

**Newsletter**

December, 2018

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

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## Orientation Day 2018



23rd Aug 2018 was marked as an orientation day for the BCA/MCA(2018-2021) batch. The program aimed at formally welcoming the budding computer professionals to the Chitkara family and assisting them in starting their journey in the exciting domain of computing and information technology.



The event was initiated with a warm welcome followed by addresses on university rules and regulations, campus infrastructure & maintenance, international opportunities and ICT policy of the university delivered by Chitkara administrative fraternity namely-Col. C. Jhamb, Mr. Rajesh Chandran and Mr. Gulshan Matta respectively.



In her message, the Pro Vice Chancellor had these words of wisdom to share with the students: "While necessity is the mother of invention, curiosity is the mother of exploration. Through CURIN (Chitkara University Research and Innovation Network) the university tries to build an unparalleled innovation and research culture. CURIN has the potential to make dreams come true for our students, faculty and all other stakeholders."

In an informative and motivational speech, Dr. Jaiteg Singh, the very worthy Dean of the Department of Computer Applications, welcomed the students and briefed them about the curriculum.

The event concluded with the blessings to the students by Hon'ble Dr. Madhu Chitkara, Vice-Chancellor, Chitkara University. In her brilliant and inspiring address, she emphasized that each student should follow the University Charter and inculcate traits such as patience, commitment, empathy and right attitude as a key to their future success. The respected Vice Chancellor also wished the students the best of everything for their upcoming academic life at campus and thereafter too.



## Run for Freedom: NSS Activity

Filled with patriotic spirit, the NSS Department at Chitkara University, organised "RUN FOR FREEDOM" event, to commemorate India's 72nd Independence Day, on 14th Aug 2018, at the campus.



The ambience was electrifying and the crowd was all pepped up as more than 250 NSS volunteers from various departments came forward to participate in the run in which BCA/MCA students also took part. A student of BCA 2, Anshuman, came first in boys category.

## Swachh Bharat Abhiyaan Celebrated @ CA

The father of our nation, Mahatma Gandhi, once said, "Sanitation is more important than independence", Swachh Bharat Abhiyaan is a campaign that aims at cleaning up roads, infrastructure, rural areas and every part of the country.



In deference to the ideals of Mahatma Gandhi, students from Department of Computer Applications (BCA/MCA), under the aegis of NSS carried a cleanliness drive in Govt. Model Senior Secondary School in Jhansla on 8th Aug 2018. They actively participated in this drive and put in their best efforts to clean the school premises, paint the boards and educate students about the importance of sanitation. Noteworthy, NSS has always aimed at providing

services to the society without bias and to ensure that everyone who is needy gets the requisite help to enhance their standard of living and lead a life of dignity.



## TechnoVanza 2018

Computer Society of India (CSI) Student Chapter, under the aegis of Department of Computer Applications, Chitkara University, Punjab, organized a technical event “TechnoVanza” on September 20, 2018.

More than 50 teams from various departments registered for the event. The two main parts of the event were workshop on Google Assistant and Competition based on Google Assistant Libraries. The resource person for the workshop, Dr. Amandeep Kaur, Associate Professor, Department of Computer Applications gave hands on experience of Google Assistant libraries to the students. Participants showed deep interest and enthusiasm.



The event was judged by the resource person along with the CSI core team members. Akshit & Chetan from Department of Computer Sciences won the first prize. Aditya & Saurabh from CSE won second position. Dhanraj and Shreya from BCA got third prize. Cash prizes were given to the winning teams along with the trophies. Dr. Jaiteg Singh Professor & Dean, Department of Computer Applications department gave away prizes to the winning teams. He applauded the efforts of the resource person Dr. Amandeep Kaur and CSI core team for conducting the event successfully. Mr. Preetinder Singh Brar, Programme Incharge, Department of Computer Applications felicitated the CSI core team members by giving appreciation certificates.

