

CHITKARA
UNIVERSITY



Nouvelle Liberation

Volume 7, Issue 2

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

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

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DR. B. R. AMBEDKAR REMEMBRANCE DAY

APRIL 14, 2021

Oratory Competition

Department of Computer Applications under the aegis of National Service Scheme (NSS), Chitkara University and in collaboration with Equal Opportunity Cell commemorated Dr. B. R. Ambedkar Jayanti on April 14, 2021 wherein an Oratory Competition was organized on the theme of “*Racial Discrimination and Mental Health*”.

Every year, April 14 is observed as Ambedkar Jayanti to celebrate Dr. Bhim Rao Ambedkar’s birthday. Often hailed as the father of the Indian Constitution, for being instrumental in drafting it, he was born in 1891. His life was spent fighting against inequalities, bringing social reforms and propagating progressive ideologies.

Thirty five NSS volunteers of various departments participated in the competition and made the event a success by pledging to eradicate social discrimination and casteism.



WINNER’S LIST



<u>Position</u>	<u>Name</u>	<u>Course</u>
1 st	Dharamveer Kriti	CCE CCE
2 nd	Kanishq Awasthi Sukhjot Kaur	CSHS BCA
3 rd	Shambhavi Harleen Himani	B. Pharma. CCE CCE



SEMINAR ON DATA BREACHES AND THREATS TO DIGITAL WORLD

APRIL 24, 2021

Matrix Club under the aegis of Department of Computer Applications in collaboration with Institute Innovation Council (IIC) organized hands-on session on data breaches and threats to digital world on April 24, 2021. The session was delivered by Mr. Paras Arora, a certified ethical hacker working as a Security Analyst in Detox Technologies and also a member of Synack Red Team as a Bug Bounty Hunter and listed in World's top 600 hackers on BugCrowd.

The objective of the event was to spread awareness about how data is leaked on hacking forums. The expert shared views and showed live Dark Web and its surfing. The expert emphasized on the concept and gave ideas to keep our important data safe and to defend digital threats.

130 students and faculty members attended the session with great passion and interest in online mode through Zoom platform.

Hands-On Session
Data Breaches and Threats to Digital World
Mode : Online

Speaker : **Mr. Paras Arora**
(Cyber Security Analyst)

Date : **24th April, 2021**
11 am - 1 pm

Organized by
Matrix Club under the Aegis of
Department of Computer Applications
in Collaboration with Institution's Innovation Council,
Chitkara University

For Details Contact :
Divya : 81681 46064
Hardik : 74193 00378

Hack On :
<https://forms.gle/FdWzA5fzSYksKefZ48>

HOW MUCH SECURE IS YOUR ONLINE DATA?

Few Questions

- How many of you use Google? (Data Tracking)
- How many of you use Facebook, Instagram, Snapchat etc ? (Data Tracking and Breaches Daily)
- Gamers In the House? (Device Compromise)

RAID FORUMS

Search results for 'RAID FORUMS' showing a forum post titled 'How to get to know the server...'. The post discusses server information and provides a link to a server IP address.

