ONLINE

25-26 OCT, 2023
02:00 PM ONWARDS

DR. MANINDERJIT SINGH KHANNA
RESOURCE PERSON

Department of Computer Applications
Chitkara University, Punjab

The poster features a green and white color scheme with financial icons like a calculator, coins, and a bar chart. The Chitkara University logo is in the top right corner.



The top screenshot shows a PowerPoint slide titled "Here are some popular Equity Funds categories and their long-term performance." with the following table:

| Name | 5 Year Returns (%) | 10-Year Returns (%) |
|----------------|--------------------|---------------------|
| Large Cap | 10.51 | 12.26 |
| Large & MidCap | 9.48 | 14.68 |
| Fund Cap | 9.35 | 13.21 |
| MidCap | 9.96 | 16.67 |
| Small Cap | 10.57 | 18.37 |
| ELSS | 9.36 | 13.96 |

*Data as of 16 Jun 2023

The bottom screenshot shows a Zoom meeting with Dr. Maninderjit Singh Khanna, a man wearing a red turban and a blue shirt, as the resource person.

SECOND INTERNATIONAL CONFERENCE ON APPLIED DATA SCIENCE AND SMART SYSTEMS (ADSSS-2023) DECEMBER 15-16, 2023

The Second International Conference on Applied Data Science and Smart Systems (ADSSS-2023) was held on December 15-16, 2023 at Chitkara University, Punjab, India. This multidisciplinary conference focused on innovation and progressive practices in science, technology, and management. The conference successfully brought together researchers, academicians, and practitioners across different domains such as artificial intelligence & machine learning, software engineering, automation, data science, business computing, data communication, and computer networks. The presenters shared their most recent research works that are critical to contemporary business and societal landscape and encouraged the participants to devise solutions for real-world challenges. Beyond knowledge dissemination, the conference served as a dynamic platform for networking and collaboration among researchers, fostering the exchange of ideas that may shape future research endeavors. We trust that every participant found the ADSSS-2023 experience to be both enriching and productive.




2ND INTERNATIONAL CONFERENCE ON APPLIED DATA SCIENCE and SMART SYSTEMS

Conference Dates
15 & 16 Dec, 2023

ABOUT THE CONFERENCE: Second International Conference on Applied Data Science and Smart Systems solicits original, unpublished, research contributions from researchers in the areas of Computer Science, Information Systems, Computational Engineering, Electronics and Telecommunication, Computer Application and all the relevant disciplines to a common forum.

Applied Data Science and Smart Systems is an international multidisciplinary conference on innovation/innovative practices in science, technology and management. The conference seeks interdisciplinary and multidisciplinary research papers. The conference will focus on advanced computing concerns and innovations. The conference's goal is to bring together scholars and practitioners working on computing, communications, and applied informatics from around the world. The conference intends to bring together international researchers to deliver papers and spark debates about recent computing trends and breakthroughs. The conference will include a variety of presentations on current research projects, as well as engaging discussions and keynote addresses. We are convinced that this conference will give an excellent chance for researchers to exchange ideas and collaborate in the future.

The submitted articles should not be currently under review by another conference or journal. All submissions shall be handled through the Microsoft CMT portal at: <https://cmt3.research.microsoft.com/adsss2023>

More information regarding paper format and guidelines for paper submission can be found at the conference website <https://ca.chitkara.edu.in/adsss2023>

CONFERENCE TRACKS:

- Machine Learning Principles, Smart Solutions & Business Strategies
- AI and Deep Learning
- Data Science Techniques for Handling Epidemic, Pandemic
- Deep Intelligence for Interdisciplinary Research
- Software Engineering and Automation
- Data Communication and Computer Networks
- Computing in Business and Learning
- Engineering Mathematics and Physics

