Department of Computer Applications

Computer Applications programs were initiated in the year 2006. The primary objective of the programs is to provide a foundation of computing principles and business practices for effectively using/managing information systems and enterprise software. The Department of Computer Applications has been imparting instruction with the most modern curriculum and syllabus to students of the post graduate and graduate courses. The department's endeavor is to play a vital role in the applications of computers by promoting work in the field of latest technologies like Android App Development, Python, Software Engineering, Operating System and Business intelligence. The Department is committed to providing an exciting academic program to prepare students for the greatest challenges of the 21st century.
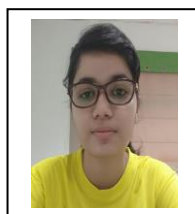
Academic Excellence

Batch – 2016 (MCA)

Dakshika Sood I 1610981515	Davinder Pal Singh II 1610981516	Chirag Jain III 1610981514

Batch – 2017 (MCA)
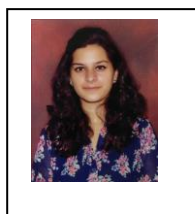
Komal I 1710981512	Arshiya Nagpal & II 1710981505 &	Vinay Nischal 1710981529
Megha Mukherjee III 1710981514	Paras Manchanda III 1710981519	Abhishake Jain III 1710981533

Batch-2016 (BCA)

Ritika Vohra	Anushka Aggarwal	Manendar Pal Singh
I	II	III
1610992579	1610992801	1610992549

Barch- 2017 (BCA)

Takshita Kapur	Karan Singh Rawat & Bishal Saha	Debraj Aditya
I	II	III
1710992600	1710992544 & 1710992712	1710992714

Faculty Achievements

S. No.	Name of Faculty	Achievement
1.	Dr. Jaiteg Singh Ms. Deepika Chaudhary Ms. Nishu bali	Recognized as Bronze partner faculty under Inspire-The Campus Connect Faculty Partnership Model
2.	Mr Rajesh Kaushal Mr Naveen Sharma	Patent on "Smart Helmet/Hat With Solar Panel For Security Surveillance", published on 01/09/17, Application No.1285/DEL/2015 A
3.	Mr. Jaswinder Singh	CSI best Accredited Student branch Award, 2017
4.	Mr. Jatinder Ashta	Recognized as Silver partner faculty under Inspire-The Campus Connect Faculty Partnership Model
5.	Mr. Mohit Garg	Awarded as the "Star faculty" by BBA Department.

PUBLICATIONS

Books

Sr. No	Title of the Book	Author's Name	Publisher	ISBN no.	Month & Year of Publish
1.	Computer Structure and Applications	Jaiteg Singh	Madaan publications, Punjabi University	978-81-8465-423-3	revised and extended edition, February, 2018

In case of Book chapter

Sr. No	Title of the Book	Author's Name	Publisher	ISBN no.	Month & Year of Publish	Name of the Topic	Page No.
1.	Lecture notes in networks and systems	Jaiteg Singh	Springer-Verlag	DOI:10.1007/978-981-10-10-01-3818 Print ISBN978-981-10-3817-4	20th June 2017	A proposed technique for cloud computing security, innovations in Computer Science and engineering	89-95

Journals (International/National)

Sr. No	Paper Title	Name of the Journal	International /National	Author's Name	ISSN no.	Month & Year of Publish	Page No.
1.	A Hybrid DL and RL based reasoner for optimum entailments in Ontologies	Indian Journal of Science and Technology	National	Ms. Deepika Chaudhary, Jaiteg Singh	Vol. 10,(23) ISSN: DOI:10.17485/ijsg/2017/v10i23/111164 ISSN(print):0974-6846 ISSN(online):0974-5645	June 2017	Online
2.	Using latent semantic analysis to identify research trends in open-StreetMap	ISPRS, international journal of Geo-information	International	Jaiteg Singh, S.S. Sehra, H.S. Rai	Vol. 6(7), ISSN: 2220-9964	July 2017	195-226
3.	Designing Ideal task partitioning scheduling model in distributed computing scenario	International journal of Engineering and Computer Science	International	Maninderjit Singh Khanna, Jatindera sheetlani	Vol. 6, Issue 1 ISSN: 2319-7242 DOI:10.18535/ijecs/v6i11.22	November 2017	23219 to 23223

