

**CHITKARA**  
UNIVERSITY



# *Nouvelle Liberation*

**Volume 7, Issue 3**

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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**Editorial Team:**

Dr. Ruchi Mittal

Mr. Vikas Rattan

Ms. Jasmeen Kaur Chahal

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**Website:**

<https://www.chitkara.edu.in>

**Email:**

[nouvelle@chitkara.edu.in](mailto:nouvelle@chitkara.edu.in)

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[www.ca.chitkara.edu.in](http://www.ca.chitkara.edu.in)

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***INSIDE THE ISSUE***

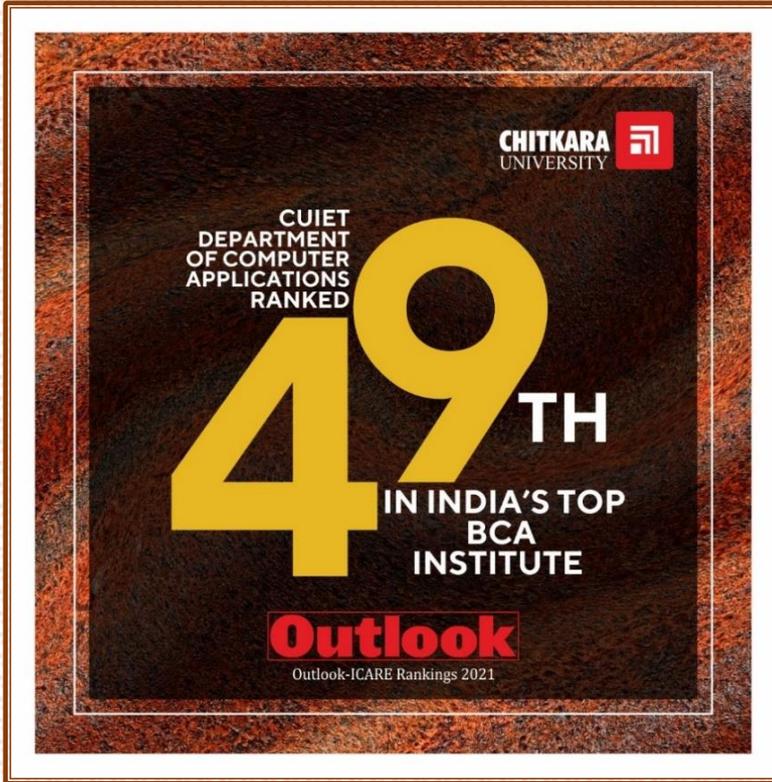
<u>CONTENTS</u>	<u>PAGE No.</u>
• Rankings.....	1-2
• Independence Day.....	3
• National Sports Day.....	4
• Teachers Day.....	5
• Orientation Programme @ CA.....	6
• Master Class Series-I (Induction Programme).....	7
• Matrix Club Introduction and Activity (Induction Programme).....	8
• Matrix Class Series –II (Induction Programme).....	9
• Technovation.....	10
• Research & Publications .....	11
• Achievements .....	12
• Results.....	13
• Placements Record.....	14

# RANKING



Chitkara University has been accredited with coveted A+ grade by National Assessment and Accreditation Council (NAAC) which now firmly positions us among the top 5% Higher Education Institutions of the country. This bears testimony to our unique blend of distinguished faculty, brilliant and intellectual students, world class research labs coupled with proactive industry collaborations. Chitkara Education brings with it a reputation that has been earned through years of serving career needs of the student community.

# RANKING



Chitkara University BCA College  
Ranking in Outlook ICARE Ranking,  
2021

Chitkara University BCA College  
Ranking in India Today Survey,  
2021

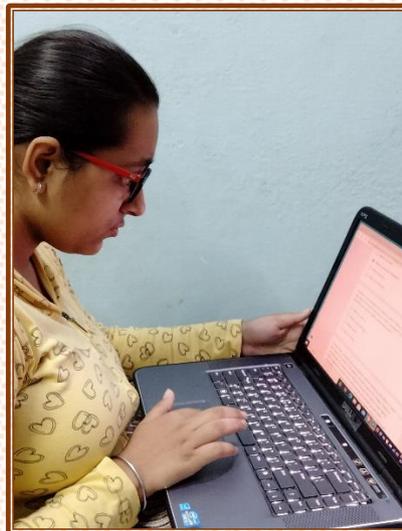


# INDEPENDENCE DAY

## AUGUST 15, 2021

Matrix Club under the aegis of the Department of Computer Applications, Chitkara University celebrated Independence Day on August 15, 2021, wherein a Quiz Competition was organized on the theme of “Let the Freedom Live”. The day to remember the dedication of all those people who gave their lives, mind, body, and soul to free India.

