



# *Nouvelle Liberation*

**Volume 7, Issue 1**

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



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

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# TWO-DAYS WORKSHOP ON INTERNET OF THINGS: VIRTUAL ENVIRONMENT

January 5-6, 2021

Computer Society of India (CSI) Student Chapter, under the aegis of the Department of Computer Applications, Chitkara University, Punjab in association with Institution's Innovative Council (IIC) has organized a 2-Days workshop on "Internet of Things: Virtual environment" on January 5-6, 2021. 22 Students from CA department participated in the workshop. Dr. Vidhyotma Gandhi (Assistant Professor, Department of Computer Applications) was the resource person. She gave the rudimentary knowledge of Internet of Things (IoT). Students enthusiastically participated in the hands-on session of virtual environment (Tinker cad) during the workshop. Students learnt about the interfacing of sensor with arduino board. Few project ideas were also discussed. Dr. Jaiteg Singh (Professor & Dean, Department of Computer Applications) interacted with the students and motivated them to implement projects using IoT and also applauded the efforts of resource person along with CSI core team members.



Students learnt IoT implementation and its applications in various real life scenarios.

**CHITKARA UNIVERSITY**



**INSTITUTION'S INNOVATION COUNCIL**  
Initiative for Innovation & Entrepreneurship

2- Days Workshop on

## Internet of Things: Virtual Environment

Resource Person:  
**Dr. VIDHYOTMA**

Venue: Online  
workshop Fee Rs. 100/-

**5<sup>th</sup> - 6<sup>th</sup> January, 2021**  
**3:00 pm to 4:15 pm**

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

Certificate for all participants

Student Coordinator:  
Amisha: 9034859008 | Rajveer: 9599696969

Key Coverage:-

**Day 1** Introduction to Internet of Things (IoT) and kit Employment  
**Day 2** Virtual Environment Installation and Implementation of IoT

payment link: <https://paym.chitkara.edu.in/workshop-on-virtual-environment/>



# LOHRI AND MAKAR SAKRANTI

January 13, 2021

Matrix Club under the aegis of Department of Computer Applications celebrated Lohri and Makar Sakranti festival. Students of Department of Computer Applications celebrated the festival by doing charity, donating clothes, books to the needy, food to poor people around their neighbourhood. Acting on these powerful feelings of responsibility is a great way to reinforce our own personal values and feel like are living in a way that is true to our own ethical beliefs.





# NATIONAL PATRIOTISM DAY



January 23, 2021

## QUIZ COMPETITION

Department of Computer Applications under the aegis of National Service Scheme (NSS), Chitkara University commemorated the birth anniversary of Netaji Subhash Chandra Bose as National Patriotism Day wherein Quiz Competition was organized. The quiz was based on "India's Freedom Struggle". A number of NSS volunteers of various departments participated in the competition and made the event a success.




In order to honour and remember Netaji's indomitable spirit and selfless service to the nation, the Government of India has decided to celebrate his birthday on the 23<sup>rd</sup> day of January every year as "PARAKRAM DIWAS" to inspire people of the country, especially the youth, to act with fortitude in the face of adversity as Netaji did, and to infuse in them a spirit of patriotic fervour.





**Online Quiz**  
on the Occasion of  
**National Day of Patriotism**  
(To Commemorate Neta Ji Subhash Chandra Bose)

Organized By  
Department of Computer Applications  
In Collaboration with  
**National Service Scheme (NSS)**  
Chitkara University



For More Details :  
Aditi : 70095 34123  
Shivam : 70820 76731

**«23<sup>rd</sup> January, 2021»**



"Registration is open"  
Participants can register on the link  
<https://forms.gle/2sF6qT9Nck6Lrd5c76>  
Participants will get e-certificate

## WINNER'S LIST

Position	Name	Class
1 <sup>st</sup>	Muskan Makani	BCA
	Rajat Dua	BCA
	Manpreet	BCA
2 <sup>nd</sup>	Pulkit Jain	BCA
	Anirudh Mahajan	BCA
	Pranjal Gupta	BCA
3 <sup>rd</sup>	Divpreet Kaur	BCA
	Harsimran Singh	BCA
		BCA



