Dr. Amit Kumar Goyal

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+91-9899979748

**Summary**

Doctor of Philosophy (CSE)

Total Experience: 23 years 10 months

Diverse Roles: Academics, Administration, and Groundbreaking Research Endeavours

Subject Taught: Computer Organization & Architecture, Microcontroller and Embedded System, Operating System, Object Oriented Programming, DBMS, Cryptography & Network Security, Compiler Design, Computer Networks, C programming, Unix and shell programming, Distributed DBMS, ADBMS, Principles of Paradigm, Python Programming, Arduino

# Professional Experience

## Position: Professor

Department of Computer Science and Engineering, UIE, Chandigarh University, Mohali Duration: March 2024 – Present

## Roles And Responsibilities

* + Currently guiding Three Ph.D. scholars
  + Managing Exams as Deputy Centre Superintendent of Examinations
  + Guiding projects to UG and ME students as Project Supervisor
  + Member of University RDC of Ph.D. (CSE)
  + Member of Expert Panel of Ph.D. RDC in various universities
  + Evaluated three Ph.D. thesis as external examiner
  + Reviewer of International Conferences/International Journals
  + DQAC member
  + Coordinator of FSC (Faculty Sensitization Campaign)
  + SPOC NeoColab
  + Member of interview panel for the recruitment/promotion in the university.
  + SPOC CoE - Data Science and cognitive science.

## Position Held: Associate Professor

KIET Group of Institutions, Ghaziabad (*Formerly, Krishna Institute of Engineering & Technology*)

Duration: August 2005 – March 2024

* + Associate Professor from August 2008- March 2024
  + Assistant Professor from August 2007- July 2008
  + Senior Lecturer from September 2006 - July 2007
  + Lecturer from August 2005 - August 2006

## Roles And Responsibilities

* + Took on the role of ISO In-Charge for the Department of Computer Applications from June 2018 to Mar 2024, ensuring compliance with ISO standards and quality management.
  + Actively contributed to the department's success during the National Board of Accreditation (NBA) visits in 2012 and 2018, aligning the department with accreditation requirements.
  + Held the position of Departmental NIRF/NAAC Coordinator from August 2022 to

Mar 2024, focusing on achieving excellence in ranking and accreditation.

* + Acted as a member of the Board of Studies (BoS) for the department from 2018 to 2024.
  + Acted as the Associate Dean Student Welfare at KIET Group of Institutions from May 2015 to June 2018.
  + Played an active role as a member of the Anti-Ragging Squad, Committee at KIET Group of Institutions from 2016 to 2024, contributing to the creation of a safe and welcoming environment.
  + Successfully fulfilled the role of University Evaluation Coordinator, ensuring the efficient assessment of academic performance.
  + Led the Paper Moderation Committee as its head within the department from 2019 to 2022, guaranteeing fair and consistent evaluation of academic papers.
  + Assumed the responsibility of a Head Examiner in external copy evaluation for the university, maintaining the quality and integrity of the examination process.
  + Demonstrated expertise as a Centre Controller and Nodal Officer for the university entrance examination UPSEE, ensuring the smooth conduct of the examination.
  + Participated actively as a member and ACS in various examination committees of the institute, contributing to the examination process's efficiency.
  + Served as the Admission Cell Coordinator for the department from 2017 to 2019, overseeing the admission processes and ensuring a seamless experience for applicants.
  + Maintained an active role as a member of the Departmental Anti-Ragging and Disciplinary Committee within the Department of Computer Applications from 2007 to 2024, fostering a culture of discipline and ethical conduct.
  + Held the position of hostel Rector at KIET Group of Institutions from 2015 to 2019, ensuring the well-being and discipline of hostel residents.
  + Served as the Chief Rector of Boys' Hostel at KIET Group of Institutions from 2019 to 2024.