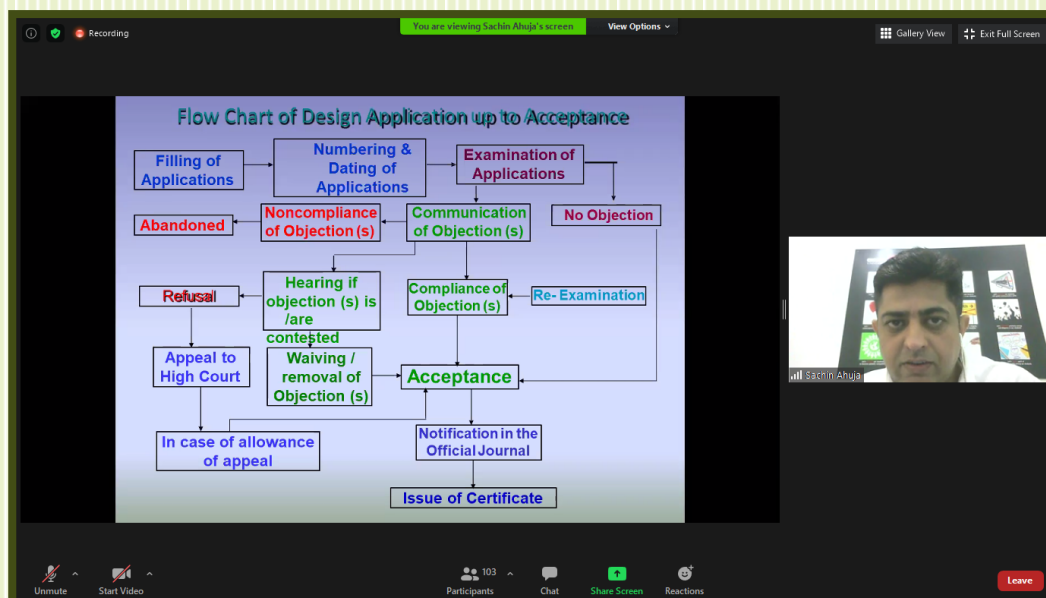
EXPERT TALK ON “NUANCES OF INDUSTRIAL DESIGN” APRIL 26, 2021

Computer Society of India (CSI) Student Chapter, under the aegis of the Department of Computer Applications, Chitkara University, Punjab and in association with IIC have Celebrated "WORLD INTELLECTUAL PROPERTY DAY" by organizing an expert talk on "Nuances of Industrial Design" on April 26, 2021. The resource person of the expert talk was Dr. Sachin Ahuja (Professor and Director-Research), Chitkara University, Punjab.

Dr. Ahuja communicated the importance of this day and encouraged all to consider their ideas as an asset. He conveyed the importance of patenting and copyrighting. He also elaborated the procedure of registering patents and illustrated how various types of patents can be generated.

The expert talk received an overwhelming response. 137 Students and faculty members including students and faculties from other universities and colleges participated in the talk. Many participants raised their queries and cleared their doubts regarding IPR.

Dr. Jaiteg Singh (Professor and Dean), Department of Computer Applications, Chitkara University, Punjab extended vote of thanks to Dr. Sachin Ahuja for sparing his valuable time and enlightening the participants on such an important topic.



NATIONAL TECHNOLOGY DAY

MAY 11, 2021

MULTI – MEDIA PRESENTATION

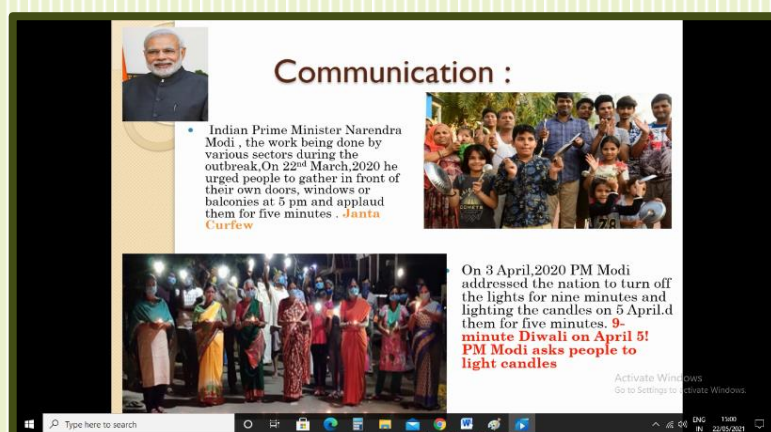
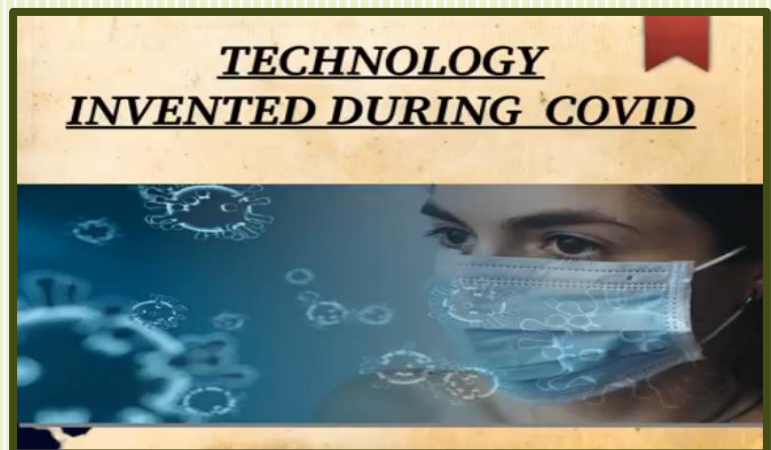
Theme: Innovation in Technology during COVID times