## Workshop on IoT and Cloud Computing using NODEMcu

Computer Society of India (CSI) Student Chapter, under the aegis of Department of Computer Applications, Chitkara University, Punjab organized a workshop on “IoT and Cloud Computing Interfacing Lab using NodeMcu” on 15th Oct, 2018.

More than 30 students of BCA registered for the workshop. Mr. Naveen Kumar, Assistant Professor and Mr. Rajesh Kaushal, Associate Professor, Department of Computer Applications were the resource persons. They gave hands-on experience to the students to understand the basics of microcontroller and to transmit the sensor data on the cloud. Students participated in workshop enthusiastically.



Dr. Jaiteg Singh, Professor & Dean, Department of Computer Applications and Mr. Preetinder Singh Brar, Program Incharge, applauded the efforts of resource persons and thanked CSI core team members for successful execution of the event



## Frseher's Party 2018

Matrix Club under Department of Computer Applications organized , 'BIENVENUE' , Freshers party on 21st Sept 2018, to provide students and seniors a taste of campus fun. The evening was filled up with some power-packed performances by senior batch students. Heart throbbing dance numbers, melodious songs, and other cultural performances by the students made the atmosphere extremely energetic.



The enthusiasm for the in-house freshers' party 2018 was appreciable as around 50-60 students participated in a ramp walk .

The contest saw three rounds — a ramp walk, a talent round and a Q&A session. Manyu and Gurpreet, (BCA 2018), won the title of Mr and Ms. BCA and from MCA the titles were bagged by Varinder and Shubhi . Based on the Olympus party theme students came dressed in fancy outfits with quirky props to look like Greek Gods and Goddesses.



Dr. Jaiteg Singh, Professor & Dean, Department of Computer Applications, and Mr. Preetinder Brar, Program Incharge, Department of Computer Applications, were the esteemed judges for the event and they gave away the titles to the deserving students. The event was a huge success as it was thoroughly enjoyed by one and all

## Expert Talk on Patenting



In order to motivate computer application students in the direction of research and innovation, an expert talk was organized on 24 Oct. 2018. Dr. Sachin Ahuja, Associate Director Research, CURIN, delivered the talk on patenting & intellectual property rights . Through the talk, Dr. Ahuja sensitized the students on various aspects of IPR like patents, copyrights, trademarks etc. The talk created awareness among students on ways of creating a wide variety of intellectual goods for consumers.



## Industrial Visit to Infosys

Computer Society of India (CSI) Student Chapter, under the aegis of Department of Computer Applications, Chitkara University, Punjab organized an industrial visit to Infosys Chandigarh on 23rd Oct 2018. 54 students from Department of Computer Applications accompanied by faculty members Mr. Jaswinder Singh and Ms. Tanisha Roy visited Infosys campus.



At Infosys, a technical session was delivered by Mr. Abhishek Verma from Department of Education & Training Assessment (ETA). Mr. Verma informed the students about the recruitment process of Infosys. He shared his experience of preparation and training required for securing a placement in Infosys. He also discussed the current IT trends, skills required to get placed in top IT companies, mantras for success and answered a number of queries of the students. For the students it was good experience of learning corporate practices & work culture.

## Expert Talk on Software Testing

An Expert Talk on Software Testing was organised by CSI Student Chapter under the aegis of Department of Computer Applications on 10th Oct 2018. More than 100 students attended the session. Mr. Vipul Kocher, President, Indian Testing Board and Mr. Mohnesh Bakshi, ISTQB Process Management & Compliance WG Member, interacted with the students of the department and shared various possibilities and potential of software testing as a career for young professionals.

Mr. Mohnesh Bakshi apprised the students regarding the various certifications offered by the International Software Testing Qualifications



Board (ISTQB). During his interaction with the students, Mr. Vipul Kocher touched upon the various career opportunities that are generally pursued by the computer graduates. He also urged the students to look up to software testing as a serious career options. Mr. Vipul also discussed his journey in the field of software industry, and his transition from software developer to software tester.