The event was marked to remind everyone that India’s independence struggle was long, difficult and cost many brave lives. 70 students of the department participated in the competition and made the event a success by remembering the history and important events that happened in the past.



### WINNER'S LIST



<u>Position</u>	<u>Name</u>	<u>Course</u>
1st	Pulkit Jain	BCA
	Parteek Dang	BCA
2nd	Harsimran Singh	BCA
	Divpreet Kaur	BCA

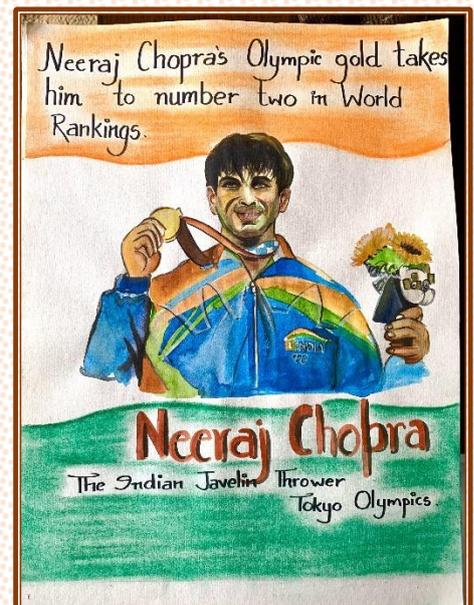
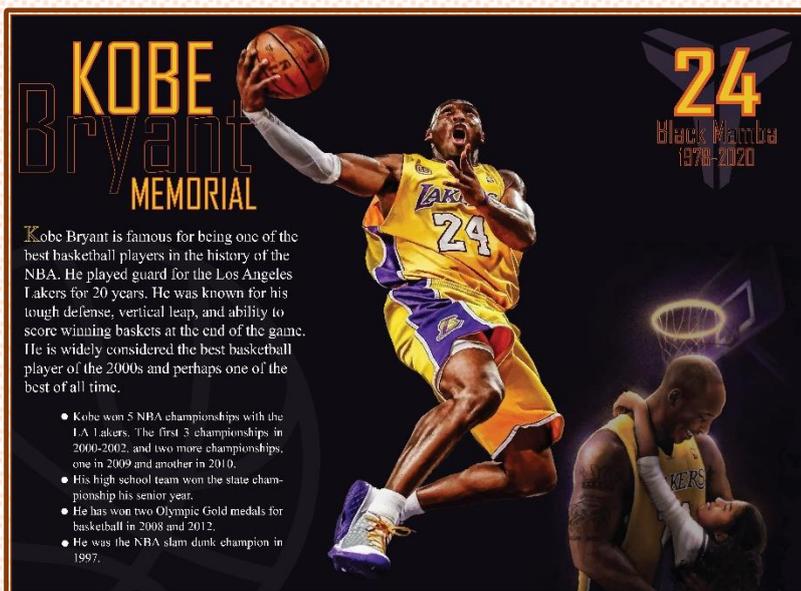
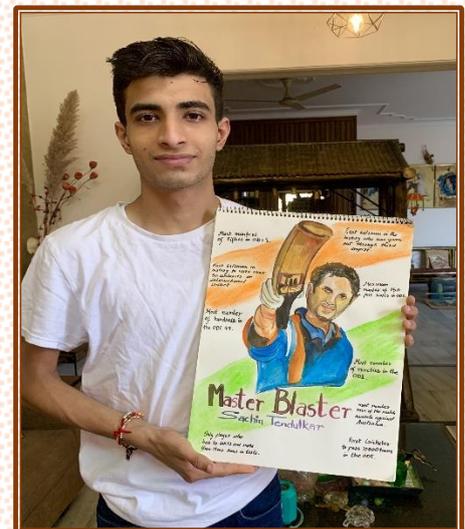
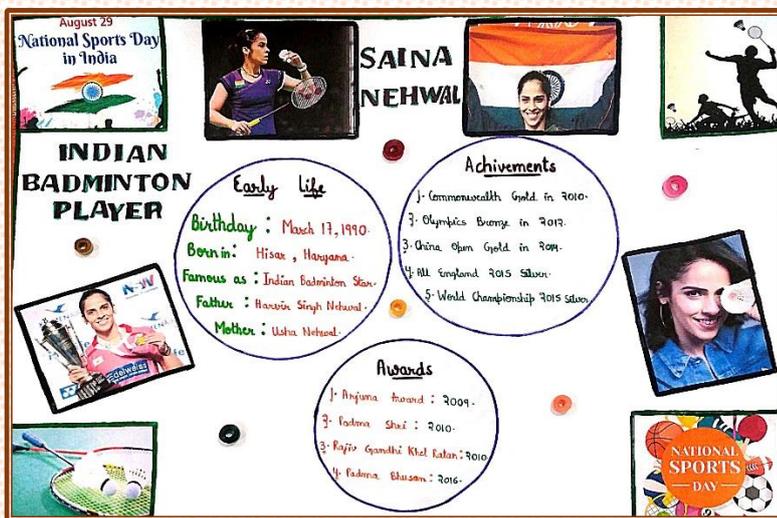