IMPORTANT DATES/TIMELINE

| | |
|--|----------------------------|
| Paper Submission | 20/08/ 2023 |
| Notification of Acceptance/ Revision | 31/08/ 2023 |
| Submission of Camera-ready/ Registration Papers: | 10/09/2023 |
| Conference Dates | 15/12/ 2023 16/12/ 2023 |

| Category | Student/Research Scholar | Academician | Industry Professional | Outside India |
|----------|--------------------------|-------------|-----------------------|---------------|
| Amount | INR7500 | INR8000 | INR8500 | 100USD |

Conference Website: <https://ca.chitkara.edu.in/adsss2023/>

Conference Chair:
DR. JAITEG SINGH
Professor & Dean,
Department of Computer Applications
Chitkara University, Punjab
Email: jaiteg.singh@chitkara.edu.in
Ph.: 9872029991

Conference Conveners:
DR. RAJESH KAUSHAL
Professor, Department of Computer Applications
Chitkara University, Punjab
Email: rajesh.kaushal@chitkara.edu.in
Ph.: 9888755130

Organized by: Department of Computer Applications
Chitkara University, Punjab, India.



PUBLICATION PARTNER



RESEARCH & PUBLICATIONS

Singh J, Bhangu KS. Contemporary Quantum Computing Use Cases: Taxonomy, Review and Challenges. *Archives of Computational Methods in Engineering*. 2023 Jan; 30(1):615-38.

Kumar Y, Singh R, Moudgil MR, Kamini. A Systematic Review of Different Categories of Plant Disease Detection Using Deep Learning-Based Approaches. *Archives of Computational Methods in Engineering*. 2023 Jun 26:1-23.

Hamid MA, Singh J. Emotion quantification techniques for cognitive reappraisal: a systematic review and scientometric analysis. *Artificial Intelligence Review*. 2023 Oct 4:1-54.

Bajaj JS, Kumar N, Kaushal RK. Performance analysis of hybrid model to detect driver drowsiness at early stage.

Kaur A, Kumar S, Gupta D, Hamid Y, Hamdi M, Ksibi A, Elmannai H, Saini S. Algorithmic approach to virtual machine migration in cloud computing with updated SESA algorithm. *Sensors*. 2023 Jul 3;23(13):6117.

Malik V, Mittal R, Kaur A, Singla G, Mittal A, Singh M. Enhancement and analysis of hyperspectral satellite images for Soil Study and Behavior. *Multimedia Tools and Applications*. 2023 Sep 26:1-24.

Singh A, Kaur A, Gupta D. Framework for Deploying Web Trustability in Cloud Environment. *International Journal of Intelligent Systems and Applications in Engineering*. 2023 Aug 16;11(10s):865-76.

Dahiya N, Singh S, Gupta S. Comparative Analysis and Implication of Hyperion Hyperspectral and Landsat-8 Multispectral Dataset in Land Classification. *Journal of the Indian Society of Remote Sensing*. 2023 Sep 26:1-3.

Kausal RK, Kumar N, Makka S, Saluja K. Demystifying Hyperledger Fabric Framework for Distributed Ledgers and Approach to Evaluate Its Performance. In 2023 International Conference on Sustainable Emerging Innovations in Engineering and Technology (ICSEIET) 2023 Sep 14 (pp. 116-120). IEEE.

Kaur A, Singh V, Sharma S. A comprehensive study of trust management system in wireless sensor networks. In AIP Conference Proceedings 2023 Jul 24 (Vol. 2788, No. 1). AIP Publishing.

Alagdeve VD, Singh R, Vasukidevi G, Parihar B, Dhananjeyan S, Ashreetha B. Efficient Data Encryption and Signature Generation Scheme for Resource-Constrained IoT Environments. In 2023 7th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC) 2023 Oct 11 (pp. 262-269). IEEE.

Dahiya N, Gupta S, Singh S. Qualitative and quantitative analysis of artificial neural network-based post-classification comparison to detect the earth surface variations using hyperspectral and multispectral datasets. *Journal of Applied Remote Sensing*. 2023 Jul 1;17(3):032403.

