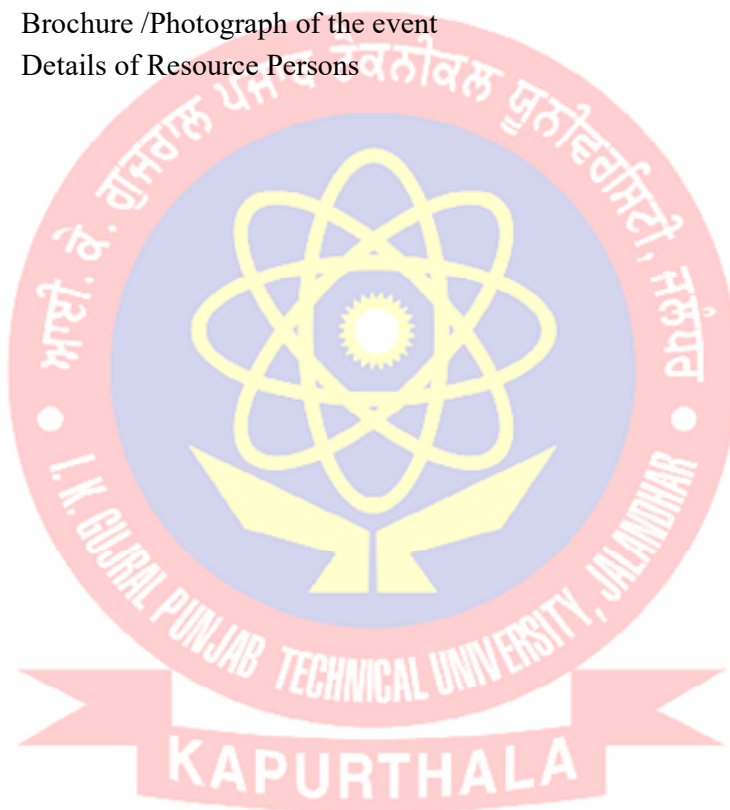


3.3.2

Department: Computer Science & Engineering
Workshops/ Seminars conducted on Research
Methodology, Intellectual Property Rights,
entrepreneurship, skill development

Documents Attached

- Report of the event
- Brochure /Photograph of the event
- Details of Resource Persons



Reports of the Events & Details of Resource Persons

Events held in the Department of CSE

1. 2-days Workshop on Android App Development

Department of Computer Science and Engineering of IKGPTU, Kapurthala organized 2-days Workshop on **Android Application Development in collaboration with i3 Indiya Technologies, New Delhi in the year 2017..** The students of B. Tech (CSE) and M.Tech (CSE) participated in the workshop and were provided theoretical as well as hands on practice on Android Application Development. Training was based upon Android Manifest file, layouts, XML, GUI design and mini projects on Android.

2. 2 Days Workshop on “Data Science using Python”

Department of CSE, IKGTPU, Main Campus, Kapurthala conducted 2 days workshop on **“Data Science using Python” during 9th – 10th March, 2018. Mr Chandra Mani Sharma who acted as a resource person is a trenchant scholar from the field of Data Science and has conducted over 100 workshops on Computer Vision, Data Science, Deep Learning, across the country.** Students got exposure on Python programming and its applications, in solving problems using machine learning and other approaches.

3. 1 day workshop on Machine Learning

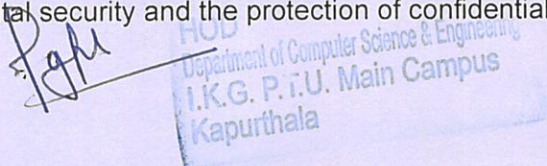
CSE Dept. Organized a one day workshop on machine learning on 24-Sep-2018. The workshop was conducted by **Mr. Puneet Jindal (Head of Data Science, RATIGAIN) and Ms. Shilpa Garg (Technical Consultant, GenPact).** The main objective of this workshop was to make students aware about the newest emerging technology in computer era. Students were made to understand concept of Machine learning that helps in analysing the data as well as identifying trends.

4. Tech Fest

This event was majorly handled by 3rd year students of department of Computer Science and Engineering. Various technical as well as non-technical events were organized in the department from 25-09-2018 to 27-09-2018 in the year 2018 to encourage the talent and skills of the students. Some of the successful technical events were IT Quiz, The Coder which helped in enhancement of skill set of students. Extempore and Key Master helped students in their overall personality development and confidence boost. Various art based events were also part of the techfest.

5. 1 day Workshop on DIGITAL SELF DEFENCE SECURITY

Department of Computer science & Engineering organized a workshop on DIGITAL SELF DEFENSE SECURITY In Collaboration with CDI on 22nd February, 2019. This workshop helped students to know about basic strategies by Internet users to ensure digital security and the protection of confidential personal electronic information . It


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focussed on how it is important for students to have awareness of such self defence practices. Concept of Hacking was also introduced to the students.

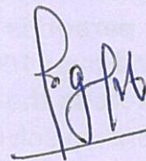
6. 2 days workshop on LINUX

Department of Computer science & Engineering organized a workshop on LINUX on 10th And 11th June 2019. Dr Vipin Gupta conducted the workshop.

During the workshop, Students learnt about the Installation Process of Linux in a VMWare Environment. Students were introduced with Basic Linux Commands. Students were taught about various concepts of Linux like Usage of Files, File Editing and Networking concepts.

7. Invited Talk on Cloud Computing

Dr. Rajkumar Buyya, Professor, University of Melbourne, Australia was invited to deliver a talk on cloud computing. He explained Aneka software for the implementation of cloud computing.