# NATIONAL SPORTS DAY

## AUGUST 29, 2021

Matrix Club under the aegis of the Department of Computer Applications organized National Sports Day on August 29, 2021, wherein students of participated in a poster presentation of their favourite sportsperson.

The nation remembered the legendary Olympian and arguably the greatest Hockey player of all times, Major Dhyana Chand, on his 116th birth anniversary. As a tribute to Dhyana Chand, his birthday is commemorated as National Sports Day. This year, the occasion has coincided with India registering it's best-ever finish in the Olympics, winning seven medals in recently concluded games in Tokyo including a field hockey bronze.



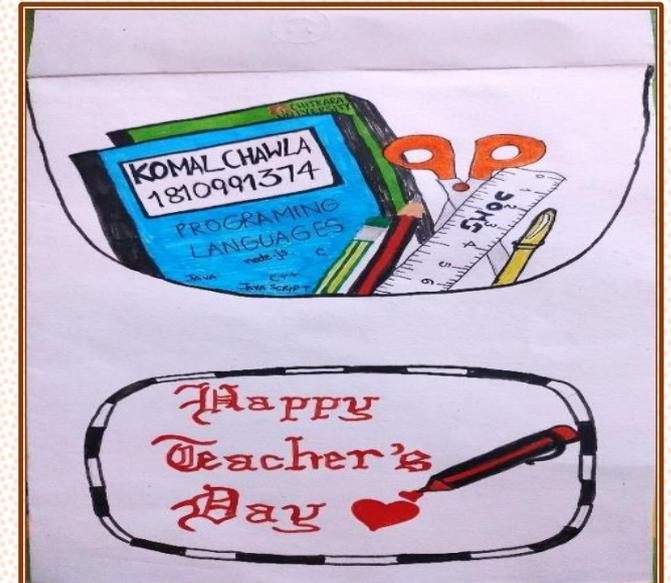
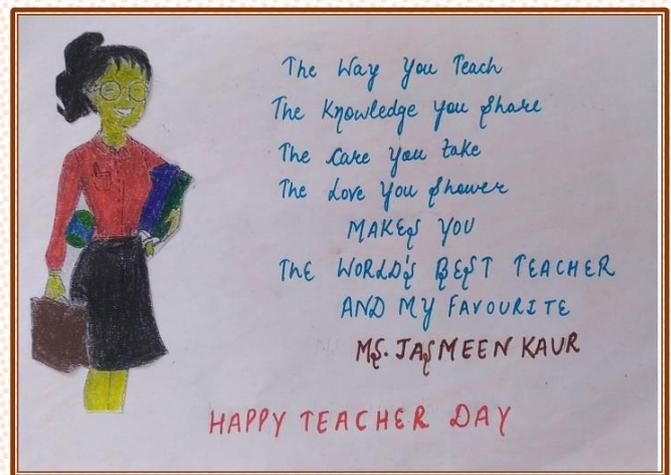
# TEACHERS DAY

## SEPTEMBER 05, 2021

*"The influence of teachers extends beyond the classroom, well into the future"*

Students from the Department of Computer Applications celebrated Teacher's Day on September 5, 2021, wherein students expressed their gratitude towards their favourite teachers with messages on a sheet of paper which mentioned their teacher's name.