# NATIONAL VOTERS DAY

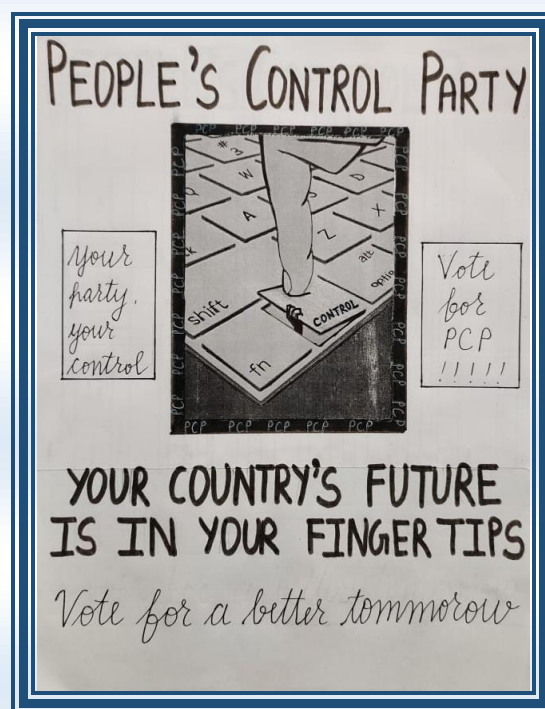
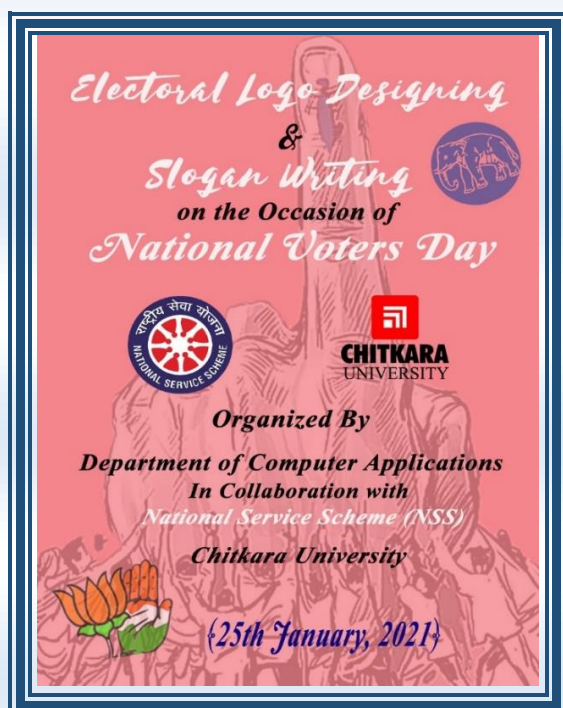
January 25, 2021

## ELECTORAL LOGO AND SLOGAN WRITING COMPETITION

Department of Computer Applications under the aegis of NSS, Chitkara University celebrated National Voters Day on January 25, 2021, wherein "Electoral Logo and Slogan Writing" competition was organized.



National Voters Day is observed annually to educate and encourage the nation's youth to vote during elections. The day is observed to spread awareness about the importance of voting in a democracy and it also educates people about their voting rights. Our NSS volunteers too, celebrated the day by understanding the importance of voting, made their own party logo as well as the slogan of their party.



### WINNER'S LIST

Position	Name	Class
1 <sup>st</sup>	Madhav Jain	B.Tech(IT)
2 <sup>nd</sup>	Lakshit Garg	BCA
	Kunika	BCA
3 <sup>rd</sup>	Shivansh	B.Tech(IT)





# WORLD RADIO DAY

February 13, 2021

**"IMPARTING COMPUTER EDUCATION AND INNOVATION TO COMMUNITY"**

*"There is immense power when a group of people with similar interests gets together to work toward the same goals."*



**WORLD  
RADIO DAY**

With this notion in mind, Matrix Club under the aegis of Department of Computer Applications in collaboration with Chitkara School of Mass Communication celebrated World Radio Day on February 13, 2021 wherein students and faculty members of the Department of Computer Applications delivered a talk on Chitkara Radio 107.8 FM regarding the basics of computers as well as innovation for the development of knowledge and skills of the community. The programme "The Computer World" is specially designed as a corporate social responsibility to create awareness in the usage of information technology and to be broadcasted every week on 107.8 FM. Students would be delivering talks on "Innovation in Computers and Technology" in this series.



