



Nouvelle Libération

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Newsletter

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A Note from Head

I feel extremely glad that the School of Computer Sciences, Department of Computer Applications has come out with its News Letter. This clearly reveals that the Department is trying to expand in all the spheres of academics, co-curricular & extra-curricular activities. The increasing number of events and achievements shows that the students and faculty members are striving towards the overall development of the Department.

I appreciate the efforts taken by the editorial board in compiling useful information and activities by the Department and for recording the pleasant memories of functions conducted by the Department. At present students are sincerely requested to equip themselves with special skills needed by the Industry.

This e-magazine is essentially required to act as a life line of the department. It will reflect all our activities and happenings in our department. It will also give scope to all the budding professionals to give vent to their creative feelings and outpourings in various forms. I wish all the best to all the faculty members and students of the department.



Laurels brought by CA Faculty

CSI has been in association with Department of Computer Applications since 2012. This year ,CSI Student Chapter, Chandigarh , honored Mr. Vikram Mangla, Dy. Dean, School of Computer Sciences, Department of Computer Applications by electing him as the member of council on 28th March 2015.

Faculty of Department of Computer Applications has been apart of campus connect for last many years and has taught many courses on the pattern of Infosys campus connect. This year, it was a matter of great pride for the department that our two senior faculty members were duly acknowledged for their contributions in the field of education.

Dr. Jaiteg Singh, Associate Professor and Ms. Deepika Chaudhary , Associate Professor, Department of Computer Applications, had been conferred as Bronze partner faculty, under Infosys Inspire-Faculty Excellence Awards (Technical Track). The two also bagged Runner up position in Distinguished Facilitator faculty contest, where faculty members from renowned Campus Connect partner Institutes from across the India participated.



Patents & Copyrights @ CA

Patents & Copyrights are one of the most challenging areas in the field of research and development. Universities and other public research organizations are increasingly protecting their inventions, helping raise additional funding for research and spurring new start ups. Department of computer applications has also contributed to this area by filing patents and copyrights in different areas of science and technology.

Patents

Mr Naveen kumar, Assistant Professor, Department of Computer Applications and Mr Rajesh Kaushal, Assistant Professor, Department of Computer Applications, filed a patent titled "**PORTABLE AND SMART INTENSIVE CARE UNIT**". The inventors developed a prototype for portable intensive care unit (PICU) capable of operation even during the times when a patient is in transit, e.g. between patient room, examining room, operating room, etc. This system is capable of not only monitoring but of administering vital life-saving medicine.

There is a need of equipment or a system which has the ability to interact and transmit the data in real time to the user for effective monitoring and surveillance in crowded area. On these lines, Mr Naveen Kumar and Mr Rajesh kaushal filed a patent titled "**SMART HELMET/HAT WITH SOLAR PANEL FOR SECURITY SURVEILLANCE**". The inventors of the present invention have designed a smart wearable device for security surveillance.

Copyrights

A Parameterized Software Approach to Deal with Sock Puppets, Dt. 4/3/2015 Docket Ref. No. 1-218983919, by Dr. Jaiteg Singh, Deepak Thakur and Tanya Gera

'Safe Miner: A Fine Grained Aspect Level software for Resolving the Sentiment' dated 7/5/2015 Docket Ref. No. 1-2117871821, by Dr. Jaiteg Singh, Deepak Thakur & Tanya Gera

Research and publications @ CA

Research and Development (R&D) is a key element of many organizations and, when well planned and used, enables a business to generate increased wealth over a period of time. To keep up with the growing pace of Research and Development, Faculty of Department of Computer Applications is also giving notable contributions in this area by giving various research papers and book publications from time to time. Some of these publications are:

Research papers

- Chaudhary Deepika, "Comparison of Rule based Semantic Web Reasoners for Ontologies in OWL2 Profile". *International Journal of Advanced Research in Computer Science*, Volume 5, No.3, March-April-2014, ISSN No.0976-5697
- Singh Jaiteg, "An Open Source ETL Tool - Medium and Small Scale Enterprise ETL (MaSSEETL)". *International Journal of Computer Applications* 108(4):15-22, December 2014
- Singh, Jaiteg, *Analysing OpenStreetMap data for topological errors. Int. J. Spatial, Temporal and Multimedia Information Systems*, Vol. X, No. Y, xxxx 1 *INDERSCIENCE* xx 2015
- Kaur Amandeep "Use case Model of QOS with extensible registry protocol" in *IEEE Xplore* April 2015
- Singh Jaswinder, "Use of CK Metrics to Analyze Complexity of JAVA Project Modules" published in *International Journal of Advance Foundation and Research in Computer (IAFRC)*, Volume 1, Issue 6, July 2015.