RESEARCH & PUBLICATIONS

Nagpal P, Chaudhary D, Singh J. Use of machine learning techniques in tea crop yield prediction: An analytical review. InAIP Conference Proceedings 2023 Dec 5 (Vol. 2916, No. 1). AIP Publishing.

Kaur P, Chaudhary D, Singh J. Influence of COVID-19 on mental health. InAIP Conference Proceedings 2023 Dec 5 (Vol. 2916, No. 1). AIP Publishing.

Bali N, Singla A, Chaudhary D, Nagpal P. Soil quality assessment and prediction using various AI techniques: A review. InAIP Conference Proceedings 2023 Dec 5 (Vol. 2916, No. 1). AIP Publishing.

Nagpal P, Chaudhary D, Singh J. Design of Tea Ontology for Precision-based Tea Crop Yield Prediction Using Machine Learning. InMachine Learning in Healthcare and Security 2024 (pp. 52-62). CRC Press.

Dahiya N, Gupta S, Singh S. Classification of various land use and land cover classifiers using hyperspectral imaging. InAIP Conference Proceedings 2023 Dec 5 (Vol. 2916, No. 1). AIP Publishing.

Singh A, Kaur A, Gupta D. Trust aspects in usage of web cloud computing for website development. InAIP Conference Proceedings 2023 Dec 5 (Vol. 2916, No. 1). AIP Publishing.

Kaushal P, Gandhi V, Chahal JK. Human activity recognition with machine learning. InAIP Conference Proceedings 2023 Dec 5 (Vol. 2916, No. 1). AIP Publishing.

Tyagi N, Singh J, Singh S. Evolutionary Approaches in Navigation Systems for Road Transportation System. Machine Intelligence, Big Data Analytics, and IoT in Image Processing: Practical Applications. 2023 Mar 9:341-68.

Khanna MS, Sidhu HJ, Khare A. A study of user predilection on UPI based online payment system with reference to Northern India. InAIP Conference Proceedings 2023 Dec 5 (Vol. 2916, No. 1).

Rani G, Sharma T, Sharma A. Future Database Technologies for Big Data Analytics. In2023 International Conference on Intelligent Systems for Communication, IoT and Security (ICISCoIS) 2023 Feb 9 (pp. 349-354). IEEE.

Bajaj JS, Kumar N, Kaushal RK, Gururaj HL, Flammini F, Natarajan R. System and method for driver drowsiness detection using behavioral and sensor-based physiological measures. Sensors. 2023 Jan 23;23(3):1292.

Sangheethaa S, Ramakoteswararao S, Singh R, Vinoth R, Mishra P. An Improved Anomaly Detection in Wireless Sensor Network using Artificial Intelligence Evolving Optimization Tools. In2023 Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS) 2023 Aug 23 (pp. 19-24). IEEE.

Malik V, Mittal R, Mavaluru D, Narapureddy BR, Goyal SB, Martin RJ, Srinivasan K, Mittal A. Building a secure platform for digital governance interoperability and data exchange using blockchain and deep learning-based frameworks. IEEE Access. 2023 Jul 10.

RESEARCH & PUBLICATIONS

Singh V, Malik V, Mittal R. Challenges to Cybercrime Reporting, Investigation, and Adjudication in India. In *Advancements in Cybercrime Investigation and Digital Forensics 2024* (pp. 1-24). Apple Academic Press.

Malik P, Singh J. Micro expression recognition-Contemporary applications and algorithms. In *AIP Conference Proceedings 2023 Dec 5* (Vol. 2916, No. 1). AIP Publishing.

Sharma D, Singh J, Sharma B. A review on autism detection based on eye movement and facial expressions. In *AIP Conference Proceedings 2023 Dec 5* (Vol. 2916, No. 1). AIP Publishing.

