



L. K. Gavel

Assistant Professor & Head
Department of Computer Science
**Swami Atmanand Govt. English Medium Model
College, Bilaspur (C.G.) -495001**
Mob No: 9826191519 Email: lk.gavel.74@gmail.com

Education Qualifications:

- B. Sc. (Maths) – Guru Ghasidas University, Bilaspur (C.G.)
- M. Sc. (Maths) - Guru Ghasidas University, Bilaspur (C.G.)
- M. Sc. (CS) – Makhanlal Chaturvedi University, Bhopal (M. P.)
- M. Phil (CS) - Dr. C. V. Raman University, Kota, Bilaspur (C.G.)
- Ph.D.(CS) Pursuing - Kalinga University, Naya Raipur (C.G.)

Other Qualification:

UGC NET (Computer Science and Application)

Teaching Experiences:

UG - 15 Year PG - 05 Year

Member/Nominee in Committees:

1. Ex. Member in Board of Study in Hemchand Yadav University, Durg (C.G).
2. Ex. Member in Central Board of Study in Higher Education Department.
3. Ex. VC Nominee for Examination Committee in Hemchand Yadav University, Durg (C.G).
4. Ex. VC Nominee in Board of Study in Govt. V.Y. T. P.G. Autonomous College Durg (C.G).
5. Ex. VC Nominee in Board of Study in Govt. Digvijay P. G. Autonomous College, Rajnandgaon (C.G).
6. Membership of American Institute of Management and Technology (AIMT), USA, a subsidiary of The Global Knowledge Foundation (GKF), Inc., USA.
7. Ex VC Nominee in Governing Body of Rungata Insitute of Science and Management, Kurud Road Kohka, Bhilai, Distt-Durg (C.G.)
8. Pt. Sunder Lal Sharma Open University Bilaspur (C.G.) has been appointed as a Counselor for Computer Science Subject for 15 Nov 2021.
9. Fellow Member of International Institute of Organized Research (I2OR) w.e.f. February 2023.

10. VC Nominee in Governing Body of Sant Rajaram Shadani Nagarik College, Dondi Lohara, Distt- Balod (C.G.)
11. Member of NEP2020 C&C Framework Syllabus Committee in Higher Education Department
12. Worked as subject Expert (Computer Science and Application) in various Inspection Committee and Interview Committee of State/Universities.

Project Guided:

About 500 projects have guided to UG/PG students.

Book Published:

1. “Database Management System”, Scientific International Publishing House (SIPH), ISBN No: 978-93-94002-43-2, 2022.
2. “Handbook on Big Data and Machine Learning”, Book Rivers, ISBN No: 978-93-5515-888-8, 2023.

Other Certificates:

1. “How to write research paper and research project” short term course (from 23/02/2012 to 25/02/2012) in Academic staff college, GGV, Bilaspur (C.G.).
2. National Service Scheme, Empanelled Training Institute (E.I.T.) (from 21/07/2012 to 27/07/2012), Pt. Ravi Shankar Shukla University, Raipur (C.G.).
3. “ICT-Application (I.D.) refresher Course (from 14/01/2013 to 02/02/2013) in Academic staff college, GGV, Bilaspur (C.G.).
4. Seminar on “Quality Assessment, Accreditation and Assurance in higher education” (from 26/02/2013 to 27/02/2013) in Bilaspur University, Bilaspur (C.G.).
5. UGC-SPONSEDED **ORIENTATION PROGRAMME** (from 11/05/2015 to 06/06/2015) in Human Resource Development Centre, GGV, Bilaspur (C.G.).
6. Workshop on “Quality Enhancement in Higher Education” held on 11/07/2015 in Govt. G.S.G. P.G. College, Balod (C.G.).
7. Workshop on “Capicity Building & Choice Based Credit System” held on 25/07/2015 in Govt. G.S.G. P.G. College, Balod (C.G.).
8. Workshop on “ (i) Collection, Maintenance & Preservation of Data at College Level. (ii) Preparation of Reports, Review & Analysis of Examination Results and Preparation of Class wise Performance Report. (iii) Roadmap of Balod District for Next 3 Years on Qualitative Reforms and Extension in Higher Education” held on 01/08/2015 in Govt. G.S.G. P.G. College, Balod (C.G.).