| 4. | Applications of nature-inspired algorithm in different aspects of semantic web | Journal of Computer Science , science publications USA | International | Ms. Deepika Chaudhary, Jaiteg Singh, D.P.Kothari | Vol. 14,issue 2 DOI : 10.3844/jcssp.2 018.221.227, ISSN Print: 1549-3636 | Feb 2018 | 221-227 |
| 5. | A perspective on MPLS in WDM networks | International Journal on Future Revolution in Computer Science & Communicatio n Engineering (IJFRCSCE) | International | Taruna Sharma, Himanshu Sharma | Vol. 4, Issue3 ISSN: 2454-4248 | March ,2018 | 309 – 312 |

Conferences (International/National)

Sr. No	Paper Title	Name of the Conferences	Date	Venue of Conferences	International /National	Author's Name	ISSN no.	Page No.
1.	OWLSIM- A simulator for ontology visualizatio n in semantic web	Chitkara Univerity Doctoral Consortium (CUDC-2017)	July,20 17	Chitkara University	National	Ms. Deepika Chaudhary	--	--
2.	Cloud – centric IOT based framework for disaster manageme nt	Chitkara Univerity Doctoral Consortium (CUDC-2017)	July,20 17	Chitkara University	National	Mr. Preetinder Singh Brar	--	-
3.	Performan ce Variation Of Routing Protocols With Mobility And Scalability in MANET	Annual conference of the Computer Society of India	21st November 2017	Bhartya Vidyapeeth educational complex, Delhi	International	Ms Arzoo Dhiman, Manish Kumar, Chetan Sharma , Ajay Kumar Rangra	Vol. 638 DOI:https://doi.o rg/10.1007/978-981-10-6005-2_2 Print ISBN:978-981-10-6004-5 online ISBN:978-981-10-6005-2	09-21
4.	Variations in routing protocol resulting in	Annual conference of the Computer	21st November 2017	Bhartya Vidyapeeth educational complex,	International	Ms Arzoo Dhiman, Chandan deep Kaur,	DOI:https://doi.o rg/10.1007/978-981-10-6005-2_3 ISBN:978-981-	23-31

	improved energy utilization in WSN	Society of India		Delhi		Akanksha Sharma Chetan Sharma	10-6004-5 online ISBN:978-981-10-6005-2	
5.	IOT based Smart chair cum bed for critical ill patient	2nd National Conference on Health Technology Assessment	24th - 25th Feb 2018	School of Public Health, PGI, Chandigarh	National	Mr. Rajesh Kaushal, Mr Naveen Kumar Sharma	PMC/CME/2018 6765	--
6.	IOT Based Emergency Healthcare Solution for Patients in Transit	2nd National Conference on Health Technology Assessment	24th - 25th Feb 2018	School of Public Health, PGI, Chandigarh	National	Mr Naveen Kumar Sharma,Mr. Rajesh Kaushal	PMC/CME/2018 6765	--
7.	Protocol performance comparison in web service discovery- A review	INDIACom-2017, "International conference on computing for sustainable global development sponsored by IEEE	2017	Bhartya vidyapeeth educational complex, Delhi	International	Amandeep kaur Bhullar, Rachna Soni	ISSN 0973-7529; ISBN 978-93-80544-24-3	946-949

Invited Lectures Organized by School/College

Sr. No	Names of resource person	Industry /Academic /R&D	Date	Topics covered
1	Mr. Harpreet	Bebo technologies	12th April2017	Expert Talk on Selenium Webdriver
2	Mr. Gurmeet Singh Chaddha,	Tech. Lead, Appmobi IT Service Pvt. Ltd., Mohali	31st July 2017	Expert Lecture on Latest Trends in IT
3.	Mr. Vishal Zakhmi	Six Sigma	3rd September 2017	Six Sigma Fundamentals

Workshops/IOHC/Seminar Attended by Faculty

S. No.	Name of Faculty	Name of Workshop/ STTP/ IOHC/ Seminar	Date	Venue
1.	Mr.Preetinder Singh Brar	Chitkara University Doctoral Consortium - CUDC-2017	13th May 2017	Chitkara University, Punjab

