

**CHITKARA**  
UNIVERSITY



# *Nouvelle Liberation*

Volume 8, Issue 3

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

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

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# ISTQB CERTIFIED TESTER FOUNDATION LEVEL CHAPTER SERIES (CHAPTER-1)

JULY 26, 2022

An ISTQB certified tester foundation level (CTFL) chapter series was arranged by the CSI Student Chapter under the direction of the Department of Computer Applications. Mrs. Samitha Menon was in charge of the meeting (senior consultant, Verify Software). She is a master at managing teams, comprehending users' complex business needs, and turning those needs into specifications that can be put into practice. She introduced the topic by outlining the goals of testing. She also clarified to the pupils the precise distinction between testing and debugging. She described the psychology behind testing as well as the testing process. She advised pupils to enrol in ISTQB courses and certification through the Indian Testing Board in order to prepare for the future. She also talked to students about her experience in product development and software testing. The resource person cleared out the students' questions, and the lesson turned out to be quite educational for the students.

**CHITKARA UNIVERSITY**

**itb INDIAN TESTING BOARD**

## ISTQB CERTIFIED TESTER FOUNDATION LEVEL (CTFL) CHAPTER SERIES

Session on ISTQB Foundation level chapter-1

**Resource Person**  
**Smitha Menon**  
Senior Consultant  
Verify Software

**Date** : 26th July, 2022  
**Time** : 11:00 AM - 01:00 PM

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

Scan to Register

**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of IITD Initiative)

**ISTQB Certified Tester Foundation Level - Chapter 1**  
Smitha Menon  
Senior Consultant  
Verify Software  
July 2022

**SOFTWARE TESTING MARKET** Global Market Insights

**Where is the Growth Happening**

- >7% CAGR (2021-27)
- 2020 >\$40 BN
- 2027 >\$60 BN

Market share (2020)

- BFSI segment: >28.5%
- Professional services segment: >55%
- IT & telecom segment: >20%

North America CAGR (2021-27): 7%

Asia Pacific Market share (2020): 20%

# EXPERT TALK ON VISITING DIGITAL THROUGH LENS OF MARKETING

AUGUST 5, 2022

An expert discussion on viewing digital through the lens of marketing was conducted by the CSI Student Chapter under the aegis of the Department of Computer Applications. The session was taken by Dr. Ruchi Gupta (Professor, Shaheed Bhagat Singh College, University of Delhi). Prof. Gupta has written three volumes on the topic of "advertising," and she has served on the NCERT Textbook Development Board. She gave an explanation of the 7Ps and the marketing mix. She went on to cover five marketing concepts: production, product, selling, marketing, and society. She covered the four components of the marketing process—strategic marketing analysis, marketing-mix planning, marketing implementation, and marketing control—before wrapping off the session. The discussion was highly valuable and educational for the students.

**CHITKARA UNIVERSITY**

**Shaheed Bhagat Singh College**

**Visiting Digital THROUGH THE LENS OF MARKETING**

**Resource Person**  
**Dr. Ruchi Gupta**  
Professor  
Shaheed Bhagat Singh College  
University of Delhi

**Date** : 05th August, 2022  
**Time** : 10:00 AM - 11:00 AM

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

Student Coordinator  
Gaurav Chib (8437203885)

**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of IPR Initiative)

**DIGITAL MARKETING**

Digital Marketing is that component of marketing that utilizes internet and online based digital technologies and devices such as desktop computers, mobile phones and other digital media and platforms to promote products and services.

**Digital Marketing Landscape**

Digital Platform	Digital Data	Digital Devices - Computers, Mobile Phones, Tablets
Digital Media	Digital Technology	Digital Platform- Website, Social Media, Mobile Apps, Emails
Digital Devices	Digital Data	Digital Media- Digital content that can be transmitted over the internet or computer networks. This can include text, audio, video and graphics
Digital Data	Digital Technology	Digital Data- waits in binary numeric form- data is transmitted via 1s and 0s
Digital Technology	Digital Technology	Digital Technology- technology that generates, stores and processes data - AR, VR, AI

Zoom Meeting: You are viewing Prof. Ruchi Gupta's screen. 2 people entered the waiting room. Your network bandwidth is low.