The talk was organised as a part of series of similar activities aimed at bring awareness amongst the budding software professionals regarding the various avenues that are worth pursuing as a career. The expert talk concluded with felicitation of the speakers by Dr. Jaiteg Singh, Dean, Department of Computer Applications.

## Summer Exchange Program



MCA students, Milan Mittal, Bharat Chhabra, Rajat Banyal, Kartik Sharma and Rishabh Sehgal from Deptt of Computer Applications, participated in the ICT Application of Smart Machinery session under TEEP@Asia project. They were on a one-month intensive "IoT, Smart Machinery, Digital Wisdom" summer program at NCUT National Chin-Yi University of Technology, @Taichung, Taiwan.



Danish Mehta, BCA third year student from Department of Computer Applications, went on a short program to Indonesia "Summer in Surabaya – Bali" : Society Empowerment through "Sociopreneurship" held on 15-28 July 2018.

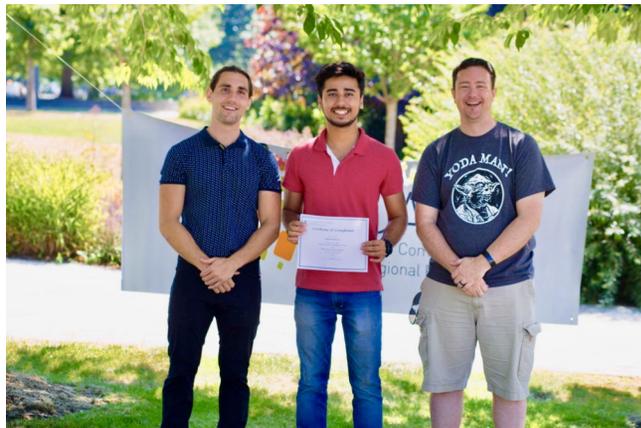


It was a collaboration among three renowned Universities in the Eastern part of Indonesia i.e Universitas Airlangga, Petra Christian University, and Udayana University. This program provided the student with a complete package of 'sociopreneurship experience'.



## Summer Exchange Program

Another group of MCA students comprising Rachit Sharma, and Nimish Kumar were invited to University of British Columbia, Vancouver, Canada for Vancouver Summer Program (VSP), which was from 14th July - 14th Aug 2018. They had gone for a one month course on "Urban Big Data Analysis and Spatial Analysis Using Geographic Information Systems". The first course on urban big data analysis comprised of various latest and trending topics such as data reading, data wrangling, data filtering, basic of R language and gapminder offline graph tool exploratory whereas in other subject, Spatial Analysis Using Geographic Information Systems, the students were given knowledge on Data representation and Building Maps



## International Students @ Chitkara



Four students from Western Sydney University, Australia, successfully completed a semester exchange program at Department of Computer Applications, Chitkara University, Punjab Campus, in July 2018. The four students namely, Chloe McDonald, Hogan Lee, Lloyd Manefield and Rita Belani, underwent stringent training for the designated period.



The visiting international students expressed happiness over the manner in which the sessions were conducted by the faculty members at the Chitkara University Campus.

## Awards and Achievements— Faculty

Dr. Maninder Jit Singh Khanna was awarded PhD degree from Sri Satya Sai University of Technology and Medical Sciences, Sehore ,MP.

Mr. Naveen Kumar, Assistant Professor, delivered expert lecture on Cyber Security at Dev Samaj College for Women, Ambala City, under National Commission for Women scheme.

Mr. Rajesh Kaushal , Associate Professor and Mr Naveen Kumar, Assistant Professor, conducted a DST sponsored workshop on augmented writing skills at IISER, Mohali

Mr. Rajesh Kaushal , Associate Professor and Mr Naveen Kumar, Assistant Professor, are the team members of a committee ,headed by Dr. S.N. Panda, Professor, CURIN department, on a DST project titled **“Remote vital information and surveillance system for elderly and disabled persons”**. The project has been granted a sum of Rs. 61,60,054 from DST .