2.	Ms. Amandeep Kaur Bhavra Ms. Neelam Rani Mr. Ravinder Singh Mr. Mohit Garg Mr. Jatinder Ashta Mr. Jagwinder Singh	Design Thinking Workshop: Make Money with Design and Technology	26th June 2017	Chitkara University, Punjab
3.	Mr.Preetinder Singh Brar	Adoption of Web-based Technologies in Random Assessment/Quiz Generation and Evaluation	26th June, 2017	Chitkara University, Punjab
4.	Mr.Maninderjit Singh Khanna	Research Funding Proposal Planning, Writing and Winning	28th June 2017	Chitkara University, Punjab
5.	Ms. Nishu Bali Mr.Maninderjit Singh Khanna Ms.Vandana Bajaj	Writing proposals for publishing textbooks	29th June 2017	Chitkara University, Punjab
6.	Ms.Puninder Kaur Ms. Payal Kaushal Mr.Vipul Mandhar	Orientation	3rd July 2017	Chitkara University, Punjab
7.	Ms. Amandeep Kaur Bhavra Ms.Neelam Rani Mr.Jatinder Ashta Mr.Mohit Garg Mr.Ravinder Singh Mr.Jagwinder Singh Mr.Preetinder Singh Brar Ms. Nishu Bali	Handling Python (For Beginners)	4th- 5th July 2017	Chitkara University, Punjab
8.	Mr.Vikas Rattan	Application Development Using Python, QT Designer and IOT	4th July 2017	Chitkara University, Punjab
9.	Mr. Naveen Sharma Ms.Taruna Sharma Mr.Jaswinder Singh Mr.Rajesh Kaushal Ms.Vandana Bajaj	Scientific computing for data analysis and wireless sensor network	4th – 5th July 2017	Chitkara University, Punjab
10.	Mr.Mohit Garg Mr.Jatinder Ashta Mr.Jagwinder Singh Ms.Vandana Bajaj	Routing Techniques with practicing Layer 2 and Layer 3 Networking Concepts	6th – 7th July 2017	Chitkara University, Punjab
11.	Ms.Taruna Sharma	Modelling Real-Time Video Processing System in Simulink using video and image processing blockset	6th July 2017	Chitkara University, Punjab
12.	Mr.Vikas Rattan Ms.Deepika Chaudhary	Understanding Brands through Brain using Neuromarketing and Sentiment Mining	6th July 2017	Chitkara University, Punjab

13.	Mr.Jaswinder Singh Ms.Amandeep Kaur Bhavra Ms.Neelam Rani Mr.Preetinder Singh Brar Ms. Nishu Bali	Application Development Using Python, QT Designer and IOT	6th – 7th July 2017	Chitkara University, Punjab
14.	Mr.Preetinder Singh Brar Mr.Vipul Mandhar	"CS Curricula design"	15th July 2017	Chitkara University, Punjab
15.	Mr. Naveen Sharma	Enhancing writing skills: En Route Publication	22nd August 2017	Chitkara University, Punjab
16.	Mr. Naveen Sharma	IoT Training	15th–29th November 2017	Technoscript, Pune

Workshops/IOHC/ Seminar Organized by Faculty

S. No.	Title	Date or Duration	Resource Person
1.	App Development using Python, QT designer and IOT	6th – 7th July 2017	Mr. Rajesh Kaushal Mr. Naveen Sharma
2.	Routing Techniques with practicing Layer 2 and Layer 3 Networking Concepts	6th – 7th July 2017	Mr.Ravinder Singh
3.	Learn to program with Scratch	5th -6th February 2018	Ms Deepika Chaudhary
4.	Workshop on Tally ERP 9.0	7th February 2018	Mr. Maninderjit Singh Khanna
5.	Applications and implementation of Data structure	8th-9th February 2018	Mr. Vikas Rattan Mr. Preetinder Singh Brar
6.	Workshop on computer networks	8th-9th March 2018	Mr.Ravinder Singh Mr. Mohit Garg
7.	Teaching Through Scaffold Characteristics Using CBLE	10th March 2018	Mr. Rajesh Kaushal Mr. Naveen Kumar Sharma
8.	Teaching Through Scaffold Characteristics Using CBLE	27th March 2018	Mr. Rajesh Kaushal Mr. Naveen Kumar Sharma
9.	Web development workshop	15th March 2018	Mr Jatinder Ashta Mr. Jagwinder Singh