Books

- Khanna Maninderjit, Sharma Shweta, Chopra Sandeep, "Management of Financial Systems", (ISBN: 978-93-5163-151-4), Edition 2014, Thakur Publisher, Jalandhar

Eye opening workshops @CA

Department of computer applications took an initiative of organizing workshops on technical topics for the benefit and knowledge enhancement of the students .

The first initiative in this direction was taken by Ms Deepika Chaudhary, Associate Professor, Department of Computer Applications, and Mr Jaswinder Singh , Assistant Professor, Department of Computer Applications by organizing a hands on workshop on software project development .

The main objective of the workshop was to give brief overview of different phases of software development life cycle and hands on experience of creating and designing of Use Cases. There was an activity for students in which they gave presentations which were judged by the expert panel formed from the department.

Other workshop in this series was given by Mr Rajesh Kaushal and Mr Naveen Kumar on computer networks. The workshop aimed to provide practical aspect of computer networks to BCA students using CISCO simulator .



Patent workshop for students

In order to encourage the students to think out of box and to give a productive direction to their ideas, Department of Computer Applications organized a sensitization seminar on IPRs for MCA/BCA final year students on 6th August 2015. The seminar was given by Dr. Parikshit Bansal . Dr. Parikshit Bansal is Assistant Professor, (intellectual property management), NIPER, Mohali. It was a very interactive and absorbing talk highlighting the ways of filing pat-



ents and registering for copyrights. The lecture emphasized on very critical topics like Intellectual Property Rights, Importance of IPRs, Classification of IPRs and Intellectual property in Cyberspace. The seminar was highly appreciated by students who took it as an eye opening seminar for a new way of seeing their ideas.

Workshop on intricacies of Java for postgraduate

Department of computer applications organized a Five days workshop on "Core Java" from 11th to 17th June 2015 .It was hosted by Ms. Nishu Bali, Associate Professor and Ms Arzoo Dhiman, Assistant professor at Chitkara university.

Java has become inevitable for the growth and development of new and emerging scenarios of Engineering Sciences..The goal of the workshop was to provide core java knowledge to various streams which included participants from various branches of engineering and mathematics.

The topics that were discussed in the workshop included the conceptual knowledge of core java. The participants were also introduced to the ways of creating and working with GUIs in java .

A group of 21 participants made the workshop a grand success. This workshop benefited all participants in one or other way.



Paper Club-Initiatives taken by CA

In order to encourage research and development among faculty members, Computer Applications Department has formed a technical club which provides a platform for teachers for giving any type of technical input in the form of seminars and workshops. The Paper club is look after by Ms Deepika Chaudhary, Associate Professor, and Dr. Jaiteg Singh, Associate Professor, Department of Computer Applications. Recently, paper club organized an Innovative talk on the topic of "Research from Concept to Dissemination" by Dr. S N Panda, Director, Research, Curin and Dr. Jaiteg Singh on 21st March, 2015. The talk emphasized on the ways



Wall for All-A platform for budding learners

At Chitkara University, the endeavor has always been to hone the skills of the learners. Keeping in line with this tradition, the Department of Computer Applications, Chitkara University, Punjab had come up with an online magazine titled Wall For All. This e-magazine is aimed at providing a common platform to the budding learners where they can share their knowledge as well as the general information pertaining to the computing field. The e-magazine also provides an opportunity to the faculty members to share their ideas and views on topics of general interest. The publication related tasks for this e-magazine are handled by three senior faculty members, namely Dr. Jaiteg Singh, Mr. Preetinder Singh Brar and Mr. Vikas Rattan.

Student Exhibit teaching Skills on international

Students of CA department brought laurels to the University and the department by providing education in international schools.

Mr. Kabir pal singh, a BCA -GBC student, was among the top 7 students selected all over India for teaching in schools of Korea under the AIESEC internship program. Tenure of the course was 45 days during which he taught in three schools namely, The medical -technical Lyceum, Samara, School 53, Samara, SMTL High School, Samara.