Students showcased creative messages on beautiful cards and some students shared their gratitude towards their teachers through video messages.



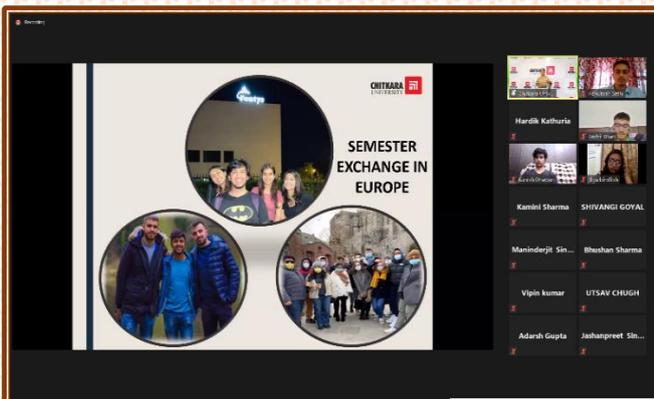
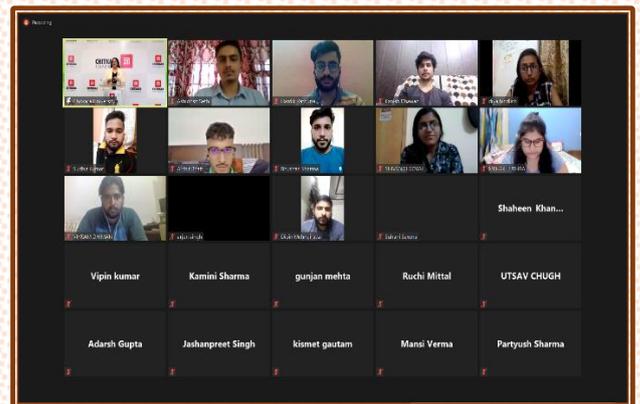
# ORIENTATION PROGRAMME @ CA

## SEPTEMBER 09, 2021

Department of Computer Applications warmly welcomed the new BCA and MCA batch of 2021 amidst the COVID -19 situation which is still prevailing. The students were given a Chitkara University campus tour through an online digital media platform in Orientation Programme this year.

The Orientation Programme started with a motivational speech of our Hon'ble Chancellor Dr. Ashok Chitkara and Hon'ble Pro-Chancellor Dr. Madhu Chitkara, Chitkara University.

Dr. Jaiteg Singh, Professor and Dean, Department of Computer Applications introduced the curricular aspects to the new batch. Senior corporate executives representing different Industry partners such as WIPRO, IBM and INFOSYS also came online and motivated the students and emphasising the importance of discipline, dedication and sincerity which they should follow throughout their degree program.

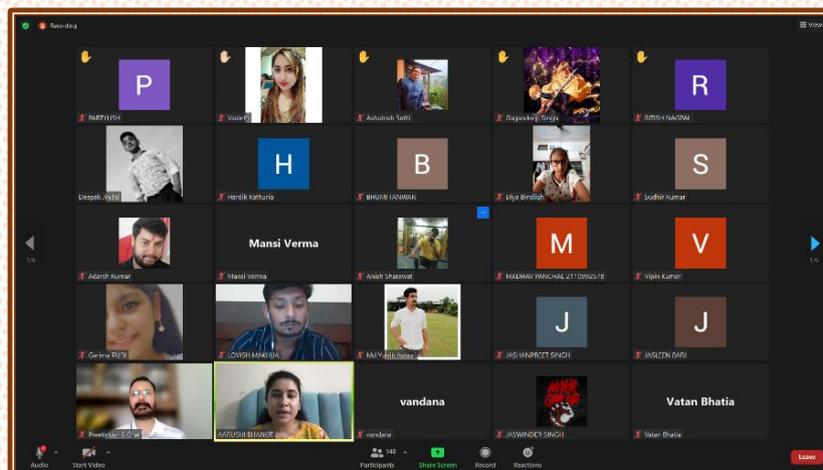


# MASTER CLASS SERIES-I (INDUCTION PROGRAMME) SEPTEMBER 11, 2021

As part of the Induction Programme for 2021, a Master Class Series was organized by the Department of Computer Applications, Chitkara University wherein students of the BCA and MCA 2021 batch interacted with the Master Class resource person.