**USE OF AR IN MARKETING - ZARA**

- Zara released a special AR experience for buyers of Z US stores. Buyers downloading Zara's app and using their smartphones to make their shopping experience more fun and exciting when on the streets. The items used here make you discover up yourself who he bought from Zara's app in through their website. Zara notified in the short video.
- Home of Digital Marketing needs to step up with the trend and make sure a detailed step-by-step process is prepared primarily on the internet to let and support such applications.

Zoom Meeting: You are viewing Prof. Ruchi Gupta's screen. Your network bandwidth is low.

# WORKSHOP ON EMERGING TRENDS IN SQL PROGRAMMING USING ORACLE APEX

AUGUST 26, 2022

A workshop on Emerging trends in SQL programming using Oracle Apex was organised by the CSI Student Chapter under the direction of the Department of Computer Applications. The speaker for this workshop was Dr. Deepika Chaudhary (Associate Professor, Chitkara University, Punjab). An overview of DBMS and SQL commands was given before the class started. Students gain knowledge about how to set up accounts on Oracle Apex so they can construct safe, scalable enterprise applications with cutting-edge capabilities. Students used sub-queries and join commands to create databases and tables. They worked on databases for SQL Indexing and Views. Additionally, they continued to work on SQL Scripts. For the students, the programme was quite educational and enlightening.



**CHITKARA UNIVERSITY**

**WORKSHOP ON  
EMERGING TRENDS IN SQL  
PROGRAMMING USING ORACLE APEX**

**RESOURCE PERSON  
DR. DEEPIKA CHAUDHARY  
(Associate Professor)**

**Date: 26 August 2022  
Time: 9:30 AM - 4:00 PM  
Mode: Offline  
Venue: De Morgan Block  
Computer Lab**

**\*\*\*LIMITED SEATS\*\*\***

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

**STUDENT COORDINATOR  
GAURAV CHIB 8437208855**

**Register Here**



**SCAN ME**

**INSTITUTION'S INNOVATION COUNCIL**  
University of Haryana



# EXPERT TALK ON EMERGING TRENDS & OPPORTUNITIES IN DIGITAL MARKETING

## SEPTEMBER 20, 2022

Mr. Ajay Aggarwal (Digital Marketing Trainer & Consultant) presented at a session on "Emerging Trends & Opportunities in Digital Marketing" held by the CSI Student Chapter under the direction of the Department of Computer Applications. He introduced the topic by outlining digital marketing and its effects in India. He discussed the fundamentals of digital marketing as well as the various career opportunities available. Alumni pushed students to expand their talents and emphasised how getting certificates from different online learning platforms helps with building a solid resume. He demonstrated some of his work and described how to register on the Fiverr website. Additionally, he displayed some of his work on this website's reviews and on his profile. Additionally, he discussed his time at Chitkara University. The resource people answered the students' questions, and the lesson turned out to be quite beneficial and instructive for the pupils.

**CHITKARA UNIVERSITY**

**CSI STUDENT CHAPTER**

**INSTITUTION'S INNOVATION COUNCIL**

### Emerging Trends & Opportunities in Digital Marketing

**VENUE**  
PULITZER HALL

**Mr. Ajay Aggarwal**  
Digital Marketing Trainer & Consultant

**DIGITAL MARKETING**

- Email Marketing
- Branding
- SMM
- Web Design
- Content Marketing
- App Development
- SEO

**SEPTEMBER 19, 2022**  
1:30 PM - 3:30 PM  
OFFLINE MODE

Under the aegis of  
**Department of Computer Applications**  
**Chitkara University-Punjab**