## Position Held: Lecturer

Shobhit Institute of Engineering & Technology, Saharanpur Duration: August 2001 - August 2005

# Academic Credentials

* + Ph.D. (Computer Science & Engineering) from Invertis University, Bareilly in 2023
  + M. Tech. (Computer Science and Engineering) from AKTU, Lucknow in 2010
  + MCA (Hons.) from BIT, Bhilai, in 2001
  + B.Sc. (Physics, Chemistry, Mathematics) from CCS University, Meerut, 1997
  + Intermediate from U.P. Board, Allahabad, 1994
  + High School from U.P. Board, Allahabad, 1992

# Research Publications

*Journal Papers*

* + Vikas Goel, Amit Kumar Goyal, “An Improved Analysis of Secured Permutation and Substitution based Image Encryption”, Journal of Cybersecurity and Information Management, 2023, 12(1), 30- 40. ***Scopus Indexed***
  + Amit Kumar Goyal, Gaurav Agarwal, Arun Kumar Tripathi and Mangal Sain, “Secure and Efficient Multicast-Enabled Handover Scheme Pertaining to Vehicular Ad Hoc Networks in PMIPv6” in Applied Sciences, 2023, 13(4), 2624, ***SCIE Indexed (impact factor 2.838)***
  + Amit Kumar Goyal, Gaurav Agarwal, Arun Kumar Tripathi, Vikas Goel, Girish Sharma, Kueh Lee Hui, and Mangal Sain, “A Comprehensive Cost Analysis of intra-

domain Handoff with authentication cost in PMIPv6 for vehicular ad-hoc networks (VANET)” Electronics, 2022, 11(10), 1625, ***SCIE Indexed (impact factor 2.690)***

* + Amit Kumar Goyal, Gaurav Agarwal, Arun Kumar Tripathi, “Network Architectures, Challenges, Security Attacks, Research Domains and Research Methodologies in VANET: A Survey”, International Journal of Computer Network and Information Security (IJCNIS), 2019, 11(10), 37-44, ***Scopus Indexed***
  + Vipin Kumar, Arun Kumar Tripathi, Naresh Chandra, Amit Kumar Goyal, “Blockchain- Enabled a Transparent and Secure Framework Using Smart Contract for Online Advertisements”, Journal of Critical Reviews, 7 (11), 1246-1255
  + Khushboo Gupta, Amit Goyal and Arun Kumar Tripathi, "A Novel Approach for Cluster Head Selection in Wireless Sensor Network”, International Journal of Computer Application (IJCA),2015, 113(6), pp. 22-27.

*Conference Papers*

* + Vikas Goel, Amit kumar Goyal Ashutosh Sharma, Vikas Jain, Mayank Singh, "Energy Efficient Location-Based XML Indexing in Real-Time Wireless Data Broadcasting for IoT Devices”, IEEE International Conference on Pervasive Computational Technologies **(ICPCT-2025)**. ***Scopus Indexed*.**
  + Mangal Sain, Maame Serwah Dumfeh Brogya, Enrique Ayuso, Amit Kumar Goyal and Aasheesh Shukla,” Enhancing Device Authentication In Iot Security Applications Using Artificial Intelligence: A Survey”, International Conference on Communication, Control, and Intelligent Systems (CCIS), ***Scopus Indexed*.**
  + Kavya S Kumar, Amit Kumar Goyal and [Mangal Sain](https://sites.google.com/site/mangalsain1/), “Lung Cancer detection using concepts of Convolutional Neural Network in Machine Learning”, THE 15th INTERNATIONAL ***IEEE*** Conference On Computing, Communication And Networking Technologies (ICCCNT), Nov 2024. ***Scopus Indexed***
  + Amit Kumar Goyal et al. “TalkifyPy: The Pythonic Voice Assistant", IEEE International Conference on Advanced Computing and Emerging Technologies (ACET), Oct 2024. ***Scopus Indexed***
  + Vikas Goel, Amit Kumar Goyal, Ashutosh Sharma, Dr. Mayank Singh,” Analyze Performance and Market Share of Various Cryptocurrencies”, IEEE International Conference on International Mobile and Embedded Technology Conference (MECON),2022, ***Scopus Indexed***
  + Amit Kumar Goyal, Arun Kumar Tripathi, Gaurav Agarwal, “Security Attacks, Requirements and Authentication Schemes in VANET”, IEEE International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT- 2019) on 27-28 September 2019, ***Scopus Indexed.***
  + Vikas Goel, Mayank Singh and Amit kumar Goyal, “HIoT(healthcare in IoT) a proposed application for diabetic patent during Hospitalization, 3rd International conference on Building Resilience and Sustainability for India for ever changing Turbulent World a Vision for 2030, 21-22 April 2022, IMSUC Ghaziabad, India.
  + Amit Kumar Goyal, Girish Kumar Sharma, “Parameters based comparison between methodologies for designing the data warehouses: a survey”, International conference on Review of Business and Technology Research, 5(1), 2012, pp.288-291.