Mr. Amanpreet Singh, Assistant Professor, was awarded runners up in **Master Code Chef– Season 2, Hackathon**, at Chitkara University and won a prize of Rs 10000.

## Research and Publications @ CA

Singh J., Goyal G., Gupta S., FADU-EV an automated framework for pre-release emotive analysis of theatrical trailers, Multimedia Tools and Applications, ISSN: 1380-7501 (print version) ISSN: 1573-7721 (electronic version), SCOPUS, Web of Science, SCI-E), <https://doi.org/10.1007/s11042-018-6412-8>, Impact factor:1.54

Singh J., Goyal G., Anticipating Movie Success through Crowdsourced Social Media Videos , Computers in Human Behavior, ISSN: 0747-5632, SCOPUS, Web of Science, SCI-E), <https://doi.org/10.1016/j.chb.2018.08.050>, Impact factor:3.53

Singh J., Singh S., Sehra S.S., Rai H.S., Evaluating the performance of map matching algorithms for navigation systems: an empirical study, Spatial Information Research, Print ISSN 2366-3286, Online ISSN 2366-3294 , <https://doi.org/10.1007/s41324-018-0214-y>

Chaudhary D., Singh J., Kothari D.P. , "Applications of Nature-Inspired Algorithms in Different Aspects of Semantic Web." JCS 14 (2), 221-227

Gandhi V., Singh J., “IoT: Architecture, Technology, Applications and Quality of Services.” Raccs 2018, Jaipur, Rajasthan (Springer).

Gandhi V., Singh J., “Comparative Analysis of Existing Latest Microcontroller Development Board.” ICERECT2018, Mandaya, Karnataka (Springer).

Gandhi V., Singh J., “Bluetooth-enabled vehicle anti-theft system using Android-based handheld device.” WECON 2018, Rajpura, Punjab (IEEE Explore).

## Awards and Achievements— Students

Anshuman, BCA-3X, got first prize in “Run for Freedom” race organized on 15th August 2018 at Chitkara University, Punjab.

Three MCA students, Yugam Nagpal, Vinay Nischol and Barinder Singh have been working with CURIN on paid internship.

Naiza Batra , BCA-3Z, won Ladies Hacks in regional Equestrain league, 7th Punjab Horse Show 2018 & State Equestrain Championship at ISTC Kapurthala, under the guidance of university sport board, Chitkara University.

Nipun, BCA-5Y, created a STARTUP named as EduCaffe- And now Educaffe is sponsoring Octahacks(a North India Hackathon conducted in Chitkara itself. He has many feathers of achievements in his cap which include:

- Creation of two space shooting iOS games.
- Became the Punjab region machine learning facilitator and guide
- Got selected by developer student club(founded and funded by Google), Chitkara University
- Soon will be taking evening classes of Android, iOS and machine learning in Chitkara.

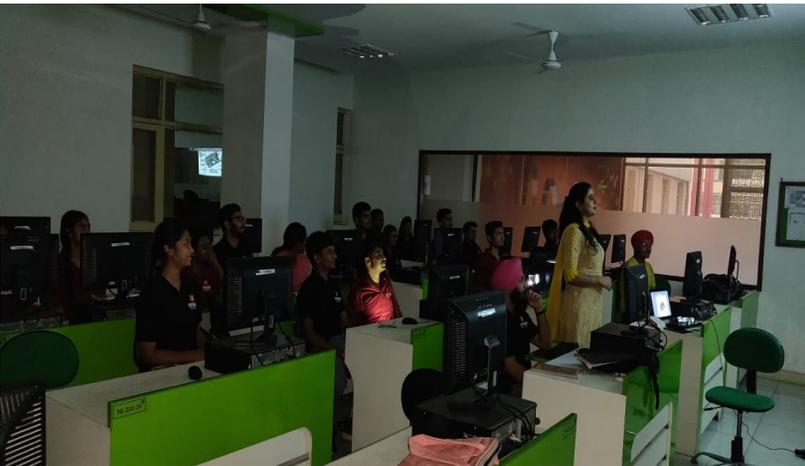
Another BCA-5Y Student, Paras, has many achievements to his credit:

- IT Associate intern Reliance Communications, Paid SMM Intern at M Learning India, Human Resources Intern at Youthvine for 3 months; Social Media Intern and Social Media HR at Around Apni Dilli.
- Social Media Marketing Intern at Posterlelo, Fellow Intern and a Digital PR associate at Laugh Loud Venture Pvt. Ltd.
- Social Media Influencer at Creative Star (Frienden Management Services Pvt. Ltd)
- Campus Ambassador of Posterlelo, Scribee, Wishfie, YSOS, Picartzo, Skillsanta, The Law Learners and CashKaro
- Zomato Reviewer and Google Reviewer at Around Apni Dilli
- An active Social Worker and currently associated with: NSS, Aashray NGO, Retract Soaring Monks NGO
- Secured Rank 1 from Chitkara University in “Grammar Guru” at Learning Pundits.

## CA Steam School 2018



CURIN at Chitkara University had taken an initiative by conducting short skill workshops, STEAM SCHOOL 2018, for Engineering courses since January 2018. The first batch was successfully completed with the participation of 200 students and the current batches are running on predetermined working days during the evening hours (4.30 to 6.30 P.M), the main stakeholders being the hostlers, wherein day scholars are also encouraged to attend.



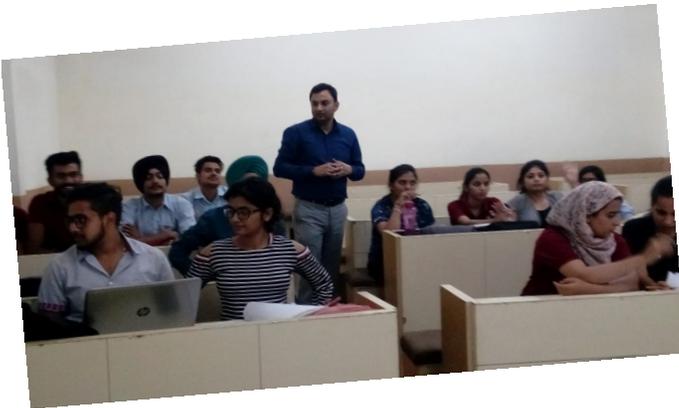
Keeping with the pace, Faculty members from Department of Computer Applications contributed to the effort by proposing workshops under this venture.

Ms. Vidyothma Gandhi, Assistant Professor, Department of Computer Applications and Dr. Amandeep Bhullar, Associate Professor, Department of Computer Applications, proposed a workshop on the topic "Internet of Things: Today's and Tomorrow's Technology". The workshop covered latest topics like Introduction to Internet of Things (IoT) and its kits, Installation of OS on Raspberry Pi and its configuration, basics of Python, introduction and interfacing of sensors, introduction

to IoT cloud environment and sensors data storage and management. This five day workshop was attended by appreciable number of hostellers as well as day scholars. The participants had a good learning experience.

## CA Steam School 2018

Another workshop under Steam School was proposed by Mr. Rajesh Kaushal, Associate Professor, Mr. Naveen Sharma, Assistant Professor and Mr. Jatinder Ashtha, Assistant Professor, Department of Computer Applications on the topic “ Basics of Raspberry PI & Web Interface Development”.



A good number of participants got benefitted from the workshop and got information on the latest topics like Raspberry Pi 3 Installation (Rasbian Operating System), VNC installation & Setup, Interfacing with LED & Relay using GPIO, Understanding HC-05 blue-tooth module and transmitting sensor data to your own cloud.

## CA Students won Laurels @ Amity University



Students of Department of Computer Applications participated in a national event "EUREKA: Innovative Design Projects", held at Amity University, Noida. The competition was held on 20th and 21st December 2018 and was an opportunity for the students to showcase their innovative and technical skills. A good total of 137 teams participated from all over India.