National Technology Day is not just for scientists and engineers but also for anyone associated with ideating, innovating, and facilitating the dissemination of knowledge, information and taking the products or benefits to people at the grassroots level. This year, it will be the 30th National Technology Day, celebrating the huge advancements India has made in the science and technology sector.

Department of Computer Applications under the aegis of National Service Scheme (NSS), Chitkara University, Punjab celebrated National Technology Day on May 11, 2021 wherein students of various departments participated in multi-media presentations on the topic of “Innovation in Technology” during the ongoing pandemic. Students presented beautiful and informative presentations in the form of the videos.



The poster features the Chitkara University logo at the top left and the NSS logo at the top right. The text reads: "Department Of Computer Applications Celebrates National Technology Day In Collaboration with National Service Scheme (NSS) Chitkara University Multi - Media Presentation Theme : Innovation in Technology During COVID Times | 11th May, 2021 | Contact 7 Register 7 Ishmita : 97076 10001 Rishab : 98784 01973 https://forms.gle/40g MZG0kye7WdFy5 Participants will get e-Certificate".



The screenshot shows a presentation slide titled "Communication :". It includes a photo of Indian Prime Minister Narendra Modi and a group of people. The text on the slide reads: "Indian Prime Minister Narendra Modi : the work being done by various sectors during the outbreak. On 22nd March, 2020 he urged people to gather in front of their own doors, windows or balconies at 5 pm and applaud them for five minutes. Janta Curfew". Below this, it says: "On 3 April, 2020 PM Modi addressed the nation to turn off the lights for nine minutes and lighting the candles on 5 April. d them for five minutes. 9-minute Diwali on April 5! PM Modi asks people to light candles". The Windows taskbar is visible at the bottom of the screenshot.

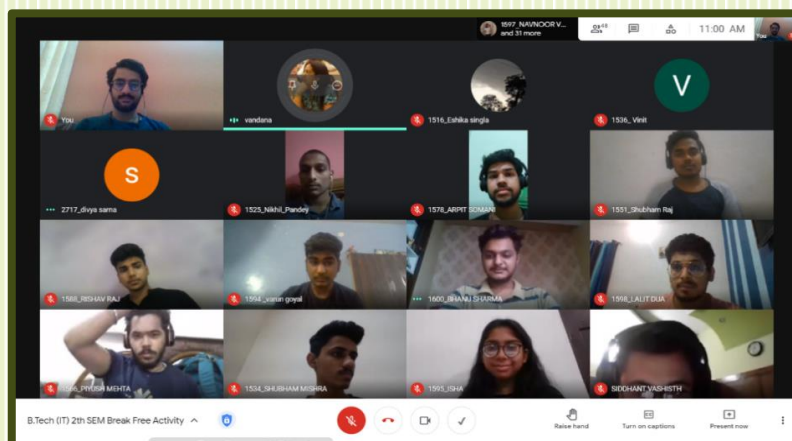
BREAK-TIME ACTIVITY

MAY 20-21, 2021

“Be so busy that you have no time to be sad”

Matrix Club under the aegis of Department of Computer Applications organized a two-day break-time event on May 20-21, 2021. The idea of break-time activity is to keep the students involved and engaged on the virtual platform(s) during COVID times.