*Book and Book Chapters*

* + Vikas Goel, Amit Kumar Goyal, Vinay Ahlawat, “Society 5.0”, in book Disruptive

*technologies for Society 5.0, proceedings in WILEY and Scrivener.* ***Scopus Indexed***

* + Amit Kumar Goyal, Gaurav Agarwal, Arun Kumar Tripathi, Girish Sharma, “Systematic study of VANET: Applications, challenges, threats, attacks, schemes and issues in research” in book Green Computing in Network Security: Energy Efficient

Solutions for business and Home published by CRC Press, Taylor & Francis Group, USA Taylor, and Francis, ***Scopus Indexed***

*Patent*

* + Published a national patent titled as “A system to detect the overloaded vehicles at Smart Highways” with patent number- 202211015800 published on 06-05-2022.
  + Published a German Patent, “Biomimetic Designed Intelligent Drone to Remove Weeds from Agricultural Farm Plants using Artificial Intelligence and Deep Learning”, with patent number 202021106121.9 published on 14-12-2021.
  + Published a national patent titled as “Voice Recognition Method, System, and Device Based on the Attention Mechanism”, with patent number- 20221104116, published on 22- 07-2022.
  + Published a national patent titled as “Utilizing machine learning, emergency roadside assistance for smart highway”, with patent number- 202311028852, published on 26- 05-23.

# Reviewer

* + Worked as a reviewer of various international conferences
  + Reviewer of SCOPUS, SCI Journals

# Events Planned G Organized

* + Organized One-Week Faculty Development Program (FDP) on “Recent Advancements in Artificial Intelligence and Generative Models” scheduled from December 9, 2024, to December 13, 2024, at Chandigarh University.
  + Orchestrated and meticulously planned the inter-institutional sports fest "RANN" for four consecutive years 2015 to 2018, featuring a diverse range of sports including cricket, football, basketball, and badminton etc. at KIET Group of Institutions
  + Pioneered the organization and management of the inaugural national-level project competition, "KARMANA-19," on February 23, 2019, marking a significant milestone in the academic calendar at KIET Group of Institutions

# Achievements and Admiration

* + Received certificate of appreciation as DQAC from CSE second year, Chandigarh University
  + Received an Outstanding Faculty Award on SEP 5, 2019, from KIET management.
  + Received the Long Service Awards on SEP 5, 2021, from KIET management.
  + CORONA Warrior award for working as active member of Institute level COVID TASK Force in 2022.

# Professional Development Workshops

* + Resource person for Value-Added Course (VAC) on “Basics of Ethical Hacking” in online mode from 16th December 2024 to 4th January 2025 at Chandigarh University.
  + Taught Python with a specialization in Artificial Intelligence and Machine Learning as part of a Technology-Based Entrepreneurship Development Program under the DST Entrepreneurship Training Initiative at KIET Group of Institutions.