Puneet Bali, another BCA GBC student under AIESEC internship program, went to Bulgaria for the project namely, "Global citizens in schools and kindergartens". The hosting local committee for the project



was Sofia UNWE (COLLEGE), Sofia Bulgaria. Under this project, he provided education in the schools of Bulgaria and the topics that were taught by him included cultural understanding, career development and human rights.

Social Causes served @ CA

Department of computer applications took an initiative to act as a catalyst in organizing a seminar from SAKSHAM (Samdrishti Kshamta Vikas and Anusandhan Mandal) on 29th January 2015 to promote the noble cause of eye donation among students and faculty members. SAKSHAM is a national organization working for disabled persons to bring them in the main stream of society. One of its unit Madhav Netra Bank is



working since many years to spread awareness among people regarding eye donation. The event was coordinated by Mr. Naveen Sharma and had very motivating impact on the students and faculty attending the event.

National Ethical Hacking Workshop by CSI

Department of Computer Applications organized 2-day National Ethical Hacking Workshop under the aegis of CSI-Student Chapter, Chitkara University, Punjab co-sponsored by AIESEC-IIT Delhi, on 13th & 14th April, 2015. It was a hands-on workshop on the different tools of Ethical Hacking in the field of Computer Network & Security. Students from different colleges participated in this workshop. The main facilitator of workshop was Mr Bhanu Partap, Tech Bharat Consulting, Delhi. Mr. Partap gave a very interactive session highlighting on the various aspects of ethical hacking which included google dorking, information gathering, spoofing series, network and webhacking and security, viruses worms & Trojans, social engineering and many more.



Excuberanza--A patriotic event by CA on Republic

Department of Computer Applications, Chitkara University, Punjab organized

Excuberanza, an event of one of its kind that was a blend of technical and cultural activity. The event was aimed at bringing to the fore the skills of students of MCA and BCA in using MS-PowerPoint. Held just three days ahead of the 66th Republic Day, the theme "Incredible India" was aptly selected, and the participant teams were required to depict the vivid colours of India through PowerPoint presentations. The



teams had worked hard to prepare these presentations and were able to showcase not only their mastery over the PowerPoint application, but also the various faces of our great nation that included monuments, leaders, famous/religious places, festivals, armed forces, and much more.

Matrix Club @ CA



"All work no play makes Jack a dull boy" Keeping this in mind, A Techno-cultural club, Matrix, was founded on 15th February, 2007 with a vision to provide a platform to hundreds of students of Computer Applications department to showcase their inborn talent, to nurture their skill and to develop their qualities which help them to achieve their ultimate goals of life.

The Matrix club has organized some of the finest events ever. Some of the landmark events taken up until now are T-Echo, Paint ball at Explore'15, T-Echo, technical Quiz in break time activity, Ethnicity—a blend of multiple cultures technical and cultural activities.

Placements @ CA

Chitkara University has put the enhancement and expansion of placement opportunities at the heart of its strategic vision. Its aspiration is “an inspiring and enriching educational experience” for all students. In support of this, the Education Strategy makes a commitment to the provision of placement learning, and preparing students to become graduates who can contribute positively and effectively in the workplace. Keeping with the pace, faculty at department of Computer Applications is making maximum efforts on its part to educate the students so that they can compete with the outside world. The results of endeavor efforts of Chitkara University and faculty of Department of Computer Applications was that more than 60% students of MCA managed to find a place in the corporate sector in companies with big names which include I-Gate, Infosys, L&T Infotech, Tech. Mahindra, Wipro, Opentext, Sna power engg. Chandigarh, Hitachi, Capegemini, Syscom corporation Ltd, Megrisoft Mohali, Philips, MWP Chandigarh and the list is expected to increase in future.

Student Achievements @ CA

Students of Department of computer applications proved their worth in various fields of research and development.

Mr Kumar Satyam, a BCA student, filed a patent on portable human recognition system. The patent is based on an idea of a system which can recognize human on move. The devices that were earlier developed in this direction were for static recognitions. Mr Vikram Mangla, Dy Dean, department of computer applications and Ms Arzoo Dhiman, Assistant Professor, department of computer applications helped and made the application registration of the project possible.

Economy Eye BR 1.0, a consolidated database of citizens of a country storing all the information of their economic contribution was an idea for which Kumar Satyam, BCA student claimed a copyright. Copyright registration to the given software was issued on 5th May 2015.