# NATIONAL SCIENCE DAY

February 28, 2021

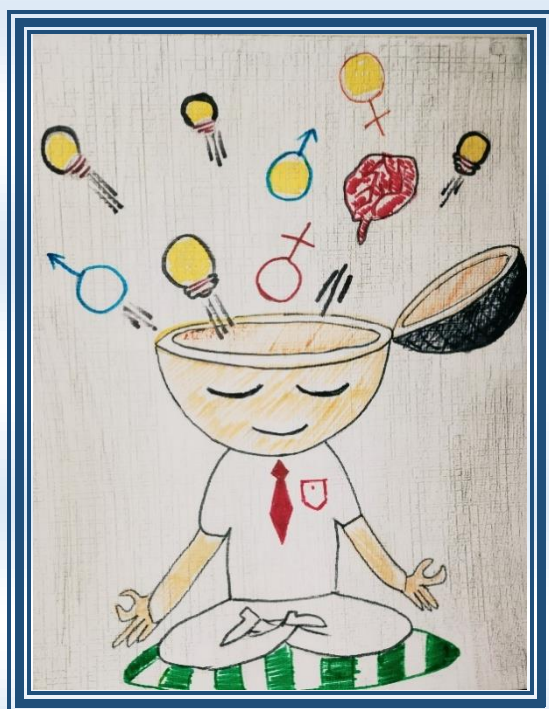
## DEPICTING SCIENCE AND INNOVATION THROUGH CARTOON MAKING

*"One machine can do the work of fifty ordinary men. No machine can do the work of one extraordinary man -Elbert Hubbard."*

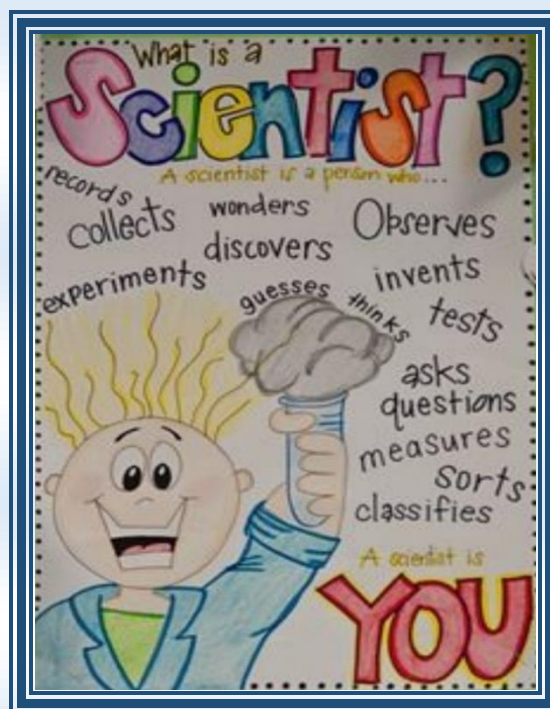


Department of Computer Applications in collaboration with NSS, Chitkara University celebrated National Science Day on February 28, 2021 wherein NSS volunteers of various departments celebrated the day by depicting the latest science and technology innovation using cartoons on paper.

The Raman Effect discovery of great Indian Physicist Sir C. V. Raman brought the first Nobel Prize in science for our country in 1930. The nation celebrates it as the National Science Day, an important day for Indian Scientific Community. It is a day to innervate young minds and to impart scientific spirit in them.