Ms Aarushi Bhanot, HR Manager, Zupe Technology was the speaker of the day. She interacted with fresher students of the Department of Computer Applications to guide and train them for the interview rounds. The entire session gave a rare display of motivation and energy. During the session, she was so interactive that she listened to all the queries and doubts of the students.

The session was knowledgeable and interesting. Students got the proper idea of their strong and weak points.



# MATRIX CLUB INTRODUCTION AND ACTIVITY (INDUCTION PROGRAMME) SEPTEMBER 17, 2021

As part of the Induction Programme for BCA MCA Batch 2021, Matrix club under the aegis of Department of Computer Applications, Chitkara University welcomed the students of the BCA MCA 2021 batch.

Matrix Club running in the Department of Computer Applications is responsible to ensure that apart from academic excellence in the department, extracurricular activities are also equally important and students should participate wholeheartedly and develop their overall personalities. Beautiful glimpses of previous successful events, active members and how the club functions in the department were introduced during the session. The small fun activity was held online with new batch students as an introductory session.

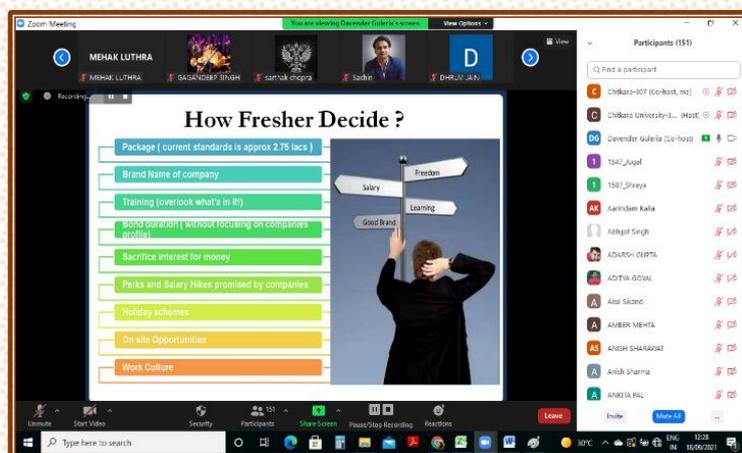
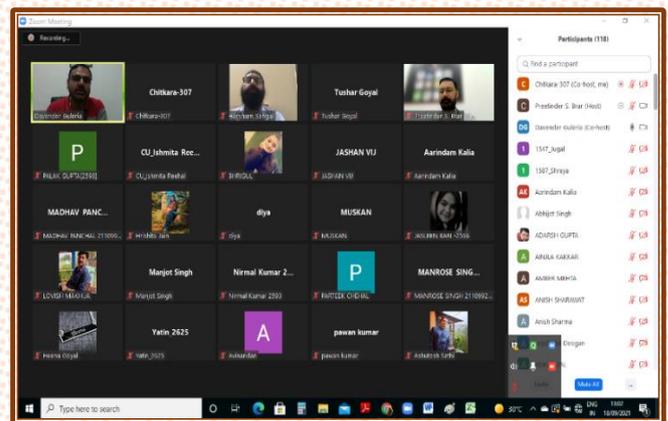
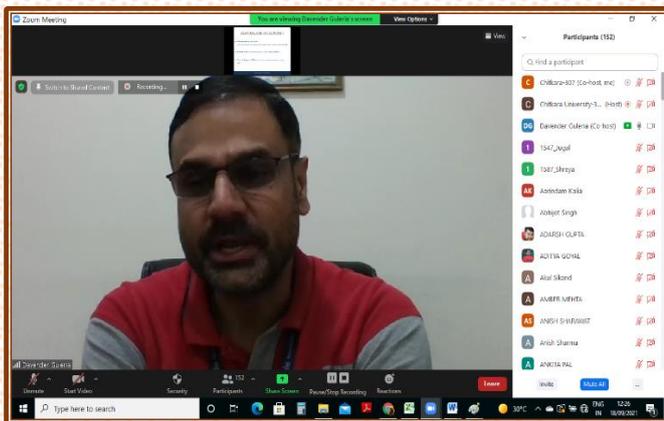


# MASTER CLASS SERIES-II (INDUCTION PROGRAMME) SEPTEMBER 18, 2021

As part of the Induction Programme for BCA and MCA (Batch 2021), Master Class Series was organized by the Department of Computer Applications, Chitkara University wherein students of the 2021 batch interacted with executives from the industry.