Student Achievements (Academics) (National/International)

S. No.	Name of Student	Roll No.	Event/Project	Achievement (Position/ Medal)	National/International Level
1.	Pulkit jain	1710992562	Web Weaver	2nd position	National
			NCO	168th rank	National
2.	Ankita Ayushi	1610981547 1610981501	CSI Inter College presentation Competition	1st Position	National
3.	Vinay Nischal	1710981529	Selected for Internship of TT Consultants, Chandigarh	Selected for Internship	National
4.	Rachit Nimish	1710981542 1710981529	Going to University of	Summer Exchange Program	International

	Kartik	1710981539	British Columbia, Canada (14-July-2018 to 14-Aug-2018) for Summer Exchange Program		

Students Achievements in Co-curricular Activities

S. No.	Name of Student	Activity Name	Achievement (Position/Medal)	Date of Activity	Place of Activity	National/International Level
1.	Riya Arora	Khadi Miss India Himachal 2017	1st Runner up	30th July 2017	Holiday Inn Panchkula	National
2.	Riya Arora	Toastmaster club activity	Certified as the trainee/mentor for all the officers as the Vice President in Public Relations at divisional level of Toastmasters International Club.	8th September 2017	ISB Mohali	Divisional Level
3.	Prabhat Thakur	Chess competition	1st Position	3rd October 2017	IIT- Mandi Himachal	National
4.	Prabhat Thakur	Chess competition	1st Position	20th November 2017	Jaypee University Solan H P	National
5.	Ankit Dhingra	Battle Day Cultural fest	2nd Position	3rd–5th November2017	Hamirpur	National
6.	Kartik	55th National Roller Skating Championship	3rd position (Bronze medal)	18th – 31st January 2018	Kurukshetra	National

Education tour

Sr. No	Place of Visit	Name of School/College	Date	Description
1.	One-day tour to Shri Fatehgarh Sahib and Fateh Burj	School of Computer Sciences/ Department of computer Applications	18th April 2018	Commemorated World Heritage Day, Wherein an educational tour to the Fatehgarh Sahib and Aam Khaas Bagh was organized. The tour helped to sensitize the students about the rich heritage of the Sikh religion, including the heroic acts, selfless deeds and poignant saga of the Sikhs. The tour proved fruitful in inducing respect for all religions amongst the students.
2.	One day tour to Old heritage sanctums at Kurukshetra	School of Computer Sciences/ Department of computer Applications	18th April 2018	On occasion of World Heritage Day.

Name of the Club	Department	Name of the Activity	Date
Matrix Club	Computer Applications	Orientation Day 2K17	23rd August 2017
		Fresher's Party 2K17	16th September 2017
		Entertainment Ke Liye Kuch bhi Karega 2k17	27th September 2017
		Splitsvilla 2K17	7th November 2017
		Excuberanza'2k18	22nd January 2018
		Address by VC Ma'am (Orientation for first year)	30th January 2018
		Blood Donation camp	16th February 2018
		Logo Quiz-Explore 2018	31st March 2018
		A'bientot 2k18	21st April 2018

FAREWELL 2018

Excuberanza 2018

World Heritage Day 2018

Blood Donation Camp 2018

Sr. No.	Name of the Society	Department	Name of the Activity	Date
1	Computer Society of India	Computer Applications	Expert Lecture on latest trends in IT	31st July 2017
2	Computer Society of India	Computer Applications	Tech Hunt	8th November 2017
3	Computer Society of India	Computer Applications	Workshop on Scratch Training Enablement Program	5th -6th February 2018
4	Computer Society of India	Computer Applications	workshop on Tally ERP 9.0	7th February 2018
5	Computer Society of India	Computer Applications	Workshop on Data Structure using C	8th -9th February 2018
6	Computer Society of India	Computer Applications	Attended a 1-day workshop on CSI foundation day at CDAC Mohali	7th March 2018
7	Computer Society of India	Computer Applications	Workshop on Computer Networks	8th -9th March 2018
8	Computer Society of India	Computer Applications	Workshop on Web Development	15th March 2018
9	Computer Society of India	Computer Applications	Code Cracker	16th March 2018