# MOOCs Certification

* + Successfully completed Certificate Program conducted by Stanford University on “Cryptography-I”.
  + Successfully completed Certificate Program “HTML, CSS, and JavaScript for Web Developers” an online non-credit course authorized by Johns Hopkins University and offered through Coursera.
  + Successfully completed Certificate Program,” Introduction to HTML5” an online non- credit course authorized by University of Michigan and offered through Coursera.
  + Successfully completed Certificate Program Programming for “Everybody (Getting Started with Python)” an online non-credit course authorized by University of Michigan and offered through Coursera.
  + An online non-credit course authorized by University of London and Royal Holloway, University of London and offered through Coursera “Information Security: Context and Introduction.”
  + Successfully completed global certificate MTA: Microsoft .NET Fundamentals (C#)
  + Successfully completed certificate Program on “Introduction to programming in C” conducted by E & ICT Academy, IIT-Kanpur.
  + Successfully completed certificate Program on “Fundamental of Database Systems” conducted by E & ICT Academy, IIT-Kanpur.
  + Successfully completed certificate Program on “Python Programming” conducted by E & ICT Academy, IIT-Kanpur.

# Participated in Workshops/FDP/STP/Seminar

* + Participated in one week FDP on “.net using C#” organized by Microsoft and IIMS Meerut from 05 July 2004 to 09 July 2004
  + Participated in three days’ workshop on “Product Migration” organized by Infosys Chandigarh from 03 April 2007 to 05 April 2007
  + Participated in a two-day workshop on “Web Application” organized by KIET from 12 January 2012 to 13 January 2012.
  + Participated in one-day workshop on “CTRCSIT” organized by KIET on 18 June 2012.
  + Participated in ISTE workshop on “Aakash for Education” conducted by Indian Institute of Technology-Bombay (IITB) on 10-November-2012 and 11-November- 2012
  + Participated in Faculty Development Program on “Networking and Security” at KIET Group of Institutions, Ghaziabad, in association with Network Bulls on 13-May-2013.
  + Participated in two weeks ISTE workshop on “Database management Systems” conducted by Indian Institute of Technology-Bombay (IITB) from 21-May-2013 to 31- May-2013.
  + Participated in One Week AICTE approved Short Term Course on “Network Security and Firewalls through ICT” conducted by NITTR-Chandigarh from 18-November- 2013 to 22- November-2013.
  + Participated in Two Days Workshop on “Consumer Protection and Consumer Empowerment in India” organized by KIET- Ghaziabad in association with “Centre for Consumer Studies, Indian Institute of Public Administration, New Delhi” from 28- Feburary-2014 to 01-March-2014.
  + Participated in Two Week AICTE approved FDP on “Software Testing, Database testing and Reliability” organized by Krishna Engineering College-Ghaziabad from 03- March- 2014 to 15-March-2014.
  + Participated in Two Days AICTE approved Seminar on “National Seminar on Computing and Intelligence System” organized by Engineering College-Ghaziabad from 28–March- 2014 to 29-March-2014.
  + Participated one-week STP on “ICT based STC on Open-Source Technologies” conducted by Department of Computer Science and Engineering, NITTTR, Chandigarh from 29- August-2016 to 02-Septemeber-2016.
  + Coordinated one-week STP on “Cloud Computing through ICT” conducted by Curriculum Development Centre, NITTTR, Chandigarh from 06-Feburary-2017 to 10- Febuary-2017.
  + Participated one-week STP on “Curriculum Development through ICT” conducted by Curriculum Development Centre, NITTTR, Chandigarh from 06-Feburary-2017 to 10- Febuary-2017.
  + participated two-week FDP on “ENTERPRENEURSHIP” conducted by NSTEDB, DST, Government of India and TBI KIET from 18 December to 30-December-2017.
  + Participated in one week FDP on “Mathematics for Machine Learning using Python”, organized by KIET Group of Institutions, Ghaziabad from 16–July-2018 to 20-July- 2018.
  + Participated in two days’ workshop on “scientific and technical terminology in science and technology”, organized by KIET Group of Institutions, Ghaziabad in association with MHRD, Department of higher education, Government of India from 1–Novemebr- 2018 to 2-Novemeber-2018.
  + Coordinated one-week STP on “Open-Source Technologies through ICT” conducted by Curriculum Development Centre, NITTTR, Chandigarh from 03-December-2018 to 07- December-2018.
  + Coordinated one-week STP on “Research Methodology” conducted by Curriculum Development Centre, NITTTR, Chandigarh from 06-May-2019 to 10-May-2019.
  + Coordinated one-week STP on “Effective Teaching” conducted by Curriculum Development Centre, NITTTR, Chandigarh from 10-Jun-2019 to 14-Jun-2019.
  + Attended Eight -days FDP on “Universal Human Values and Professional Ethics” organized by TEQIP-III and conducted by VEC, AKTU Lucknow at KIET from 26 December 2019 to 02 JAN 2020.
  + participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Cyber Security" from 26-05-2020 to 30-05-2020 at Jawaharlal Nehru University, New Delhi.
  + Attended AICTE Sponsored Short Term Training Programme (STTP) on “Artificial Intelligence and Machine Learning with Data Science”, organized by the Department of Information Technology GNDC, Ludhiana from 2nd to 7th November 2020 (Online Mode).
  + Attended AICTE Sponsored Short Term Training Programme (STTP) on “potential and challenges for integrating 5G networks and IoT applications in smart city Environment”, organized by the Department of Information Technology HCET from 31-11-20 to 5-12-20.
  + Participated in AICTE Training and Learning (ATAL) Academy Online Advanced FDP on "Cyber Security Vulnerabilities & Safeguards" from 2021-07-12 to 2021-07- 16 at National Institute of Technical Teachers Training & Research Chandigarh.
  + Participated in One-week online ATAL Faculty Development Program on “Cloud Forensics: Techniques, Challenges and Research Directions” from NIT Sikkim from 18- Oct-21 to 22-Oct-21
  + Participated in AICTE Training and Learning (ATAL) Academy Online FDP on "Data Science and Machine Learning” from 2020-11-17 to 2020-11-21.
  + Attended One-week online ATAL Faculty Development Program on “CYBER SECURITY” organized by NIT NAGALAND from 08-Nov-21 to 12-Nov-21
  + Attended one week FDP on "recent trends in cyber security and machine intelligence" organized by IPEC from 31-Jan-22 to 04-Feb-22
  + Attended FDP on “Defect free Construction Repair and Maintenance” organized by