# ISTQB FOUNDATION LEVEL CHAPTER-2

## SEPTEMBER 28, 2022

An ISTQB certified tester foundation level (CTFL) chapter series, chapter-2, was organised by the CSI Student Chapter under the direction of the Department of Computer Applications. Ms. Smitha Menon conducted the session (senior consultant, verify software). She is a master at managing teams, comprehending users' complex business needs, and turning those needs into specifications that can be put into practice. She explained software development lifecycle models at the start of the session. She went on to talk about various testing types and levels. Also discussed with the students was maintenance testing. She advised students to enrol in ISTQB training programmes and certification through the Indian Testing Board. The resource person answered all the questions, and the lesson turned out to be very beneficial and educational for the students.



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



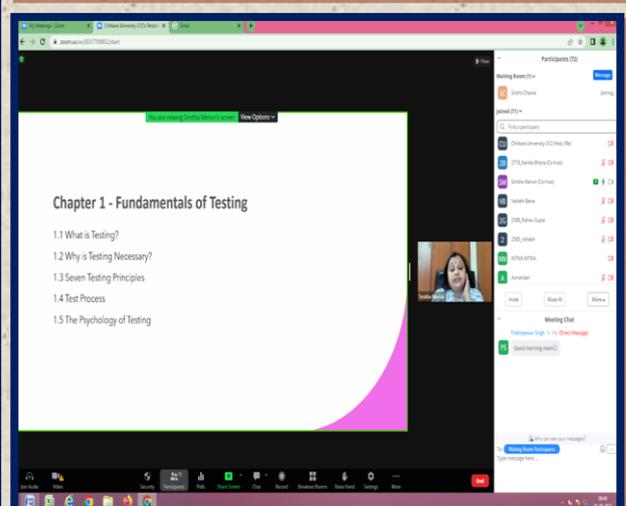
**Resource Person**  
**Smitha Menon**  
Senior Consultant  
Verify Software

Date: 28th September, 2022  
Time: 9:30 AM - 11:30AM  
Mode: Online



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





# WORLD ENVIRONMENT DAY

## JUNE 5, 2022

**“World Environment Day will keep reminding us of the wrong we did to our environment and the right we need to do to correct it all.”**

On June 5, 2022, Matrix Club, under the direction of the Department of Computer Applications, marked World Environment Day by hosting a Green Selfie Contest in association with National Service Scheme (NSS) and IIC, Chitkara University, Punjab. The "Plant and Click with Green" Selfie Competition aimed to increase student knowledge of environmental issues and encourage them to publicly express their dedication to preserving Mother Earth. "Only One Earth" is the theme of this year's World Environment Day. Department of Computer Applications and other departments' NSS volunteers passionately participated and committed to preserving the environment.