EXCUBERANZA





# EXCUBERANZA

March 5, 2021

## EXPERT TALK ON INNOVATION IN DIGITALWORLD SECURITY

*"There is immense power when a group of people with similar interests gets together to work toward the same goals."*

Matrix Club under the aegis of Department of Computer Applications in collaboration with Institute Innovation Council (IIC) celebrated their annual event, Excuberanza-2K21 on March 5, 2021 wherein an expert talk on Innovation in Digital World Security was organized. The talk was delivered by Mr. Paras Arora, an Indian 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 event focused on the training of students to gain knowledge on hacking and security. The expert shared views regarding the issue of privacy of data. He emphasized that whatsapp data, picture gallery, call logs and other folders in our mobile is not private anymore. Even Adhaar card or any other important certificates are all leaked or accessible at other places. The expert emphasized on the ideas to keep our important data safe and gave valuable insights in new innovative technologies.



# INTERNATIONAL WOMEN'S DAY

March 8, 2021

## LEARNING SELF DEFENSE TECHNIQUES

Department of Computer Applications in collaboration with NCC, Chitkara University, Punjab under the aegis of NSS, Chitkara University celebrated International Women's Day on March 8, 2021 wherein NCC Cadets Gurjot Singh, Aditi Joshi, Khushboo, Esha Yadav, Shurushti of Chitkara University demonstrated the techniques including special moves and punches of self defense. These NCC and NSS cadets are experts in Boxing, Karate and Taekwondo. A number of NSS and NCC volunteers learnt the techniques and made event a success. NCC and NSS volunteers gave speeches on women empowerment and ideas on how women's rights were being "reduced, restricted and reversed".



International Women's Day (IWD) is a global day celebrated annually to commemorate the cultural, political, and socioeconomic achievements of women. It is also a focal point in the women's rights movement, bringing attention to issues such as gender equality, reproductive rights, and violence against women.

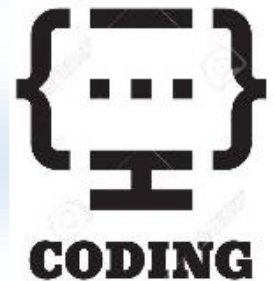




# TECH ENCLAVE

March 9, 2021

Computer Society of India (CSI) Student Chapter, under the aegis of Department of Computer Applications, Chitkara University, Punjab, in association with Institution's Innovative Council (IIC) organized Tech Enclave 2021 on March 9, 2021.



More than 140 students from different departments of Chitkara University participated in the event. Tech Enclave included various technical events like Innovative Prototypes and Business Solutions, Coding Predators and Tech Bolt Quiz. Under the Innovative Prototypes and Business Solutions, students put forth their innovative ideas in the form of hardware/software projects. Students also competed for Coding Predators where they solved a gaming problem through coding.

The valedictory session to mark the closure of the Tech Enclave-2021 was held during the second half of the day. Dr. I. S. Sandhu (Professor & Dean, Dept. of Examinations), Dr. Pankaj Kumar (Professor & Dean, PhD Program) and Dr. Jaiteg Singh (Professor & Dean, Department of Computer Applications) awarded the winners of various events.

Dr. I. S. Sandhu and Dr. Pankaj Kumar applauded the participants for showing enthusiasm in technical events. Dr. Jaiteg Singh also applauded the participants and motivated them to keep participating in future. He also promised to give ample opportunities to the young scholars that will be helpful to enhance their knowledge and skills.