The activities were mainly based on academics and response sheets were designed in the form of crosswords, puzzles, code bug finder, multiple choice questions, word guessing and fun games. The students enjoyed the activities and participated wholeheartedly on the virtual platform. The idea of covering the academic subjects in the form of fun activities and quizzes inculcate the habit of learning and solving the puzzles through active learning.



CODIGO

MAY 22, 2021

Computer Society of India (CSI) Student Chapter, under the aegis of Department of Computer Applications, Chitkara University, Punjab, and in association with Institution's Innovative Council (IIC) organized CODIGO on May 22, 2021.



CHITKARA UNIVERSITY

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

COMPUTER SOCIETY OF INDIA
ESTD. 1969

CSI Student Chapter
Department of Computer Applications
Chitkara University, Punjab
in association with
INSTITUTION'S INNOVATION COUNCIL (IIC)

CODIGO

Let's Debug It

DOMAIN :: C Programming & JAVASCRIPT

22-MAY-2021(SATURDAY)

TIME-9:30AM

Certificate for Winners & Participants

FREE REGISTRATIONS

<https://forms.gle/wV1Na4s69nFje5ZA>

STUDENT COORDINATOR
GAURAV CHIB-8437208855

CODIGO was debugging based online competition in which students identified bugs in the code snippets. The domain of debugging competition was C programming and Java Script.



WINNER'S LIST

<u>Position</u>	<u>Name</u>	<u>Course</u>
1 st	Anubhav Monga Gurleen Kaur	B.Tech (IT) MCA
2 nd	Shagun Thukral	BCA
3 rd	Sahil Jaithal	MCA

TECH-BREAK

MAY 27-28, 2021

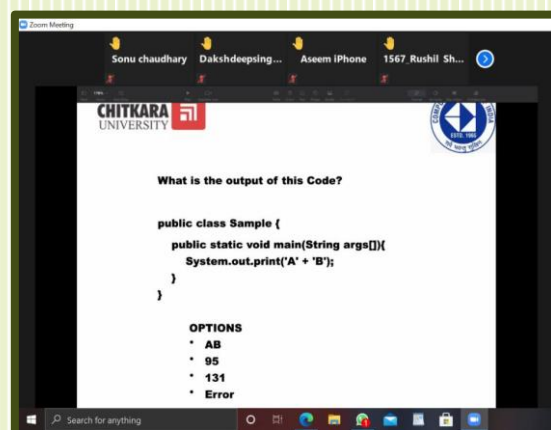
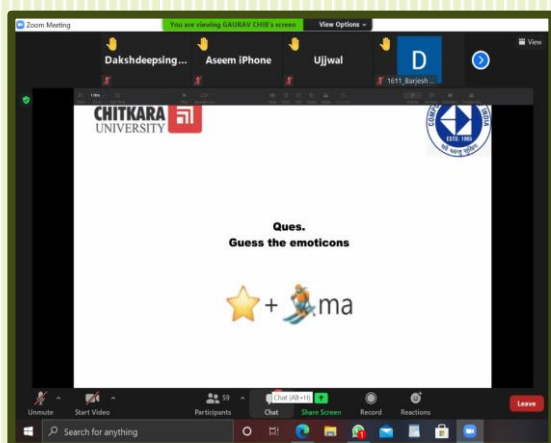
Computer Society of India (CSI) Student Chapter, under the aegis of Department of Computer Applications, Chitkara University, Punjab, organized a two-day 'TECH BREAK' (Break-time activity) on May 27-28, 2021. The event was aimed to engage the students in fun learning and to recall the various concepts that they have learnt in their current semester in a more interesting way. The event was scheduled for every course being offered in the department. Different activities were scheduled for the courses such as Tech-Emotions, Kriss-Kross, Emoji-I-C etc.