9. Workshop on “Disaster Management: Techniques & Strategy” (from 01/02/2016 to 02/02/2016) in Rajiv Gandhi Govt. Post Graduate College Ambikapur (C.G.).
10. UGC-SPONSEDED **REFRESHER COURSE** in Mathematics, Statistics & Operations Research (from 01/12/2016 to 21/12/2016) in Human Resource Development Centre, GGV, Bilaspur (C.G.).
11. National Workshop on “Cryptography and Network Security” (from 05/10/2017 to 06/10/2017) in Govt. Nagarjuna P.G. College of Science, Raipur (C.G.).
12. Short term Programme on “Statistical Techniques for Business Analytics” (from 22/12/2017 to 26/12/2017) in KIIT University, Bhubaneswar, Odisha.
13. FDP on “Artificial Intelligence and Machine Learning” (from 17-21 December 2018) jointly organized by Electronics and ICT Academy at ABV University, Bilaspur (C.G.).
14. FDP on “Introduction to Programming: A Pedagogical Approach” (from 17-21 June 2019) jointly organized by Electronics and ICT Academy at ABV University, Bilaspur (C.G.).
15. FDP on “Robotics & AI” (from 24-28 June 2019) jointly organized by Electronics and ICT Academy at ABV University, Bilaspur (C.G.).
16. Certificate on “Fundamentals of Deep Learning for Multiple Data Types” from NVINDIA DEEP LEARNING INSTITUTE, INDIA (year 2020).
17. Certificate on “Fundamentals of Deep Learning for Computer Vision” from NVINDIA DEEP LEARNING INSTITUTE, INDIA (year 2020).
18. Certificate of Appreciation as Resource Person in National workshop on “Developing Smart Skills for teaching” at Govt. Kavyopdhyay Hiralal College, Abhanpur, C.G. on 31-July-2020.
19. Certificate of Appreciation as Resource Person in FDP on “Google Class Room” at Govt. D.B. Girls College, Raipur C.G. on 23-25 August-2020.
20. Certificate of Appreciation as Resource Person in FDP on “Effective Teaching & Learning” at Bharti Group of Institution, Durg, C.G. on 05-07 July-2020.
21. FDP on “Evolution from Offline to Online Teaching” (from 30 May to - 3 June 2020) at Satish Pradhan Dnyanasadhana College, Thane (Maharashtra)
22. Online FDP on “Machine Learning for Computer Vision” (from 29 June to 08 July 2020) jointly organized by Electronics and ICT Academy at IIITDM, Jabalpur (M.P.).

23. Online FDP on “LaTex” (from 06- 12 July 2020) jointly organized by LCIT Group of Institutions, Bilaspur (C.G.)
24. Online FDP on “Advanced Optimization Techniques and hands-on with MATLAB/SCILAB” (from 13-24 July 2020) jointly organized by Electronics and ICT Academy at IIITDM, Jabalpur (M.P.).
25. Online FDP on “Data Science for ALL” (from 28 July to 8 August 2020) jointly organized by Electronics and ICT Academy at IIITDM, Jabalpur (M.P.).
26. Online FDP on “Python Programming” (from 07-18 September 2020) jointly organized by Electronics and ICT Academy at IIITDM, Jabalpur (M.P.).
27. Online FDP on “Research and Teaching Methodology” (from 05-11 July 2021) organized by Govt. V. Y. T. PG Autonomous College, Durg, (C.G.).
28. UGC-SPONSEDED Online **REFRESHER COURSE** in Computer Science/ IT/ Applied Electronics (from 13/09/2021 to 25/09/2021) in Human Resource Development Centre, Rastrasant Tukadoji Maharaj Nagpur University, Nagpur (Maharashtra).
29. Online FDP on “Cyber safety and Security” (from 26-31 July 2021) organized by Indan Teacher Education Community, Indore (C.G.).
30. Online FDP on “Android App Development using Java” (from 23 October- 1 November 2021) jointly organized by Electronics and ICT Academy at IIT, Guwahati, Assam.
31. Online FDP on “Natural Language Processing” (from 07-18 February 2022) jointly organized by Electronics and ICT Academy at NIT, Patna (Bihar).
32. Online FDP on “Online Education” (from 27 November-05 December 2022) jointly organized by Indan Teacher Education Community, at Khun Khun Ji Girls P.G. College, Lucknow (U.P.)
33. Online FDP on “Big Data Analytics” (from 18-29 April 2022) organized by Electronics and ICT Academy at NIT, Patna (Bihar).
34. Online FDP on “Research Methodology” (from 02-7 May 2022) organized by Kamla Neharu Mahavidyalaya, Nagpur (Maharashtra)
35. Online FDP on “Cyber Threats and Security Measures” (from 25/07/2022 to 29/07/2022) organized by National Institute of Technical Teachers Training and Research, Chandigarh.