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Photographs of the Events

Department of Computer Science and Engineering



Department of Computer Science and Engineering was established in 2010. The Department offers B.Tech. Computer Science & Engineering and M.Tech. Computer Science & Engineering. The Computer Science students learn to develop, test various algorithms and problems in various domains. The Department also provides exposure to emerging technologies.

Programme Offered

Programme	Intake	Duration
B.Tech. – Computer Science & Engg.	60	4 years
M.Tech. – Computer Science & Engg.	25	2 years

Research Areas

- Network Security
- Computer Networks
- Big Data Analytics
- Information Retrieval and Information Security
- Cloud Computing
- Image and Video Processing

Infrastructure/Labs

The department have following five laboratories:

- Programming Lab
- Data Science Lab
- Research Lab
- IBM Lab
- Networking Lab

Faculty Members

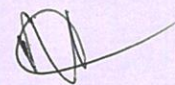
Name	Designation	Specialisation	Experience
Dr. Monika Sachdeva	Associate Professor & Head	Network Security	20 Years
Mr. Dinesh Gupta	Assistant Professor	Big Data, Cloud Computing	9 Years
Er. Rajdeep Singh	Assistant Professor	Wireless Networks	7 Years
Dr. Anshu Bhasin	Assistant Professor	Computer Networks, Fiber Optics based Networks	18 Years
Dr. Pooja	Assistant Professor	Digital Image Processing	11 Years
Dr. Alok Kumar Singh K.	Assistant Professor	Video Processing	7 Years

Events Organised

- 6-days National Workshop on **Big Data Analysis** organized by IKGPTU & AICRAD Study Pvt. Ltd. (June 6–11, 2016).
- 2-day Workshop on **Android Application Development** in collaboration with i3 Indiya Technologies (October 12-13, 2017).
- 3-day Workshop on **Cloud Computing & Social Network Analysis** (March 27-29, 2017).
- 2-day Workshop on **Data Science using Python** (March 9-10, 2018).

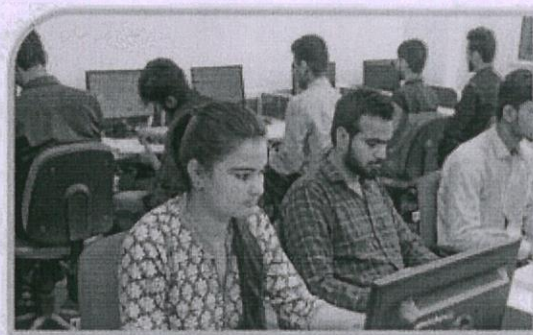
Faculty Participation/Paper Presentation in Conferences

- Sachdeva, Monika (2017), "**Taxonomy of Network Layer Dos Attacks in Wireless Sensor Networks**" presented at 2017 Chandigarh, International Conference on Communication, Computing and Networking (ICCCN-2017), NITTTT, Chandigarh, India.
- Kushwaha, Alok (2017), "**A Recent Survey for Human Activity Recognition based on Deep Learning Approach**" presented at 2018 Shimla, Fourth International Conference on Image Information Processing (ICIIP), Shimla, India (Co-author-Dhillon, Jagwinder and Chandani).
- Sharma, Pooja (2016), "**Effective Image Retrieval Using Polar Cosine Transform and Local Binary Patterns**", presented at 2016 New Delhi, IEEE India International Conference on Information Processing (IICIP-2016), DTU, New Delhi, India.


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Research Lab



Data Science Lab

EVENTS ORGANISED/STUDENT ACTIVITIES



Two Days' workshop on "Aneka"




Workshop on Crowdsourc Google by Mr. Ekant Puri



Fresher's Party organised by CSE Department



Student of CSE Department in Inter College Youth Fest


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Research Lab



Data Science Lab

EVENTS ORGANISED/STUDENT ACTIVITIES



Two Days' workshop on "Aneka"



Workshop on Crowdsourcing Google by Mr. Ekant Pur



Fresher's Party organised by CSE Department



Student of CSE Department in inter College Youth Fest

EVENTS ORGANISED/STUDENT ACTIVITIES



Inauguration ceremony Huawei ICT Competition 2019-2020 by Honourable Vice Chancellor



Dr. Raman Kumar received Best Tutor Award by Honourable Vice Chancellor

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AWARDS/ACHIEVEMENTS OF STUDENTS

Name	Achievement/Award	Event	Year
Ankit Gautam (B.Tech. CSE 6th Sem)	3rd Position (National Finals)	Huawei ICT Skill India Competition	February 2019
Ankita Sharma (M.Tech. CSE)	MHRD scholarship (Full Fee) Holder	4 Months Training at CDAC with Microsoft on Network Security	February 2019
Shilpa Jassal (B.Tech. CSE 6th Sem)	2nd Prize in Youth Festival	Mimicry	October 2018
Ankur Raj (B.Tech. CSE 4th Sem)	2nd Prize in Youth Festival	Quiz	October 2018
Gurkamal Kaur (B.Tech. CSE 6th Sem)	3rd Prize in Youth Festival	Classical Singing	October 2018
Varun Kanwar (B.Tech. CSE 4th Sem)	3rd Prize in Youth Festival	Poster Making	October 2018
Mridul Sharma (B.Tech. CSE 4th Sem)	Gold Medal (State)	Fencing	June 2018

EVENT ORGANISED



Guest Lecture by Mr. Sahil Gupta
Senior PM at Qualcomm



Workshop on
"Data Science using Python"



Workshop on Machine Learning
with focus on Tensor flow



To encourage the talent and skills of the students,
Department organized events like key Master, Extempore,
Collage Making, Free Hand Sketching, The Coder, IT Quiz.

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