During an Interaction on September 18, 2021, Mr Davender Singh Guleria, Head, Bebo Educational Foundation gave insights to first-year students regarding emerging IT.

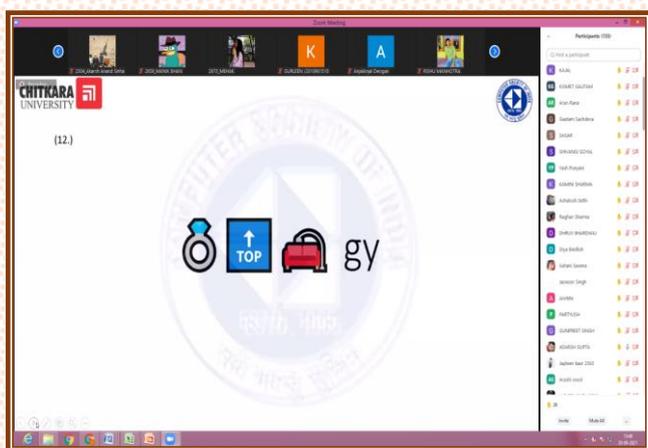
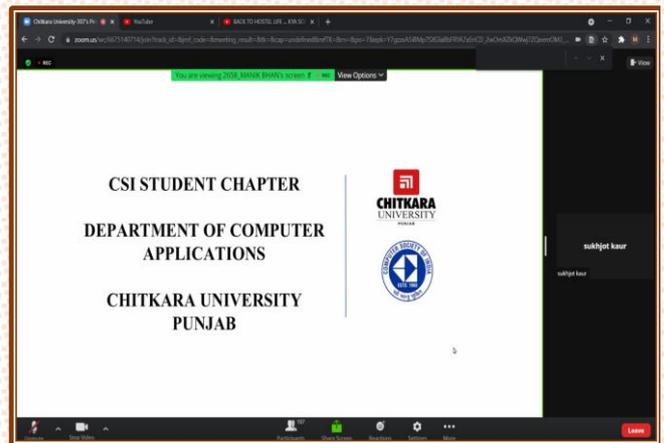
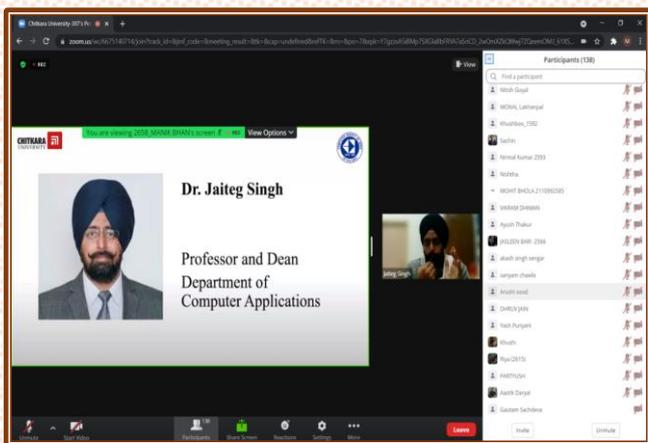
The session was motivating and extremely informative. The speaker had an overall experience of 23 years in the IT industry and is currently heading Bebo Educational Foundation. The students got to know about various IT fields and career enhancement tips through a simple gap analysis. The session wrapped up with an overwhelming response from all the students.



# TECHNOVATION

## SEPTEMBER 20, 2021

CSI Student Chapter under the aegis of Department of Computer applications organized an online interactive session with the students of BCA & MCA. The students were also introduced to the CSI Society and CSI Student Chapter in the Chitkara University, Punjab. The session involved students of batch 2021. The students were also updated with the latest technologies and innovations. A glimpse of various events organized by the student branch was also shown to the students. Dr. Jaiteg Singh, Professor and Dean, Department of Computer Applications, motivated the students to participate in the upcoming workshops, hackathons etc. to gain awareness about the latest IT trends and technologies. CSI student counsellor, Mr. Jaswinder Singh interacted with the students and told them about various opportunities for the students to be a part of CSI society. At the end of the session, a quiz was conducted where students identified various innovations through emojis and visuals.