36. Online FDP on “Tools for Engineering Research” (from 19/09/2022 to 23/07/2022) organized by National Institute of Technical Teachers Training and Research, Chandigarh.
37. Online FDP on “Recent Trends in Optimization Techniques for Engineering Applications” (from 21/10/2022 to 27/10/2022) organized VIT-AP University, Amaravati.
38. UGC-SPONSEDED Online **REFRESHER COURSE** in Computer Science (**Education 4.0: Technological Revolution with Artificial Intelligence, Smart System, Robotics and Big Data Analytics**) (from 02/11/2022 to 15/11/2022) in Human Resource Development Centre, Madurai Kamraj University, Madurai (Tamilnadu).
39. Online FDP on “Artificial Intelligence and Machine Learning” (from 10/03/2023 to 23/03/2023) organized PDPM Institute of Information Technology, Design and Manufacturing, Jabalpur, India.
40. Online National FDP on “Research Methodology and Publication Ethics” (from 20/03/2023 to 25/03/2023) organized Internal Quality Assurance Cell (IQAC), Rajeev Gandhi Got. Post Graduate College Ambikapur, C.G., India.
41. UGC-Approved Short-Term Professional Development Programme on “Implementation of NEP-2020 for University and College Teachers” held from 12-20 June, 2023 and obtained “A+” Grade, Organized by Indira Gandhi National Open University (Staff Training and Research Institute of Distance Education New Delhi)
42. Online Capacity Building Programme on “Blockchain Technology and Application” (from 15/06/2023 to 24/03/2023) organized PDPM Institute of Information Technology, Design and Manufacturing, Jabalpur, India.
43. Online FDP on “Transformational Teaching with ICT Tools to Enhance Learning” (from 03/07/2023 to 08/07/2023) organized by AUI-Academic and Administrative Development Center, Atal Bihari Vajpayee University, Bilaspur, C.G., India.
44. Online FDP on “Data Driven Research with Advanced Data Analysis Tools” (from 20/09/2023 to 26/09/2023) organized by AUI-Academic and Administrative Development Center, Atal Bihari Vajpayee University, Bilaspur, C.G., India.
45. Online FDP on “Recent Trends in Artificial Intelligence and Machine Learning for Smart Computing” (from 09/10/2023 to 13/10/2023) organized by Department of Computer Application and Science, Institute of Engineering and Management,

Kolkata, technically sponsored by Computer Society of India (CSI), Kolkata Chapter.