Nine BCA students represented Chitkara University, Punjab, at the event with five IoT based projects. The projects were made under the able guidance of Ms Vidyothma Gandhi, Assistant Professor, Department of Computer Applications. All the projects were highly appreciated and also bagged prizes and positions for the students.



"PROMETHEUS" made by Ripudaman, Abhishek and Saurav bagged **SECOND PRIZE** in Poster Presentation category.

"SMART DIAPER" made by Anmol Batra and Pulkit bagged **THIRD PRIZE** in Innovative Design Projects category.



## Paper presentation at International Conference



Ms. Vandana, Associate Professor, Department of Computer Applications represented Chitkara University at 5th International Conference on Parallel and Distributed Computing (PDGC-2018) from 20-22 December, 2018 held at Jaypee University of Information Technology, Waknaghat, Solan, HP, INDIA.

She presented her research paper and her work was appreciated by all the delegates of the conference and it is submitted to IEEE Xplore for inclusion and publication and further indexing in Scopus as well.

## Faculty Development Program Attended

Mr. Rajesh Kaushal, Associate Professor, Department of Computer Applications and Mr. Naveen Kumar, Assistant Professor, Department of Computer Applications attended a training program on NodeJs from 11-20 Dec 2018.

This training program was conducted by MyTectra, Bangalore. Training program included latest topics on NodeJs including Node package Manager, Shrink-Wrap, Callback and Promises, Building HTTP server, dealing with express, multer and body parser, using synchronous and asynchronous file handling, Configuring express, working with REST and CRUD operations, dealing with NoSQL databases (Mongodb) and handling web sockets.



# Placement Record (2017-18)



**Aayushi Tripathi**  
MCA  
ITBD



**Aman Kumar**  
MCA  
ITBD



**Amit Kumar Chopra**  
MCA  
ITBD



**Simran Bindal**  
MCA  
Igniva Infotech



**Ankita Sharma**  
MCA  
ITBD



**Arun Rawat**  
MCA  
ITBD



**Ashima Makkar**  
MCA  
Indi IT Solutions



**Arisht Jain**  
MCA  
Procodad Technologies



**Ridhima Bakshi**  
MCA  
Infosys



**Chirag Jain**  
MCA  
Virtusa



**Inderpreet Singh**  
MCA  
Netsmartz Infotech



**Shubham Mahajan**  
MCA  
Accenture



**Navleen Kaur**  
MCA  
Infosys



**Nimika Grover**  
MCA  
Infosys



**Ankur Sachdeva**  
MCA  
ITBD



**Parmeet Singh**  
MCA  
Infosys



**Rishabh Sharma**  
MCA  
Infosys



**Sahil**  
BCA  
ITBD



**Rahul Kumar**  
BCA  
ITBD



**Paras Grover**  
BCA  
Infosys

# Placement Record (2017-18)



**Vinit Rathee**  
BCA  
Convergys



**Nadeesh**  
BCA  
ITBD



**Kanika**  
BCA  
Infosys



**Srishti**  
BCA  
ITBD



**Manpreet**  
BCA  
Infosys



**Atul**  
BCA  
Infosys



**Blessy**  
BCA  
Infosys



**Ishan**  
BCA  
Infosys



**Jatin**  
BCA  
Infosys



**Akash**  
BCA  
ITBD



**Gourav**  
BCA  
ITBD



**Muskan**  
BCA  
Infosys



**Naveen**  
BCA  
Infosys



**Pooja Sharma**  
BCA  
Convergys



**Prachi**  
BCA  
Infosys



**Riya**  
BCA  
Infosys



**Rohit Sharma**  
BCA  
Convergys



**Bhumili**  
BCA  
Convergys



**Mahima Jindal**  
BCA  
Convergys

# A BrainTeaser

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

*Solution of last issue*

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

## Editorial Section

*This is the Eighth 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 & Happy New Year”*

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