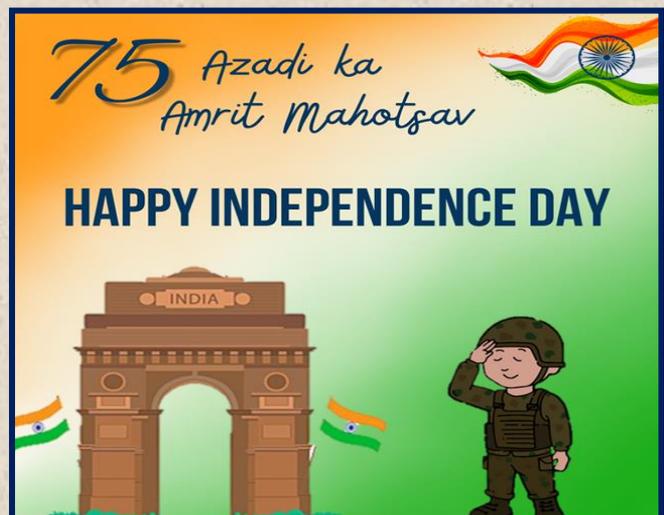
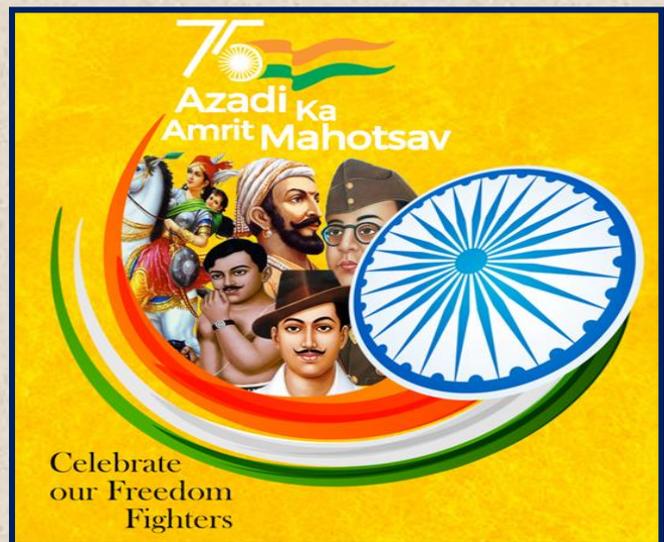
The poster features a central graphic of a hand holding a green leaf with a water droplet falling from it. Text on the poster includes: "GREEN SELFIE CONTEST on the occasion of WORLD ENVIRONMENT DAY", "Express your Love towards Environment Click a Selfie while Planting Saplings & Share", "Organized By Matrix Club under the Regis of Department Of Computer Applications in Collaboration with Institution's Innovation Council (IIC) & National Service Scheme (NSS) Chitkara University, Punjab", "Date - 5<sup>th</sup> June, 2022", and "Register Here - <https://forms.gle/2j1sRyUQynKPI23M9>". Logos for Chitkara University, Matrix Club, Institution's Innovation Council, and Sustainable Development Goals are also present.



# DIGITAL POSTER MAKING COMPETITION

## AUGUST 15, 2022

Azadi Ka Amrit Mahotsav is devoted to the Indian people who, in addition to playing a key role in the country's progress to this point, also possess the strength and capacity to realise Prime Minister Narendra Modi's goal of enacting India 2.0, inspired by the spirit of Aatmanirbhar Bharat. On August 15, 2022, Independence Day was observed by Matrix Club under the sponsorship of the Department of Computer Applications at Chitkara University in Punjab. The competition for digital posters was organised on the topics of 1) Azadi ka Amrit Mohatsav and 2) Azad Hind Fauz. A total of thirty-three students from the department took part in the competition, and they helped make it a success by creating stunning digital posters and reflecting on significant historical events.



# NATIONAL SPORTS DAY

## AUGUST 29, 2022

**“The five S’s of sports training are: stamina, speed, strength, skill, and spirit; but the greatest of these is spirit.” —Ken Doherty**

Matrix club, under the direction of the Department of Computer Applications at Chitkara University in Punjab, and in partnership with the University Sports Board (USB), celebrated National Sports Day on August 29, 2022 and staged a number of sporting events. In the sporetorium, competitions for games including table soccer, carrom, chess, and badminton (boys and girls categories) were held. The students participated in an exhilarating way, showing excellent sportsmanship and teamwork. A total of one hundred thirty-four students from throughout the university took part, competing against one another for the best spot in the competition. Even after competing against one another, the team members showed incredible teamwork, leadership, and management skills as the event came to a close. Trophies, gifts, and certificates were awarded to the winners.