NITTR Chandigarh from 25-Apr-22 to 29-Apr-22

* + Attended 5 Days Global E-FDP on “Unleashing Research Potential: Global Trends and Practices” Organized by Office of International Relations, Galgotias University, Greater Noida, Uttar Pradesh from 07-Mar-22 to 11-Mar-22
  + Attended a 2-week FDP on "Data Analytics using Microsoft Power BI and Qlik Sense Platform" organized by LOGOZON Technologies from JUL 03 to JUL 21, 2023

# Personal Profile

Name : Dr. Amit Kumar Goyal

Father Name : Mr. C. L. Goyal

Mother Name : Mrs. Pushpa Goyal

Sex : Male

Date of Birth : 28.01.1977

Marriage Status : Married

Spouse Name : Mrs. Anu Goyal

Kids : Atharv Goyal, pursuing B.Tech. from Thapar University Arav Goyal, Studying in class 6th.

Permanent Address : 75- A, Maharaja Garden, Behat Road, Saharanpur Language Known : English, Hindi.

# Professional Links

* + <https://www.webofscience.com/wos/author/record/AAQ-8214-2020>
  + <https://www.scopus.com/authid/detail.uri?authorId=57217223147>
  + <https://vidwan.inflibnet.ac.in/profile/326836>
  + <https://orcid.org/0000-0002-5552-0957>
  + <https://scholar.google.com/citations?user=RVr3eRMAAAAJ&hl=en>
  + <https://www.linkedin.com/in/dr-amit-kumar-goyal-b21100161/>

# References

1. [Dr. Girish J., Director, GMR Varalakshmi Foundation](https://www.linkedin.com/in/dr-girish-j-22ab393a)
2. Dr. Jaganath Sahoo, Dean, SVKM's Narsee Monjee Institute of Management Studies (NMIMS)

# Declaration

I, Dr. Amit Kumar Goyal, hereby solemnly affirm and declare that the particulars about me are an accurate and true representation of the best of my knowledge and belief.



Place: Mohali

Date: 06/05/2025 Dr. Amit Kumar Goyal