The event was conducted in two parts. Firstly, core team members of CSI student chapter displayed Emojis, puzzles, fill-in-the-blanks to encourage interaction of students. Secondly, google form was provided to the participants with more questions to answer. Students thoroughly enjoyed the way the event was organized and the new ways of learning.



Various Activities conducted for the courses

<u>Sr.No</u>	<u>Course</u>	<u>Activity Name</u>
1.	BCA 2	TECH-EMOTIONS
2.	BCA 4	IT'S THE BUG END
3.	BCA6	KRISS-KROSS
4.	MCA 4	FILL TO FULC
5.	B.Tech(IT) 2	EMOJI-I-C
6.	B.Tech(IT) 4	Exemplify display



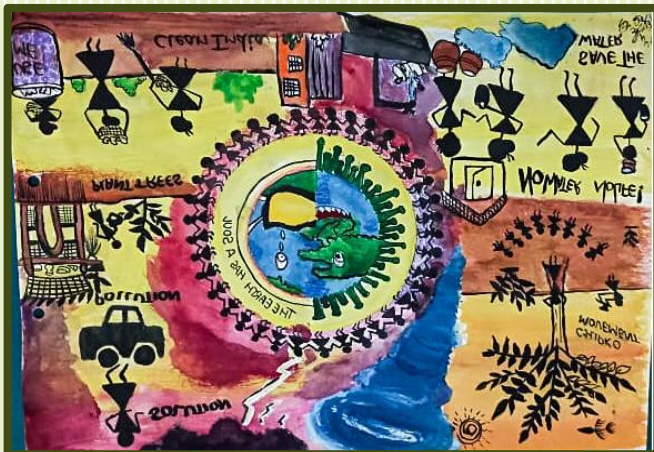
WORLD ENVIRONMENT DAY

JUNE 5, 2021

Department of Computer Applications under the aegis of National Service Scheme (NSS), Chitkara University celebrated World Environment Day on June 5, 2021 wherein Warli art painting competition as well as photography competition was held on the theme of “Save Environment and Nature”. A number of NSS volunteers of various departments participated in the competition and made the event a success by depicting messages of “Save the Environment” on their canvas and showcased the beauty of our environment through their camera lens.

World Environment Day offers a global platform for inspiring positive change. It pushes for individuals to think about the way they consume; for businesses to develop greener models; for farmers and manufacturers to produce more sustainably; for governments to invest in repairing the environment; for educators to inspire students to take action; and for youth to build a greener and more sustainable future.

CHITKARA UNIVERSITY
Department Of Computer Applications
CELEBRATING
WORLD ENVIRONMENT DAY
In Collaboration with
National Service Scheme (NSS)
Chitkara University
Warli Art Painting Competition
(Depicting Save Environment)
Photography Competition
(Clicking Nature Through Your Camera Lens)
Date : 5th June, 2021
Register Here :
<https://forms.gle/2nrrsEFAECPFD>
Participant will get e-Certificate



FACULTY ACHIEVEMENTS

Dr. Jaiteg Singh conducted a webinar on “Effective Student Engagement during Online Classes” at Department of Computer Applications, Chitkara University, Chitkara

Dr. Jaiteg Singh acted as a reviewer for Library Hi Tech Journal, Emerald Publishing.

Dr Jaiteg Singh has given the judgement in “Essay Writing” event of Online National Level IT-Fest on June 18, 2021 organized by Department of Computer Science, Govt. PG College, Ambala Cantt., Haryana.

Dr. Ruchi Mittal, Mr. Vikas Rattan, Dr. Varun Malik, Dr. Amit Mittal, Dr. Jaiteg Singh, Dr. Preetinder Singh Brar filed a patent titled “Diya with Wick Guard” vide application no. 345838-001.