## RESEARCH & PUBLICATIONS

Singh, J., Gera, T., Ali, F., Thakur, D., Singh, K., & Kwak, K. S. (2021). Understanding research trends in android malware research using information modelling techniques. *Computers, Materials & Continua*, vol. 66, no.3, pp. 2655–2670.

Singh, J., & Gill, R. (2022). Multimodal Emotion Recognition System Using Machine Learning and Psychological Signals: A Review. *Soft Computing: Theories and Applications*, 657-666.

Thakur, D., Singh, J., Dhiman, G., Shabaz, M., & Gera, T. (2021). Identifying Major Research Areas and Minor Research Themes of Android Malware Analysis and Detection Field Using LSA. *Complexity*, 2021.

Mittal, R., Ahmed, W., Mittal, A., & Aggarwal, I. (2021). Twitter users exhibited coping behaviours during the COVID-19 lockdown: an analysis of tweets using mixed methods. *Information Discovery and Delivery*.

Bali, N., & Singla, A. (2021). Deep Learning Based Wheat Crop Yield Prediction Model in Punjab Region of North India. *Applied Artificial Intelligence*, 1-25.

Rattan, V., Malik, V., Mittal, R., Singh, J., & Chand, P. K. (2021). Feature Selection and Performance Comparison of Various Machine Learning Classifiers for Analyzing Students' Performance Using Rapid Miner. In *Applications of Artificial Intelligence and Machine Learning* (pp. 13-22). Springer, Singapore.

Singh A, Kaur A, Gupta D. Reviewing Trust Issues in Cloud Computing. In *Journal of Physics: Conference Series* 2021 Jul 1 (Vol. 1969, No. 1, p. 012043). IOP Publishing.

Kaur P, Rani G, Sharma T, Sharma A. A Comparative Study to analyze crime threats using data mining and machine learning approach. In *2021 International Conference on System, Computation, Automation and Networking (ICSCAN) 2021 Jul 30* (pp. 1-4). IEEE.

## CONFERENCE PAPER PRESENTATIONS

Ruchi Mittal, Amit Mittal, Jaiteg Singh, Vikas Rattan, Varun Malik presented a paper titled "Principal component analysis based teacher selection driving store choice a data mining approach", IEEE International Conference on Computing, Communication and Green Engineering, JSPM's Rajarshi Shahu College of Engineering, Tathawade, Pune, September 25, 2021.

Ruchi Mittal, Amit Mittal, Arun Aggarwal presented a paper titled "Modeling the Prediction of Continued Usage of COVID-19 m health App in India", IEEE International Conference on Computing, Communication and Green Engineering, JSPM's Rajarshi Shahu College of Engineering, Tathawade, Pune, September 25, 2021.

Vikas Rattan, Shikha Sharma, Ruchi Mittal, Varun Malik presented a paper titled "Applying SMOTE with Decision Tree Classifier for Campus Placement Prediction", IEEE International Conference on Computing, Communication and Green Engineering, JSPM's Rajarshi Shahu College of Engineering, Tathawade, Pune, September 25, 2021.

Khare A., Bajaj J. S., Arvind. Cluster Ad Hoc Network Topology Control: Protocol and Algorithm, International Conference on Advances in Multi-Disciplinary Sciences and Engineering Research (ICAMSER-2021) at Chitkara University, Himachal Pradesh, on July 2-3, 2021.

Gandhi, V., Singh J., "Intensified Biological Signature Recognition in the Wild: A Case Study", 12th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2021), IIT-Kharagpur, West Bengal, India.

## ACHIEVEMENTS

Dr. Jaiteg Singh acted as a reviewer for Journal of Economic Psychology, Elsevier; Decision Analysis, INFORMS Institute for Operations Research and the Management Sciences, US; Archives of Computational Methods in Engineering, Springer.

Dr. Ruchi Mittal acted as a reviewer for 2021 IEEE 6th International Conference on Computing, Communication and Automation (ICCCA).