Kaur N, Chaudhary D, Singh J. Optimization of neural networks through classical metaheuristic algorithms: A review of past decade. In *AIP Conference Proceedings 2023 Dec 5* (Vol. 2916, No. 1). AIP Publishing.

Brar PS, Singh J. An internet of things based framework for implementation of efficient healthcare facilities. In *AIP Conference Proceedings 2023 Dec 5* (Vol. 2916, No. 1). AIP Publishing.

Hamid MA, Singh J. A survey on machine learning based EEG classification for detection of depression. In *AIP Conference Proceedings 2023 Dec 5* (Vol. 2916, No. 1). AIP Publishing.

Hamid MA, Singh J. Emotion quantification techniques for cognitive reappraisal: a systematic review and scientometric analysis. *Artificial Intelligence Review*. 2023 Dec;56(Suppl 3):3363-416.

Singh J, Tyagi N, Singh S, Shah B, Ali F, AlZubi AA, Alkhanifer A. 3D Indoor Modelling and Game Theory Based Navigation for Pre and Post COVID-19 Situation. *Frontiers in Public Health*. 2023 Nov 27;11:1301607.

Singh J, Sharma D. Automated detection of mental disorders using physiological signals and machine learning: A systematic review and scientometric analysis. *Multimedia Tools and Applications*. 2023 Nov 10:1-33.

Singh J, Tyagi N, Singh S, AlZubi AA, AlZubi FI, Sehra SS, Ali F. Enhancing Indoor Navigation in Intelligent Transportation Systems with 3D RIF and Quantum GIS. *Sustainability*. 2023 Nov 10;15(22):15833.

Chaudhary D, Singh J, Kaur P. Design of a Prototypic Mental Health Ontology for Sentiment Analysis of Tweets. In *Proceedings of the International Health Informatics Conference: IHIC 2022* 2023 May 19 (pp. 215-224). Singapore: Springer Nature Singapore.

Sharma S, Mittal R, Goyal N. Prospects of machine learning algorithms in healthcare industry: A review. In *AIP Conference Proceedings 2023 Dec 5* (Vol. 2916, No. 1). AIP Publishing.

PATENTS

| S No | Names of the Inventors | Title of the Patent | Patent Number |
|------|---|--|--------------------|
| 1 | AI-Enabled IoT And Blockchain-Based system For Pest Detection Using Sound analytics In Large Agriculture | Rajesh Kumar Kaushal, Naveen Kumar, Rajesh Kumar Dhanaraj, Md. Akkas Ali, Malathy Sathyamoorthy, Kritika Sharma | 202311073642 |
| 2 | Multifunctional dryer cum Almirah | Geeta Rani, Puninder Kaur, Taruna Sharma, Jayoti Bansal, Akhilendra Kumar Khare | 202311066536 |
| 3 | Laptop Cum Tablet (Tabtop) | Ruchi Mittal, Varun Malik, Jaiteg Singh, Akhib Khan | 397049-001 |
| 4 | An artificial intelligence embedded system approach for classification and performance evaluation of teaching assistant | Varun Malik, Ruchi Mittal, Jaiteg Singh, Vikas Rattan, Vikram Singh | 202311071216 |
| 5 | Temperature Controlled container for storing fruit and medicine | Geeta Rani, Akhilendra Kumar Khare, Taruna Sharma, Jayoti Bansal, Puninder Kaur | 202311064930 |
| 6 | Automatic fan cleaner | Amanpreet Singh, Amandeep Kaur, Deepali Gupta, Rupinder Singh, Maninderjit Singh Khanna, Jaspreet Singh Bajaj | 202311067484 |
| 7 | Device for waste segregation | Amanpreet Singh, Vandana | 202311069300 |
| 8 | Real time water volume measurement in cylindrical water tank using ultrasonic sensor | Vikas Malhotra, Rupinder Singh | UIIPCON230606-1379 |
| 9 | Feeder Protection And Monitoring System using Esp32 Microcontroller With IoT | Ruchi Mittal, Akhib Khan Bahamani, G Srinivasulu Reddy, Prabhuraj S, D Venkatabrahmanaidu, S Srinivasa and Varun Malik | 202311073640 |
| 10 | Cosmetic mesh box with lid (set) | Vandana bajaj | 369154-001 |