## FACULTY ACHIEVEMENTS

- Dr. Jaiteg Singh has received a Research Excellence award on February 27, 2021.
- Dr. Jaiteg Singh is acting as a reviewer for various publishers and conferences of repute such as IEEE, Elsevier, and Springer.
- Dr. Preetinder Singh Brar completed his PhD degree (vide Notification No. CUPB/DEX/2021/019 dated 09.03.2021).
- Dr. Ruchi Mittal, Dr. Deepika Chaudhary, Mr. Jaswinder Singh, Ms. Vandana, Mr. Amanpreet Singh, and Mr. Jaspreet Bajaj have been nominated for various categories such as Extra mural funding, Research incentives, Patent filing and Innovation in teaching learning at Research Excellence awards, held on February 27, 2021 at Chitkara University, Punjab.
- Dr. Ruchi Mittal is reviewing for various journals such as Internet Research (Emerald), World Review of Science, Technology and Sustainable Development (Inderscience) and International Journal of Business and Globalisation (Inderscience), Springer Series.
- Dr. Deepika Chaudhary has been appointed as reviewer for Springer journal named SN Computer Science.
- Dr. Deepika Chaudhary has given consultancy on Search Engine Optimization to Klick Labs, Mohali
- Dr. Deepika Chaudhary, Ms. Nishu Balli and Dr. Jaiteg Singh have been granted the patent named, Wiper With Dryer (Design) on March 1, 2021 Via Application no. 331796-001
- Dr. Rajesh Kaushal has been awarded for bringing Extramural Funding at Research Excellence awards held on February 27, 2021.
- Dr. Rajesh Kaushal and Dr. Naveen Sharma have been granted the following Patents:
  - Book Disinfectant Trolley using UV Light (Design) on February 9, 2021 via application number 331764-001.
  - High Heel Shoe with Adjustable Height (Design) on January 9, 2021 via application number 331765-001.



## FACULTY ACHIEVEMENTS

- Dr. Rajesh Kaushal has been appointed as reviewer for Springer journal named Technology, Knowledge and Learning.
- Dr. Rajesh Kumar Kaushal chaired the session in the IEEE conference titled Emerging Smart Computing & Informatics (ESCI-2021) organized by AISSMS Institute of Information Technology, Pune, Maharashtra. The conference was held on 5th to 6th March 2021.
- Dr. Rajesh Kumar Kaushal chaired session in International Conference on Advance Computing and Innovative Technologies in Engineering held on 4th and 5th March 2021 organized by Galgotia College of Engineering, Greater Noida, Uttar Pradesh.
- Dr. Vidyotma Gandhi supervised the BCA students (Avinash, Bhivesh, Amit, Abhishek, Lakshit, and Hardik) on their major Project titled "Remote Person Monitoring System (RPMS)". This project bagged fourth best project in event Hardware Hackathon 2021 at Amity University, Noida U.P. held on March 11-14, 2021.
- Ms. Vikas Rattan supervised the BCA 6<sup>th</sup> semester students (Pranad Munjal and Rajat Dua) on their major Project titled "Face Mask Detection". This project bagged 1<sup>st</sup> in the event "Innovative Prototypes and Business Solutions" organised by CSI Enclave held on March 9, 2021 at Chitkara University, Punjab.
- Ms. Vandana supervised the BCA 6<sup>th</sup> semester student (Tushar Doda) on his major Project named "Automatic Moisture Detection and Watering". This project was judged third best project in event Innovative Prototypes and Business Solutions at CSI Enclave held on March 9, 2021 at Chitkara University, Punjab.

## RESEARCH & PUBLICATIONS

- Singh J., Mittal A., Mittal R., Singh K., Malik V. i-Fence: A Spatio-Temporal Context-Aware Geofencing Framework for Triggering Impulse Decisions. In: Bellatreche L., Goyal V., Fujita H., Mondal A., Reddy P.K. (eds) Big Data Analytics. BDA 2020. Lecture Notes in Computer Science, vol. 12581. Springer, Cham.
- Gera T, Singh J, Thakur D, Faruki P. A Semi-automated Approach for Identification of Trends in Android Ransomware Literature. In Machine Learning for Networking: Third International Conference, MLN 2020, Paris, France, November 24–26, 2020, Revised Selected Papers 3 2021 (pp. 265–283). Springer International Publishing.
- Gill R., Singh J. Consumer Emotional State Evaluation Using EEG Based Emotion Recognition Using Deep Learning Approach. In Advanced Computing: 10th International Conference, IACC 2020, Panaji, Goa, India, December 5–6, 2020, Revised Selected Papers, Part I 2021 (p. 113). Springer Nature.
- Mittal R, Singh J, Mittal A. Predicting Mentoring Effectiveness in a Computer Science Program: A Machine Learning Approach. In 2020 IEEE International Conference for Innovation in Technology (INOCON) 2020 Nov 6 (pp. 1–5). IEEE.
- Mittal R, Malik V, Singh V, Singh J, Kaur A. Integrating Genetic Algorithm with Random Forest for Improving the Classification Performance of Web Log Data. In 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC) 2020 Nov 6 (pp. 177–181). IEEE.
- Sidhu HJ, Khanna MS. Cloud's Transformative Involvement in Managing BIG-DATA ANALYTICS For Securing Data in Transit, Storage And Use: A Study. In 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC) 2020 Nov 6 (pp. 297–302). IEEE.
- Khanna MS, Sidhu HJ, Bansal R. Industry 4.0: A Study of India's Readiness as Preferred Investment Destination in Automotive and Auto Component Industry. In 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC) 2020 Nov 6 (pp. 557–560). IEEE.
- Singh A, Kaur A, Gupta D. Brief Study to Explore Trust and Security Challenges in Cloud Computing. In IOP Conference Series: Materials Science and Engineering 2021 (Vol. 1022, No. 1, p. 012039). IOP Publishing.