Dr. Ruchi Mittal chaired a technical session on Computation Intelligence, Image Processing and IOT at 2nd International Conference of Emerging Technology (INCET 2021) technically co- sponsored by the IEEE Bangalore Section on May 23, 2021.

Dr. Ruchi Mittal and Dr. Amandeep Bhullar conducted a workshop on “Research Methods and Report Writing” from June 14, 2021 to June 26, 2021 at Chitkara University, Punjab.

Dr. Ruchi Mittal acted as a reviewer for International Journal of Intelligent Systems Technologies and Applications, Inderscience Publishers and IEEE International conference to be held at University of Bahrain, Bahrain.

Dr. Deepika Chaudhary, Dr. Jaiteg Singh, Ms. Nishu Bali, and Mr. Monarch filed a patent titled ‘DIYA’ vide application no. 343973-001.

Dr. Maninder Khanna has delivered an expert talk on "Advanced Computer Skills" under Online National Lecture series 1 conducted by Swami Swatantranand Memorial College, Dinanagar, Gurdaspur (Punjab) Affiliated to GNDU, Amritsar on April 16, 2021.

Dr. Rajesh Kaushal, Dr. Naveen Kumar, Dr. S.N.Panda, and Mr Simranjeet Singh filed a patent titled “Locking Device For Laptop” vide application no. 340484-001

Dr. Naveen Sharma, Dr. Rajesh Kaushal, Dr. S.N.Panda, Mr. Simranjeet Singh, Ms. Jyoti Sharma, Dr. Ruchi Mittal, and Ms Shilpi Singhal filed a patent titled “DEVICE FOR INTERACTIVE ONLINE LEARNING” vide application no. 344305-001

Dr. Geeta Rani filed a patent titled “Water Purification System” vide application no. 202111029033.

RESEARCH & PUBLICATIONS

Singh J., Thakur D., Gera T., Shah B., Abuhmed T. and Ali F., Classification and Analysis of Android Malware Images Using Feature Fusion Technique, In IEEE Access, vol. 9 (pp. 90102-90117). IEEE.

Arya R., Singh J., Kumar A., A survey of multidisciplinary domains contributing to affective computing, In Computer Science Review, Vol. 40, Elsevier.

Gill R., Singh J. (2021) A Review of Feature Extraction Techniques for EEG-Based Emotion Recognition System. In Soft Computing: Theories and Applications. Advances in Intelligent Systems and Computing, vol 1381. (pp 83-95) Springer.

Modi N., Singh J. (2021) A Review of Various State of Art Eye Gaze Estimation Techniques. In Advances in Computational Intelligence and Communication Technology. Advances in Intelligent Systems and Computing, vol 1086 (pp. 501-510) Springer.

Mittal, R., Malik, V., Rattan, V., & Jhamb, D. Performance Comparison of Tree-Based Machine Learning Classifiers for Web Usage Mining. In Proceedings of International Conference on Communication, Circuits, and Systems: IC3S 2020 (p. 379). Springer Nature.

Malik, V., Mittal, R., Singh, J., & Rattan, V. (2021, March). A Hybrid Approach to Improve Classification Performance using WMOT Tool. In 2021 International Conference on Emerging Smart Computing and Informatics (ESCI) (pp. 688-691). IEEE.

Rattan, V., Mittal, R., Singh, J., & Malik, V. (2021, March). Analysing the Application of SMOTE on Machine Learning Classifiers. In 2021 International Conference on Emerging Smart Computing and Informatics (ESCI) (pp. 692-695). IEEE.

Malik, V., Mittal, R., Singh, J., & Chand, P. K. Performance Evaluation Based on Classification of Web Log Data: A Machine Learning Approach. In Proceedings of International Conference on Communication, Circuits, and Systems: IC3S 2020 (p. 363). Springer Nature.