CHITKARA UNIVERSITY  
FIT INDIA  
CHITKARA UNIVERSITY SPORTS BOARD  
MATRIX DISCOVER YOURSELF

On The Occasion Of  
**NATIONAL SPORTS DAY**

University Sports board in collaboration with Matrix club is organizing  
**SPORTS DAY COMPETITION**

- CHESS
- BADMINTON
- CARROM
- TABLE SOCCER

29 August 2022  
9:30 AM Onwards

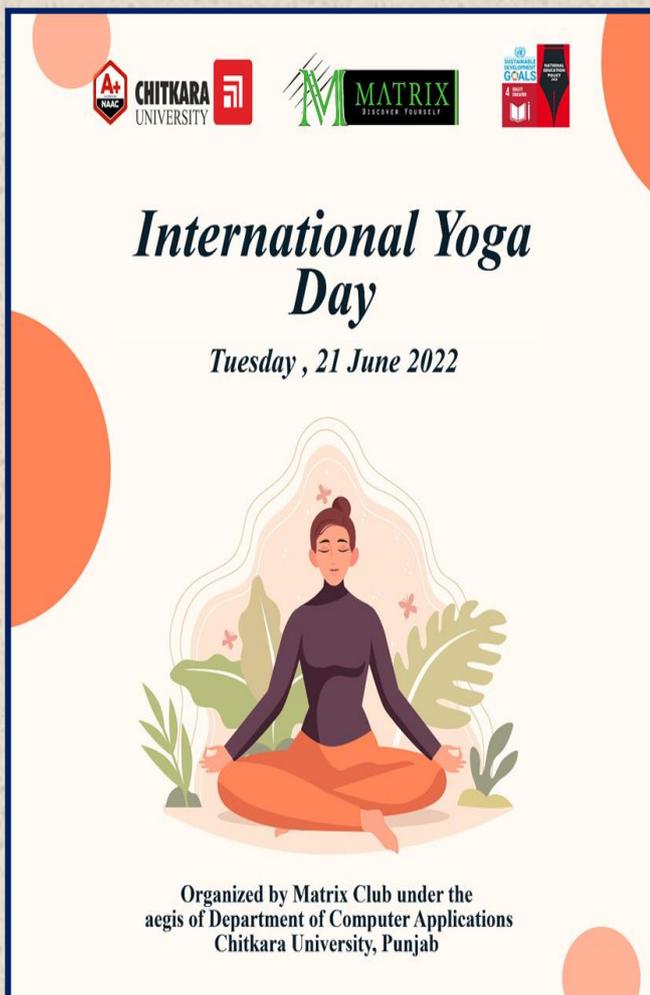


# INTERNATIONAL YOGA DAY

JUNE 21, 2022

**“Yoga is a symbol of universal aspiration for health and well-being. It is a health assurance in zero budget”**

Yoga is a trend that has grown over time; in fact, it has created trends for sustaining both physical and mental well-being. Each yoga asana is essential to developing flexibility, strength, balance, and harmony. Following the trend, Matrix Club under the aegis of the Department of Computer Applications observed International Yoga Day on June 21, 2022, with participation from students, teachers, and staff who will practised yoga at home. Each student contributed a photo of themselves doing a yoga pose at home or in a natural setting. Participants chose indoor or outdoor venues to practise yoga in order to raise awareness for this day, and they had pleasure in the day by appreciating its significance.



The poster features logos for Chitkara University, Matrix Club (Discover Yourself), and a 'GOALS' icon. The central text reads 'International Yoga Day' and 'Tuesday, 21 June 2022'. Below this is an illustration of a woman in a meditative pose. At the bottom, it states: 'Organized by Matrix Club under the aegis of Department of Computer Applications Chitkara University, Punjab'.



# TEACHER'S DAY CELEBRATIONS

## SEPTEMBER 5, 2022

On September 5, 2022, Chitkara University hosted the Teacher's Day Program. Five faculty members from the Department of Computer Applications took part in the university-level theatre performance. This year's celebration of teacher's day was nothing short of a blockbuster, with a Bollywood flair that honoured the teaching profession. Our movies have given us some extremely great teachers who not only gave us amazing performances, but also left us with some life lessons we will always remember. Various departments were brought together, and they were required to prepare and present a show. This act may have included dancing, performing a monologue, improving, singing, acting, or any other type of creative expression from any genre. The Applied Science Department and the Department of Computer Applications were combined, and the faculty members put on a show based on the film "3 Idiots." The crowd loved it, and Ms. Vandana, an associate professor in the department of computer applications, won a medal specifically for her performance.