## RESEARCH & PUBLICATIONS

- Gupta N, Gupta K, Singh A, Kaur A, Gupta D. Cloud computing: a walk through in models, challenges, and energy solutions. In IOP Conference Series: Materials Science and Engineering 2021 (Vol. 1022, No. 1, p. 012070). IOP Publishing.
- A. Kaur and A. Singh. Remarkable Contribution of Whatsapp In Community. Advances in Mathematics: Scientific Journal. 2021 (Vol. 10, No. 3, p.1413-1418).
- Dahiya N, Gupta S, Garg M. Microsatellite Instability in Gastrointestinal Cancer Using Deep Learning: A Review. In IOP Conference Series: Materials Science and Engineering 2021 (Vol. 1022, No. 1, p. 012025). IOP Publishing.
- Kaur P, Chahal J, Sharma T. A Data Mining Approach for Crop Yield Prediction in Agriculture Sector. Advances in Mathematics: Scientific Journal. 2021 (Vol. 10, No. 3, p. 1425)
- Correa FS, Chand PK, Mittal A, Mittal R. Proximal and Distal Influences on Fresh Management Graduate's Employability: A Review of Literature and Orientations. Webology. 2020 (Vol. 17, No. 2).



## RESEARCH & PUBLICATIONS

### Conference Papers Presented

- Dr. Ruchi Mittal, Dr. Varun Malik, Dr. Jaiteg Singh and Mr. Vikas Rattan, "A Hybrid Approach to improve classification performance using WMOT," 3rd IEEE International Conference on Emerging Smart Computing & Informatics (ESCI 2021), AISSMS Institute of Information Technology, Pune, March 5-7, 2021.
- Mr. Vikas Rattan, Dr. Ruchi Mittal, Dr. Jaiteg Singh and Dr. Varun Malik, "Analyzing the Application of SMOTE on Machine Learning Classifiers," 3rd IEEE International Conference on Emerging Smart Computing & Informatics (ESCI 2021), AISSMS Institute of Information Technology, Pune, March 5-7, 2021.
- Dr. Deepika Chaudhary, Dr. Jaiteg Singh and Ms. Puneet Sandhu, "Knowing the Unknown: Unshielding The Mysteries Of Semantic Web In Health Care Domain," International Semantic Intelligence Conference (ISIC-2021)), MERI Education and Research Institute, New Delhi, February 25-27, 2021.
- Ms. Puneet Sandhu, Dr. Deepika Chaudhary and Dr. Jaiteg Singh, "NORA and RODS the two Data Mining Technologies for National Security - Review, Empowering Cities through Data Analytics," International Conference on Advance Computing and Innovative Technologies in Engineering (IEEE), Galgotia College of Engineering and Technology, Greater Noida, March 4-5, 2021.
- Mr. Amanpreet Singh, Dr. Amandeep Kaur and Dr. Deepali Gupta, "Reviewing Trust Issues in Cloud Computing," International Virtual Conference on Intelligent Robotics, Mechatronics and Automation Systems, Vellore Institute of Technology, Chennai, March 26-27, 2021.
- Ms. Vandana and Dr. Navdeep Kaur, "A Study of Biometric Identification and Verification System," International Conference on Advance Computing and Innovative Technologies in Engineering (IEEE), Galgotia College of Engineering and Technology, Greater Noida, March 4-5, 2021.