Kaur, P., Chaudhary, D., Singh, J., NORA and RODS the two Data Mining Technologies for National Security-A Review, (2021), International conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2021, 2021, pp. 42-45, 9404593.

Chaudhary, D., Kaur, P., Molla, K.Z., Singh, J., Empowering Cities through Data Analytics (2021) International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2021, 2021, pp. 23-28, 9404552.

Nagpal, P., Chaudhary, D., Singh, J., Knowing the unknown: Unshielding the mysteries of semantic web in health care domain, CEUR Workshop Proceedings, (2021), 2823, pp. 31-43.

Singh S, Panda SN, Kaushal RK, Kumar N, Raheja JL. Design and Development of IoT Enabled Hybrid Wheelchair cum Bed. In 2021 International Conference on Emerging Smart Computing and Informatics (ESCI) 2021 Mar 5 (pp. 711-715). IEEE

Kaushal RK, Kumar N, Panda SN, Sood K. Effectiveness of Multimedia Design Principles in Computer Animations. In 2021 International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE) 2021 Mar 4 (pp. 780-783). IEEE.

RESEARCH & PUBLICATIONS

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Gandhi V., Chahal J.K., Singh J. (2021) A Case Study: Haute Fashion Boutique e-Shopping. In Advances in Mechanical Engineering. Lecture Notes in Mechanical Engineering. (pp 91-100) Springer.

~~~~~  
Bajaj JS, Kumar N, Kaushal RK. Comparative Study to Detect Driver Drowsiness. In 2021 International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE) 2021 Mar 4 (pp. 678-683). IEEE.

~~~~~  
V. , Kaur Navdeep, "Analytical Review of Biometric Technology employing vivid modalities" in International Journal of Image and Graphics, Vol. 22 (2021) 2250004.

~~~~~  
V., Kaur Navdeep, "A study of biometric Identification and Verification System" published in IEEE Explore 2021 International Conference on Advanced Computing and Innovative Technologies in Engineering (ICACITE), Greater Noida, India, pages 60-64.

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Bali, N., & Singla, A. (2021). Emerging Trends in Machine Learning to Predict Crop Yield and Study Its Influential Factors: A Survey. Archives of Computational Methods in Engineering, 1-18.

~~~~~  
Kaur R, Sandhu JK. A Study on Security Attacks in Wireless Sensor Network. In 2021 International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE) 2021 Mar 4 (pp. 850-855). IEEE.

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Kaur R, Sandhu JK, Sapra L. Machine Learning Technique for Wireless Sensor Networks. In 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC) 2020 Nov 6 (pp. 332-335). IEEE.

## STUDENTS ACHIEVEMENTS

Amit Kumar (BCA) got 2<sup>nd</sup> position in 4 over 4 player Cricket Tournament organised by Chitkara University Sports Board held on April 10, 2021.

Paras Pruthi (BCA) got a completion certificate for course “Security Compliance and Identity” offered by Microsoft on May 7, 2021.

Jatin (BCA) got a completion certificate for course “The Bits and Bytes of computer Networking” offered by Coursera on May 13, 2021.

Harinder Singh (BCA) got an appreciation for the Valuable Research in Cyber Securing in event “ Responsible Security Vulnerability Disclosure” organised by ACT Bug Bounty Team on April 7,2021

Rhythm Rana (BCA) got completion Certificate for course “AWS IOT: Developing and Deploying an Internet of Things” offered by Coursera on May 20, 2021.

Rhythm Rana (BCA) got completion Certificate for course “Responsive Web Design” offered by SOLO Learn on May 25, 2021.

Mehak (BCA) got completion Certificate for course “The Bits and Bytes of Computer Networking” offered by Coursera on May 13, 2021.

Gagandeep Kaur (BCA) got completion Certificate of course “The Bits and Bytes of Computer Networking Certificate” offered by Coursera on May 22, 2021.