## RESEARCH & PUBLICATIONS

Chahal, J.K. and Sharma, A., 2021, December. Improving Accuracy of crime data using K-Means and Decision Tree Techniques. In 2021 IEEE International Conference on Technology, Research, and Innovation for Betterment of Society (TRIBES) (pp. 1-4). IEEE.

Mittal, R., Malik, V., Singh, J., Singh, V. and Mittal, A., 2022. Web Usage Mining Process, Tools and Practices. In Recent Innovations in Computing (pp. 449-457). Springer, Singapore.

Kaushal, R.K., Kumar, N., Panda, S.N. and Kukreja, V., 2022. Identification of Effective Scaffolding to Novices Using CBLE. Journal of Engineering Education Transformations, 35(4).

Dahiya, N., Gupta, S. and Garg, M., 2022, May. Diabetes screening using machine learning algorithm. In AIP Conference Proceedings (Vol. 2357, No. 1, p. 100019). AIP Publishing LLC.

Sharma, D. and Singh, J., 2022. A Comparative Analysis of Healthcare Monitoring Systems Using WSN. ECS Transactions, 107(1), p.8695.

Bali, N. and Singla, A., 2022. Role of AI in the Field of Agriculture: A Review. ECS Transactions, 107(1), p.6677.

Modi, N. and Singh, J., 2022. Role of Eye Tracking in Human Computer Interaction. ECS Transactions, 107(1), p.8211.

Kaur, R., Sandhu, J.K., Pundir, M., Singh, G. and Mehta, A., 2022. Towards a Systematic Threat Modeling Approach for Wireless Sensor Networks. ECS Transactions, 107(1), p.8855.

Sharma, S., Mittal, R. and Goyal, N., 2022. An Assessment of Machine Learning and Deep Learning Techniques with Applications. ECS Transactions, 107(1), p.8979.

Hamid, M.A. and Singh, J., 2022. EEG Signal Processing for Detection of Colour Vision Deficiencies. ECS Transactions, 107(1), p.10053.

Kaushal, P., Khurana, M. and Ramkumar, K.R., 2022. A Systematic Review of Swarm Intelligence Algorithms to Perform Routing for VANETs Communication. ECS Transactions, 107(1), p.5027.

Sharma, D., Sharma, B., Mantri, A., Goyal, N. and Singla, N., 2022. Dhvani Fire: Aerial System for Extinguishing Fire. ECS Transactions, 107(1), p.10295.

Dahiya, N., Gupta, S. and Singh, S., 2022. A Review Paper on Machine Learning Applications, Advantages, and Techniques. ECS Transactions, 107(1), p.6137.

## RESEARCH & PUBLICATIONS

Kaushal, R.K., Kumar, N., Singhal, S., Singh, S. and Singh, H., 2022. Locking Device for Physical Protection of Electronic Devices. ECS Transactions, 107(1), p.1769.

Bajaj, J.S., Kumar, N. and Kaushal, R.K., 2022. Feasibility Study on Amalgamation of Multiple Measures to Detect Driver Drowsiness. ECS Transactions, 107(1), p.1951.

Kaur, N., 2022, April. Face and Fingerprint recognizing multimodal biometrics system. In 2022 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE) (pp. 1771-1776). IEEE.

Kaur, P., Giri, M., Kaur, R., Sharma, A. and Bhan, M., 2022. Covid-19 Challenges for Digital Education and Critical Analysis. Rising Threats in Expert Applications and Solutions, pp.229-235.

Kaur, P., Chaudhary, D., Molla, K.Z. and Singh, J., 2022, May. Demystifying corona virus disease (COVID-19) using graph data science. In AIP Conference Proceedings (Vol. 2357, No. 1, p. 040026). AIP Publishing LLC.