## STUDENTS ACHIEVEMENTS

- Raegan Albuquerque (BCA 2<sup>nd</sup> Semester) got 3<sup>rd</sup> position in Dr. Ramesh Prabhoo Memorial 82<sup>nd</sup> Maharashtra State Table Tennis Championship held on January 19-28, 2021.
- Raegan Albuquerque (BCA 2<sup>nd</sup> Semester) got 3<sup>rd</sup> position in 82<sup>nd</sup> Junior and youth National Table Tennis Championship 2020 held on March 7-16, 2021.
- Arashdeep Kaur (BCA-Networking 4<sup>th</sup> Semester) got 1<sup>st</sup> position in Open Mic Poetry Competition (English Category) under the aegis of NSS, Chitkara University, Punjab on March 20, 2021.
- Gyan Singh of (BCA 4<sup>th</sup> semester) has been awarded the "Indian Achievers Award 2020" by Indian Achievers Forum for excellence in the field of Information technology. He has developed a UV Robot which is UV-C empowered and intends to sterilize large indoor wards in a short span of time.
- Pranad Munjal and Rajat Dua (BCA 6<sup>th</sup> semester) bagged 1<sup>st</sup> position in the event "Innovative Prototypes and Business Solutions" organised by CSI Enclave held on March 9, 2021 at Chitkara University, Punjab for their project titled "FACE MASK DETECTION".
- Tushar Doda (BCA 6<sup>th</sup> semester) bagged 3<sup>rd</sup> position in the event "Innovative Prototypes and Business Solutions" organised by CSI Enclave held on March 9, 2021 at Chitkara University, Punjab for their project titled "AUTOMATIC MOISTURE DETECTION AND WATERING".
- Three teams from Department of Computer Applications, Chitkara University, Punjab, have participated in a hardware Hackathon 2021 (AMIHACKS) at Amity University, Noida, U.P. Six Students of BCA (Avinash Verma, Bhivesh Bhandari, Amit Kumar, Abhishek, Lakshit Garg and Hardik Sachdeva) bagged 4<sup>th</sup> position in the competition for their project titled "REMOTE PERSON MONITORING SYSTEM (RPMS)".



## PLACEMENTS RECORD

ROLL NO.	NAME	COMPANY
1910981501	Admya Sharma	Bebo Technologies Pvt. Ltd. Chandigarh
1910981502	Akanksha Bansal	Bebo Technologies Pvt. Ltd. Chandigarh
1910981503	Akshay Sharma	Appwork IT Solutions, Mohali, Punjab
1910981504	Akshit Juneja	CodeBrew Labs, Chandigarh
1910981505	Amisha Sharma	Grazitti Interactive, Panchkula, Haryana
1910981512	Harshika	CodeBrew Labs, Chandigarh
1910981513	Harsimran Kaur	Grazitti Interactive, Panchkula, Haryana
1910981518	Karan Miglani	CodeBrew Labs, Chandigarh
1910981532	Prabhjot Kaur	Perceptiviti Data Solutions Pvt. Ltd, Gurgaon, Haryana
1910981536	Rahul Kumar	Infosys, India
1910981537	Rahul Mehta	Grazitti Interactive, Panchkula, Haryana
1910981539	Rajneesh Kapoor	Tata Consultancy Services (TCS), India
1910981541	Ramneet	CodeBrew Labs, Chandigarh
1910981546	Samrat Bhadra	Bebo Technologies Pvt. Ltd. Chandigarh
1910981552	Shubham vij	Bebo Technologies Pvt. Ltd. Chandigarh
1910981553	Srishti	Grazitti Interactive, Panchkula, Haryana
1910981555	Unnati Sharma	H&R Block (India) Pvt. Ltd.



## *A Brain Teaser*

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

*Solution of Last Issue*

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

## *Nouvelle Liberation*

### *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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