Shargun Thukral (BCA-Networking) got 2<sup>nd</sup> position in CODIGO competition organised by Computer Society of India (CSI) Student Chapter, under the aegis of the Department of Computer Applications, Chitkara University, Punjab held on May 22, 2021.

Arashdeep Kaur (BCA-Networking) got 2<sup>nd</sup> position in Essay Writing competition under the aegis of NSS, Chitkara University, Punjab held on April 21, 2021.

Sukhjot Kaur (BCA) got 1<sup>st</sup> position in Poetry on Rabindranath Tagore under the aegis of NSS, Chitkara University, Punjab held on May 7, 2021.

Sukhjot Kaur (BCA) got 2<sup>nd</sup> position in Poetry Competition under the aegis of NSS, Chitkara University, Punjab held on May 16, 2021.

Sukhjot Kaur (BCA) got 1<sup>st</sup> position in Debate Competition organised by Mechstein Club held on June 2, 2021.

Sukhjot Kaur (BCA) got 1<sup>st</sup> position in Poetry on International Integration Day under the aegis of NSS, Chitkara University, Punjab held on June 16, 2021.

Sukhjot Kaur (BCA) got 1<sup>st</sup> position in Poetry on World Environment Day under the aegis of NSS, Chitkara University, Punjab held on June 5, 2021.



# STUDENTS ACHIEVEMENTS

Divyansh Chauhan (B.Tech (IT) – 2<sup>nd</sup> Semester) got a patent granted by Australian Patent Authority.

## Details

**Patent Title:** IOT BASED HOME AUTOMATION BY USING CLOUD  
**Effective Date:** June 09, 2021  
**Patent Authority:** Patent Office, Commonwealth of Australia



Patent Grant Certificate

| Application Details                                    |                                                                                                                                                                                                                                        |                                  |                                                 |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------|
| 2021102409<br>IOT BASED HOME AUTOMATION BY USING CLOUD |                                                                                                                                                                                                                                        |                                  |                                                 |
| BIBLIOGRAPHIC DATA                                     |                                                                                                                                                                                                                                        |                                  |                                                 |
| Application details                                    |                                                                                                                                                                                                                                        |                                  |                                                 |
| <b>Australian application number</b>                   | 2021102409                                                                                                                                                                                                                             | <b>Patent application type</b>   | Innovation                                      |
| <b>Application status</b>                              | FILED                                                                                                                                                                                                                                  | <b>Paid to date</b>              | 2023-05-07                                      |
| <b>Currently under opposition</b>                      | No                                                                                                                                                                                                                                     | <b>Proceeding type(s)</b>        | First IPC Mark                                  |
| <b>Invention title</b>                                 | IOT BASED HOME AUTOMATION BY USING CLOUD                                                                                                                                                                                               |                                  |                                                 |
| <b>Inventor(s)</b>                                     | Kumar Jain, Jay ; Shrivastava, Anurag ; Shripat Mane, Deepak ; Venkatesan, Mithra ; Sreenivasu, S. V. N. ; Ahlawat, Navin ; Kulkarni, Hemant Ramesh ; Pallathadka, Hanikumar ; Chauhan, Divyansh ; Jhapate, Monika ; Shrivastava, Amit |                                  |                                                 |
| <b>Agent name</b>                                      | Thomas, Blessen Skariah DR                                                                                                                                                                                                             | <b>Address for legal service</b> | Christchurch 8041 New Zealand show full address |
| <b>Filing date</b>                                     | 2021-05-07                                                                                                                                                                                                                             | <b>Australian OPI date</b>       | OPI published in journal                        |
| <b>Effective date of patent</b>                        | 2021-05-07                                                                                                                                                                                                                             | <b>Expiry date</b>               | 2029-05-07                                      |
| <b>Additional/Divisional application number</b>        | <b>Additional/Divisional relationship</b>                                                                                                                                                                                              |                                  |                                                 |

Patent Application

## *A Brain Teaser*

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

*Solution of Last Issue*

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

## *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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