

FACULTY NAME

Assistant Professor
PG Department of Information Technology
GGDSD COLLEGE Chandigarh
India -160030

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DOB: 17th September 1982

**Educational Qualifications****Ph.D. in Computer Science and Engineering pursuing**

Chitkara University Institute of Engineering and Technology,
Chitkara University, Punjab, India

PhD Thesis: *Development of an Authenticated Cryptography Algorithm to Enhance the Security of IoT Based CCTV Network.*

Supervisor: Dr. Amanpreet Kaur and Dr. Vidhyotma Gandhi

Qualified U. G. C. (NET) in Computer Science and Applications (2012)

M.Phil. (Computer Science) Chaudhary Devi Lal University, Sirsa, India (2009)

MCA (Master of Computer Applications) - Punjab Technical University, Jalandhar, India (2007)

MSc.(Information Technology) –Panjab University Chandigarh, India (2004)

Bachelor of Computer Applications (BCA) Punjabi University, Patiala, India (2002)

Teaching/Research Experience

- 10th July 2006- till date

Assistant Professor in PG Department of Information Technology, GGDSD College, Chandigarh

Teaching both undergraduate and postgraduate classes

- 12th July 2005 -31st March - 2006

Assistant Professor in Department of Computer Applications, Cordia College for Girls at Sanghol, Punjab

Areas of Interest**Publications****(Journal/Book Chapters)**

- IoT and Data Security

Journal Publications:

Kawalpreet Kaur, Amanpreet Kaur, Yonis Gulzar, Vidhyotma Gandhi “Unveiling the core of IoT: A Comprehensive Review on data security challenges and mitigation strategies”, *Frontiers of Computer Science*, Springer, 2024

Kawalpreet Kaur, Amanpreet Kaur, Vidhyotma Gandhi and Bhupendra Singh “Securing IoT CCTV: Advanced Video Encryption Algorithm For Enhanced Data Protection”, *Applied Data Science and Smart Systems*, Taylor and Francis Group (2023)

Kawalpreet Kaur, Amanpreet Kaur, and Vidhyotma Gandhi “Analysis of public awareness regarding utilities of Closed-Circuit Television (CCTV)”, *IEEE*, 2023

Kawalpreet Kaur, and Vidhyotma Gandhi. "Internet Of Things: A Study on Protocols, Security Challenges and Healthcare Applications." 2022, *IEEE*, 2022.

Kawalpreet Kaur “A significant effect of biometric in cloud computing systems”, *ACADEMICIA: An International Multidisciplinary Research Journal* (ISSN:2249-7137) Vol.5,

Issue-10, (October 2015).

Book Chapters:

- Kawalpreet Kaur, “Technology: An Indian Perspective” published a chapter in the book “Comprehending INDIA Varied Dimensions”, Manak Publications Pvt. Ltd. (2022).
- Kawalpreet Kaur, “Journey of Information Technology Advancement in India after Independence” published a chapter in the book “India at 75”, Manak Publications Pvt. Ltd. (2021).

**Seminars/
Conferences/Symposiums
(Paper Presented)**

- Presented a paper on “Securing IoT CCTV: Advanced Video Encryption Algorithm For Enhanced Data Protection”, Chitkara University Doctoral Consortium CUDC 2023
- Presented a paper on “Analysis of public awareness regarding utilities of Closed Circuit Television”, the International Conference on Computer Communication Control and Automation on 18th Aug 2023
- Presented a paper on “Internet of Things: A study on Protocols, Security Challenges, and Healthcare Applications”, 2nd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), IEEE (2022).
- Presented a paper on Internet of Things, Sensors and Usage Of Fog Computing: An Overview in ICSSR sponsored Seminar on Recent Trends in Information Technology, PG Department of Information Technology, GGSDS College Chandigarh on 25 March 2022.
- Presented a paper on "Significance of Mobile Agents in Cloud Computing" published in the National Seminar on Emerging Trends in Information Technology: Challenges and Strategies in GGSDS College, Sec-32, Chandigarh ISBN No. 978-93-82068-25-9 pp: 9-11 on 31st Jan 2014.
- Presented a paper on "The Digital Economy: A framework for new and growing economic patterns" in the National Seminar on 11th Feb 2012".

**Refresher
Courses/Workshops/
Training Programmes**

- Attended NEP2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by UGC-Malaviya Mission Teacher Training Centre (MMTTC), Panjab University, Chandigarh from 16th to 29th 2024.
- Attended one week Faculty Development Programme on “Trends in Technological Intelligence 2023 (T2I-2023)” conducted by Babu Banarasi Dasnorthern India Institute Of Technology, Lucknow from 21st to 25th August 2023.
- Attended one week Faculty Development Programme on “Cyber Security with Python” conducted by E & ICT Academy, IIT Kanpur from 21st to 25th March 2022.
- Attended one week Faculty Development Programme on “Blockchain Technology” conducted by Electronics & ICT Academy, IIT Roorkee at PMLSD Business School from 20th to 24th January 2020.
- Attended One day Seminar on “Information and Communication Technology(ICT) for Education, Research and Innovation(IERI-2018) conducted by the Department Of Computer Science and Applications, Panjab University,

Chandigarh on 26th April,2018.

- Attended Workshop on “Indian Research Information Network System(IRINS) sponsored by RUSA organized by GGSDS College on 1st December 2018.
- Attended a National seminar on “Goods and Services Tax” organized by GGSDS College on 20th January, 2018.
- Attended a National seminar on “Reforms to Transform India” organized by GGSDS College on 27th March, 2018.
- Attended Instructional Skills Workshop on "Faculty Development Programme" organized by GGSDS College in December 2016.
- Attended Workshop on “Automation System in Education Sector” sponsored by RUSA organized by S.D. College, Sector 32, Chandigarh on 18th to 20th February 2016.
- Attended Workshop on "R Software" organized by GGSDS College from 7th to 9th April 2016.
- Attended hands on workshop on “Cloud Computing organized by A2IT Mohali on 5th November,2016.
- Attended a National seminar on “Business Growth and Corporate Sustainability” organized by GGSDS College Chandigarh on 17th January, 2014.
- Attended National level Seminar on “Education Reforms: Challenges & Strategies” organized by GGSDS College Chandigarh on 9th Feb, 2013.
- Attended a seminar on “Being a scientist ;Legal &Ethical Aspects” organized by GGSDS College Chandigarh on 30th January, 2013.
- Attended a National seminar on “Economic Reforms: An Unfinished Agenda” organized by GGSDS College on 11th February, 2012.
- Attended a National Symposium on “Biotechnology: Innovations & Challenges” sponsored by DBT organized by GGSDS College on 6th February, 2010.
- Attended a Seminar on “Career Dimensions Of Media” under Faculty Development Programme organized by GGSDS College on 18th August, 2008.

Administrative Experience

- Successfully conducted University Exams (CHD 25) in 2017 (as Centre Superintendent)

Kawapreet Kaur