46. Online FDP on “The Future of Generative AI in Academic Research and Publishing” (from 02/01/2024 to 6/01/2024) organized by Department of Computer Application and Science, Institute of Engineering and Management, Kolkata, technically sponsored by Computer Society of India (CSI), Kolkata Chapter.
47. Online FDP on “Recent Trends and Applications in data Science” (from 26/02/2024 to 01/03/2024) organized by Department of Computer Science, Sister Nivedita University, Kolkata.
48. Online International Short Term Program (STTP) on “Machine Learning and Data Science Marvels” (from 12/03/2024 to 16/03/2024) jointly organized by Department of IT, CSE & CSE (AI-ML), Bengal College of Engineering and Technology, Kolkata.
49. Online FDP on “Effective of Generative AI in Modern Research and Industry” (from 29/04/2024 to 03/05/2024) organized by Department of Computer Science, Sister Nivedita University, Kolkata.
50. Online FDP on “AI Tools for Research” (from 30/06/2024 to 05/07/2024) organized by AUI-Academic and Administrative Development Center, Atal Bihari Vajpayee University, Bilaspur, C.G., India.

Patent Registered:

1. Patent on “Deep Learning Based Fast Corner Detection Algorithm Using Matlab”, Published on 07 July, 2022. The patent office journal No: 01/2022.
2. Patent on “Industry 4.0 Based ML and Internet of Things for Observing and Safeguard the energy meter over Internet”, Published on 13 May, 2022. The patent office journal No: 19/2022.
3. Patent on “IOT-Based Pesticide Control System for Sugarcane Using Machine Learning”, Published on 27 Jan, 2023. The patent office journal No: 04/2023.
4. Patent on “IOT Based Lung Cancer Detection Using Artificial Intelligence”, Published on 17 Mar, 2023. The patent office journal No: 11/2023.

Research Paper Published:

1. “Rough Sets for feature selection and classification: An Overview with Applications”, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-3, Issue-5, November 2014, pg 62-69.
2. “Rough Sets: An Overview, Hybridization and Application”, International Journal of Emerging Science and Engineering (IJESE), ISSN: 2319-6378, Volume-3 Issue-3, January 2015, pg 17-26.
3. “A Review of Particle Swarm Optimizations: Feature Selection, Classification and Hybridizations” International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC), ISSN: 2321-8169, Volume -3 Issue-4, April 2015, pg 1816 – 1820.
4. “A Study of Novel Coronavirus (COVID-19) Diagnosis System from CT & X-Ray Image based on Deep Learning Techniques” American Institute of Management and Technology Conference Proceeding (AIMTCP), ISSN (Online) 2769-5093, pg 80-94.
5. “A Survey of Big Data Analytics” In American Institute of Management and Technology Conference Proceeding (AIMTCP), Vol 2 No 1 (online) August 2022, pg 183-194.
6. “A Review of Crowd Monitoring Using Convolution Neural Network” International Conference on Latest Trends on Applied Science, Management, Humanities and Information Technology (SAICON-2023), E-Proceedings, ISBN-978-81-957386-1-8, June 2023, pg 259-275.
7. “Traffic Crowd Analysis Using Deep Neural Networks: A Review” International Journal of Decision Science & Information Technology (IJDSIT), ISSN: 1973-9013 (Print), Volume-11, January 2024, pg 1-15.

National / International Conference Presents:

1. “Application of Rough set with Hybridization Techniques in feature selection and classification: A Survey”, IRSMT-2015, Bilaspur University, Bilaspur (C.G.), 29-30 March 2015.
2. Participated in National conference on “Data analytics, Machine Learning and Security”, Department of Computer Science & Information Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.), 15-16 February 2018.