PLACEMENTS - MCA

| S No | Roll Number | Name | Company |
|------|-------------|-----------------|--|
| 1 | 2210987015 | Divpreet Kaur | Cloud EQ Software India Pvt Ltd. |
| 2 | 2210987016 | Heena Wadhwa | Cloud EQ Software India Pvt Ltd |
| 3 | 2210987018 | Manpreet | Antier Solutions Pvt.Ltd. |
| 4 | 2210987044 | Akanksha Yadav | Kreativin Technologies |
| 5 | 2210987047 | Amit Gupta | H&R Block (India) Private Limited |
| 6 | 2210987050 | Archita | Cloud EQ Software India Pvt Ltd |
| 6 | 2210987055 | Eshu Dhiman | Auxiliobits Technologies Pvt Ltd |
| 7 | 2210987077 | Pankaj Malik | QuarkXPress Publishing R & D Pvt. Ltd. |
| 8 | 2210987079 | Radhika Garg | C.S. Soft Solutions (India) Pvt Ltd |
| 9 | 2210987085 | Riya | C.S. Soft Solutions (India) Pvt Ltd |
| 10 | 2210987102 | Umansh Kaushal | AU Small Finance Bank Limited |
| 11 | 2210987103 | Vaibhav Mukheja | Cloud EQSoftware India Pvt Ltd |
| 12 | 2210987106 | Varun | Wits Innovation Lab |
| 13 | 2210987108 | Vishal Saini | Kreativin Technologies |

PLACEMENTS - BCA

| S No | Roll Number | Name | Company |
|-------------|--------------------|--------------------|--|
| 1 | 2110992564 | JASHAN VIJ | Epic Global Healthcare Solutions Pvt. Ltd. |
| 2 | 2110992578 | MADHAV PANCHAL | Epic Global Healthcare Solutions Pvt. Ltd. |
| 3 | 2110992595 | NITIKA ARORA | Epic Global Healthcare Solutions Pvt. Ltd. |
| 4 | 2110992635 | TAMANPREET KAUR | Epic Global Healthcare Solutions Pvt. Ltd. |
| 5 | 2110992674 | DHRUV JAIN | WNS Global Services (P) Ltd, |
| 6 | 2110992723 | ARYAN CHAUHAN | WNS Global Services (P) Ltd, |
| 6 | 2110992736 | BHAVYA | Epic Global Healthcare Solutions Pvt. Ltd. |
| 7 | 2110992747 | KHUSHI SHARMA | Kreativan Technologies |
| 8 | 2110992739 | ARYAN | Kreativan Technologies |

A Brain Teaser

| | | | | | | | | |
|---|---|---|---|---|---|---|--|---|
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Solution of Last Issue

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| 6 | 7 | 8 | 1 | 9 | 3 | 2 | 4 | 5 |
| 7 | 2 | 3 | 9 | 1 | 6 | 5 | 8 | 4 |
| 9 | 6 | 4 | 2 | 5 | 8 | 7 | 1 | 3 |
| 5 | 8 | 1 | 3 | 7 | 4 | 6 | 9 | 2 |
| 8 | 5 | 7 | 6 | 3 | 1 | 4 | 2 | 9 |
| 2 | 3 | 6 | 5 | 4 | 9 | 8 | 7 | 1 |
| 1 | 4 | 9 | 8 | 2 | 7 | 3 | 5 | 6 |

Editorial Section

We present the current issue of our newsletter and we hope to get due feedback from our readers which can help us in improving our next issues.

“Happy Reading”

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