Singh, A., Kaur, A. and Gupta, D., 2022. Analysis of Approaches of Trustability and Issues in Cloud Computing. ECS Transactions, 107(1), p.5989.

Rattan, V., Sharma, S., Mittal, R. and Malik, V., 2021, September. Applying SMOTE with Decision Tree Classifier for Campus Placement Prediction. In 2021 International Conference on Computing, Communication and Green Engineering (CCGE) (pp. 1-6). IEEE.

Kaur, P., Giri, M. and Kaur, R., 2022, May. A Systematic Review to Evaluating Cyber Security Attacks in Smart Cities. In 2022 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing (COM-IT-CON) (Vol. 1, pp. 762-766). IEEE.

Tyagi, N., Singh, J. and Singh, S., 2022. Sensor Based Wearable Devices for Road Navigation. ECS Transactions, 107(1), p.8863.

Bajaj, J.S., Kumar, N. and Kaushal, R.K., 2022. AI Based Novel Approach to Detect Driver Drowsiness. ECS Transactions, 107(1), p.4651.

Bajaj, V. and Kaur, N., 2022. Popular Physiological Trait Based Biometric Authentication Systems. ECS Transactions, 107(1), p.6515.

Kaushal, R.K., Kumar, N., Singh, S., Khare, A. and Singh, H., 2022. State-of-Art of Face Shields Manufactured through Additive Manufacturing, Issues and Mitigation Approaches. ECS Transactions, 107(1), p.1613.

## PATENTS

Ms. Neelam Dahiya, Dr. Sartajvir Singh, Dr. Sheifali Gupta filed a patent titled *Geospatial Sensing Device* vide application number 202211038904.

Dr. Ruchi Mittal, Dr. Amit Mittal, Dr. Jaiteg Singh, Dr. Varun Malik, Dr. Vikram Singh and Mr. Vikas Rattan filed a patent titled *Portable Matki* vide application number 367340-001.

Dr. Ruchi Mittal, Mr. Yash Mittal, Dr. Amit Mittal, Dr. Jaiteg Singh, Dr. Varun Malik, Dr. Jolly Masih filed a patent titled *Travel-Friendly Cloth Dryer* vide application number 367478-001.

Dr. Ruchi Mittal, Mr. Yash Mittal, Dr. Amit Mittal, Dr. Jaiteg Singh, Dr. Varun Malik, Dr. Vikram Singh, Dr. Anshika Prakash filed a patent titled *Laptop Protector Belt* vide application number 367935-001.

Dr. Rajesh Kumar Kaushal, Mr. Mohit Kumar, Dr. Manish Sharma, Dr. Williamjeet Singh, Dr. Jeetender Kumar, Ms. Shilpi Garg filed a patent titled *Portable Projector* vide application number 367939-001.

Dr. Amandeep Kaur, Mr. Amanpreet Singh, Dr. Geeta Rani filed a patent titled *Glass Mug With Snack Holder* vide application number 368261-001.

Ms. Puninder Kaur, Mr. Aayushman, Ms. Geeta, Ms. Neelam Dahiya, Ms. Jasmeen Kaur Chahal, Ms. Payal Kaushal filed a patent titled *Adjustable Broom Stick With Protective Cover* vide application number 371216-001.

Ms. Puninder Kaur, Ms. Geeta, Ms. Rajwinder Kaur, Ms. Neelam Dahiya, Ms. Jasmeen Kaur Chahal, Ms. Payal Kaushal filed a patent titled *Hand-Held Cutlery Kit* vide application number 371212-001.

Ms. Vandana, Ms. Amapreet Singh filed a patent titled *Multiholder Duster* vide application number 366589-001.

Ms. Jasmeen Kaur Chahal, Ms. Payal Kaushal, Dr. Vidhyotma, Ms. Rajwinder Kaur, Dr. Gurjinder Singh, Ms. Puninder Kaur filed a patent titled *Pedal Dustbin With Detachable Dustpan* vide application number 365980-001.