Dr. Ruchi Mittal, Dr. Varun Malik, Mr. Vikas Rattan, Dr. Jaiteg Singh, Dr. S.N.Panda, Dr. Amit Mittal, and Dr. Gurjinder Singh filed a patent titled "Chair with Adjustable and Foldable Footrest" on July 22, 2021 vide application no. 346570-001.

Dr. Deepika Chaudhary has undergone Innovation Ambassador training (Foundation Level) conducted by MoE's Innovation Cell & AICTE during the period from 30th June - 30th July 2021 in online mode.

Dr. Deepika Chaudhary has been invited as a program committee member for book publication on Tools, Languages, and Methodologies for representing Semantic Web of Things.

Dr. Maninder Jit Singh Khanna, Dr. Harmaninder Jit Singh Sidhu, Dr. Jaiteg Singh, Dr. Preetinder Singh Brar filed a patent titled "Mobile Holder" on 26 Aug 2021 vide file no. 348396-001.

Ms. Akshita Jain, Dr. Jaiteg Singh, Mr. Vikas Rattan, Dr. Ruchi Mittal, Dr. Varun Malik, Dr. Preetinder Singh Brar filed a patent titled " Hand Relaxation device while writing" on July 26, 2021 vide application no. 346776-001.

Dr. Varun Malik, Dr. Ruchi Mittal, Mr. Vikas Rattan, Dr. Sachin Ahuja, Dr. Jaiteg Singh, Dr. Amit Mittal, Dr. Anamdeep Kaur and Dr. Geetajali filed a patent titled "Automatic Shake Machine" on July 12, 2021 via application no. 346170-001.

Ms. Anshika Joshi, Dr. Jaiteg Singh, Dr. Deepika Chaudhary, Ms. Neelam Dahiya, Mr. Amanpreet Singh, Mr. Varun Malik, Ms. Jasmeen Kaur filed a patent "Adjustable Car Cum Bike Stand With Remote Control" via application no. 350090-001.

Ms. Anshika Joshi, Dr. Jaiteg Singh, Dr. Deepika Chaudhary, Dr. Maninderjit Singh Khanna, Ms. Rajwinder Kaur, Ms. Vandana, Mr. Jaswinder Singh filed a patent "Frog Shaped Drone For Agriculture Monitoring" via application no. 350091-001.

Mr. Ashish Raheja, Dr. Jaiteg Singh, Dr. Deepika Chaudhary, Dr. Ruchi Mittal, Mr. Vikas Rattan, Dr. Preetinder Singh Brar, Mr. Aswani Singh, Mr. Jeevan Singh Dosad filed a patent "Foldable Ten In One Tool" via application no. 350089-001.

# RESULTS

## MCA 2019-21



1st  
CGPA : 9.88  
Prabhjot Kaur  
1910981532



2nd  
CGPA : 9.83  
Paarth Manhas  
1910981532



3rd  
CGPA : 9.77  
Sanjoli Agarwal  
1910981547

## BCA 2018-21



1st  
CGPA : 9.87  
ANKIT GOYAL  
1810992519



2nd  
CGPA : 9.79  
JUGAL MISHRA  
1810992733



3rd  
CGPA : 9.71  
SARTHAK PUNJABI  
1810992807

# PLACEMENTS RECORD



**Shubham**  
**(2010981542)**  
Cognizant  
CTC: 6.75 LPA



**Vedant Pruthi**  
**(2010981535)**  
Redbrics ITeS India Pvt. Ltd.  
CTC: 6 LPA



**Tanpreet Pruthi**  
**(2010981530)**  
Redbrics ITeS India Pvt. Ltd.  
CTC: 6 LPA



**Chirag Sharma**  
**(2010981539)**  
Emicon Advisory Services LLP  
CTC: 5 LPA



**Pragati Anand**  
**(2010981546)**  
Caelius Consulting IT Services  
Pvt. Ltd.  
CTC: 4.27 LPA



**Vinay Sharma**  
**(2010981550)**  
IBM  
CTC: 4.25 LPA



**Rahul Baghla**  
**(2010981517)**  
SchoolPad Tehnologies Pvt. Ltd.  
CTC: 2.4 LPA



## 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

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

**CHITKARA UNIVERSITY, PUNJAB**

Chandigarh-Patiala National Highway (NH-64), Punjab-140 401

Phone No: +91 1762 507084/86

Website: [www.chitkara.edu.in](http://www.chitkara.edu.in)