One of our budding student, Saurabh sharma, from MCA was rewarded as the best trainee at Wipro Technologies.

Mr. Vaibhav, an MCA student, took industrial training under CURIN (Chitkara University Research & Innovation Network) on the topic titled “Remote Data Communication between Ambulance & Doctor Using Android Application”. The objective of the project was to provide data communication between authorized doctors and the person in ambulance during critical conditions. Vaibhav developed a Mobile app for the said project. Through this application, doctors can see patient’s vital parameters on smart phones and suggest aids accordingly. The project was guided by Dr S.N Panda, Director, Curin and Mr. Rajesh Kaushal, Assistant Professor, Department of Computer Applications.

CA Students Associate with Microsoft

Microsoft has appointed various students of Chitkara University as ambassadors of Microsoft. These students, “Microsoft student Partners (MSPs)” are appointed after recommendation from respective department heads and passing rigorous tests laid out by Microsoft. As MSPs, They are entitled to attend trainings from Microsoft leaders to enhance the knowledge about cutting edge technologies, get recruited for Imagine Cup, the world's premier student technology competition, build applications, work closely with Microsoft and the other MSPs, and build an important network of contacts, acquire the tools and training to lead technology discussions on campus, chance to work for Microsoft after graduation.

To achieve the above stated goals, all MSPs have come together to form a club which can host several activities in the campus. Some of the activities already performed by club are:

- Live streaming on “Women in IT” on 30th September, 2014
- Webinar on “Changes in IT in 20 years” on 17th October, 2014
- Seminar on “Wearable Technologies” on 31st October, 2014
- “Swachh Bharat Abhiyaan” on 4th November, 2014

Microsoft is also eager to sponsor for upcoming events for prizes worth up to Rs. 6 lacks and training support to students.



Academic Achievements of the Students of MCA

BCA-CU, Batch 2012



Shivani Ahuja
Ist Position



Nikita Kalra
IInd Position



Gurvinder Singh
IIIrd Position

BCA-MCA, Integrated



Shipra Chauhan
Ist Position



Suvidha
IInd Position



Sumeet Pal Kaur
IIIrd Position

MCA-CU, Batch 2012



Nitish Sapra
Ist Position



Shifali Chhabra
IInd Position



Prerna Gupta
III rd Position

MCA-CU, Batch 2013



Vinit Bhatia
Ist Position



Rohit
IInd Position



Amanjot Singh Duggal
IIIrd Position



Jashan Preet Tiwana
IIIrd Position

Alumni Speaks @ CA



Chitkara University is one of the best universities in North India in terms of Education, Opportunities for Jobs and also helps to explore students hidden talent by providing platform as a National level Technical fest and cultural Fest As Chitkara University has a tagline "Explore Your Potential" in this Chitkara University is 100 percent true as it gives 'n' number of opportunities for exploring your potential.

In terms of teaching staff, they don't only teach you but they will guide you as a friend or parents. In terms of facilities or infrastructure, Chitkara University provides all the things on right time & right place. In last, I like to thank you so much for the best faculty of Computer Application department and HOD Mr Vikram Mangla and Program Incharge Deepika Chudhary Ma'am for their support to make me comfortable in any situation in the campus & bless me with golden future.

Nitish Sapra
MCA(2012-2015)



I had a great time at Chitkara University. I got to learn many new things here. Chitkara gave me a huge platform to bring forward my skills. I would like to thank my department Mr. Vikram Sir for his unconditional support and motivation and Ms. Deepika ma'am for her guidance. I got a new way to take up things. When now i step out of this college i take back many new things and memories spent. I have become a complete confident girl. Thanks to the department.

Shefali Chhabra
MCA(2012-2015)



I have explored myself to a great extent. The three most wasome years i have spent here. The University, department supported me so well and always welcomed me with their warm wishes. I am a changed girl now more confident, more hardworking, more knowledged. Please rememeber me always as a student who has given her best efforts to prove that CA department is the best

Mani Mittal
(2011-2014)



Chitkara University is a place where all the facilities that a student needs during his studies is available. All the faculty members are very cooperating and helping in nature. The infra structure of the UNniversity is also lucaratuve and catchy

Vinit Bhatia
(2013-2015)



This is only because of Chitkara University and its stacff that i am in a good company, Wipro. All thank goes to my staff and Chotkara. I enjoyed as wellas learnt a lot in this University. May this University grow more and more.

Rohit
(2013-2015)

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