Ms. Payal Kaushal, Ms. Jasmeen Kaur Chahal, Dr. Vidhyotma, Ms. Rajwinder Kaur, Dr. Gurjinder Singh, Dr. Akhintera Kumar Khare, Mr. Jaspreet Singh Bajaj, Ms. Puninder Kaur, Ms. Taruna Sharma filed a patent titled *3-In-1 Pencil* vide application number 365977-001.

Dr. Akhilendra Khare, Dr. Jaspreet Singh Bajaj, Dr. Maninderjit Singh Khanna, Jaiteg Singh, Ms. Payal Kaushal, Ms. Taruna Sharma filed a patent titled *Sata Pipe With Water Meter For Irrigation* vide application number 366668-001.

Mr. Amanpreet Singh, Dr. Jaiteg Singh, Dr. Amandeep Kaur, Dr. Deepali Gupta, Ms. Jasdeep Singh filed a patent titled *Battery Operated Heating Tiffin With Lid (Set)* vide application number 365719-001.

Dr. Deepika Chaudhary, Dr. Jaiteg Singh, Dr. Nishu Bali, Ms. Neelam filed a patent titled *Foldable Bottle Cap* vide application number 365972-001.

Dr. Ruchi Mittal, Mr. Yash Mittal, Akhib Khan Bahamani, Dr. Amit Mittal, Dr. Jaiteg Singh, Dr. Varun Malik filed a patent titled *Study Chair* vide application number 369309-001.

Dr. Ruchi Mittal, Dr. Varun Malik, Dr. SB Goyal, Dr. Jaiteg Singh, Dr. Sachin Ahuja, Dr. Vikram Singh filed a patent titled *Embedded Tool With Enhanced Classification Performance* vide application number 202211046852.

## PLACEMENTS - MCA

S No	Roll Number	Name	Company
1	2110981503	Amber Mehta	Edifecs Technologies Pvt Ltd
2	2110981505	Ashutosh Sethi	Capgemini/Edifecs
3	2110981508	Diya	Edifecs Technologies Pvt Ltd
4	2110981509	Gunjan Mehta	Capgemini
5	2110981516	Mehak Luthra	Capgemini
6	2110981522	Sachin	Drish Infotech Limited
7	2110981523	Shaheen Khan Matania	Capgemini
8	2110981525	Sparsh Goyal	Capgemini
9	2110981527	Suhani Saxena	Capgemini
10	2110981532	Amit Kumar	Jupitice Justice Technologies Pvt. Ltd.
11	2110981548	Kajal	Schoolpad Tecnologies Pvt. Ltd.
12	2110981556	Nikhil Kumar	Capgemini
13	2110981562	Raghav Malik	Capgemini
14	2110981563	Rajat Dua	Capgemini
15	2110981568	Rudrish Rana	Capgemini
16	2110981571	Yatin Bajaj	Epam Systems
17	2110981573	Paras Kumar Sharma	Edifecs Technologies Pvt Ltd
18	2110981574	Utsav Chugh	Capgemini
19	2110981575	Aayush Wadhwa	Edifecs Technologies Pvt Ltd
20	2110981578	Sanyam Chawla	Capgemini
21	2110981578	Sanyam Chawla	Edifecs Technologies Pvt Ltd
22	2110981582	Archit Bhatt	Edifecs Technologies Pvt Ltd
23	2110981597	Ayush Thakur	Capgemini
24	2110981613	Suman Thakur	Capgemini
25	2110981614	Lovish Kumar	Jupitice Justice Technologies Pvt. Ltd.
26	2110981615	Amandeep Singh Bhatia	Capgemini/Edifecs

# A Brain Teaser

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

## Solution of Last Issue

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

## 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”

**CHITKARA UNIVERSITY, PUNJAB**

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