3. Participated in International conference on “Innovative Research in Science, Management and Technology”, Department of Computer Science and Application, Bilaspur University, Bilaspur (C.G.)-India, 04-05 August 2018.
4. “Rough Sets for Feature Selection and Classification : A Survey”, Govt. E. Raghavendra Rao Post Graduate College, Bilaspur (C.G.), 13-14 January 2019.
5. “A Study of Nonlinear Dimensionality Reduction Techniques with Comparison to PCA” in International conference ICIRSMT-2020, Department of Computer Science and Application, ABV University, Bilaspur (C.G.)-India, 04-05 January 2020.
6. “Soft Computing based Intrusion Detection: A Case Study”, Govt. E. Raghavendra Rao Post Graduate College, Bilaspur (C.G.), 18-19 January 2020.
7. Participated in National conference on “Emerging Trends and Technology in the area of IT, Science, Commerce & Management”, Department of Science, Computers, Commerce & Management, SAI Mahavidyalaya, Bhilai (C.G.), 27-27 February 2020.
8. “A Study of Novel Coronavirus (COVID-19) Diagnosis System from CT & X-Ray Image based on Deep Learning Techniques” in International conference ICIRSMT-2021, Department of Computer Science and Application, ABV University, Bilaspur (C.G.)-India, 27-28 December, 2021.
9. “A Survey of Big Data Analytics” USTM-AIMT Summer International Conference on Innovations in Management, Science and Technology (ICIMST 2022), August-05-06 2022 (Online).
10. “A Review of Crowd Monitoring Using Convolution Neural Network” USTM-AIMT Spring International Conference on Advancement in Science, Management, Technology and Social Science (ICASMTSS), Sant Gahira Guru Vishwavidyalaya Sarguja, Ambikapur (C.G.)- India, April-29-30 2023 (Online).
11. “A Review of Crowd Monitoring Using Convolution Neural Network” International Conference on Latest Trends on Applied Science, Management, Humanities and Information Technology (SAICON-2023), Sai College Sector 6, Bhilai (C.G.)- India, June-26-27 2023
12. “Traffic Crowd Analysis Using Deep Neural Networks: A Review” in 2024 JNVU-ABVU-AIMT Spring International conference on Innovative Research in Science, Management and Technology (ICIRSMT), Department of Computer

Science and Application, ABV University, Bilaspur (C.G.)-India, 05-07 January, 2024.

13. “Vehicle Detection and Classification Using Deep Learning Techniques: A Review” International Conference on Computing Communication and Cyber Security (IC4S’05), Volume 1, SMVDU, Katra, J & K, India, 29th February to 1st March 2024.
14. **Certificate of Reviewer** in International Conference on Computing Communication and Cyber Security (IC4S’05), Volume 1, SMVDU, Katra, J & K, India, 29th February to 1st March 2024.
15. “Traffic Signal Control Using Deep Learning Techniques: A Review” National Conference on Artificial Intelligence and IoT for Sustainable Innovation (AIISI), Department of Computer Science and Application, Atal Bihari Vajpayee University, Bilaspur, Chhattisgarh, India, June-25-26 2024.

Other Award/Appreciation/Guest Lecture:

1. Best Nodal Office (Professor) for SVEEP – 25 January, 2017.
2. Best Nodal Office (Professor) for SVEEP – 25 January, 2019.
3. Best Nodal Office (Professor) for SVEEP – 25 January, 2021.
4. Best Nodal Office (Professor) for SVEEP – 25 January, 2022.
5. I2OR International Teaching Excellence Award 2023- 24 January, 2023.
6. I2OR National Academic Excellence Award 2023- 28 February, 2023.
7. Pride of India Award 2023 by Socially Point Foundation.
8. Indian Glory Awards for Excellence in Research 2023-13 May, 2023.
9. Indo-Thai Educational Excellence Award for the Best Data Mining Expert -27 January 2024.
10. I2OR International Teaching Excellence Award 2024- 24 January, 2024
11. IRSD Academic Excellence Award 2024 – 30 May, 2024
12. Appreciation for Guest lecturer in “Developing Entrepreneurial Competencies - Achievement Motivation” in Online Technical Entrepreneurship Development Programme (TEDT) from Chhattisgarh Industrial and Technical Consultancy Center, Raipur (C.G.) on 19/02/2021.
13. Guest lecture in “Programming Language” in Department of Computer Science and IT at Acharya Panth Shri Grindh Muni Naam Saheb Govt. P. G. College, Kawardha Distt- Kabirdham (C.G.) on 30/12/2021.

14. Guest lecture in “Programming in C” in Department of Computer Science at Govt. Dr. Baba Saheb Bhimrao Ambedakar P. G. College, Dongargaon (C.G.) on 02/01/2022.
15. Best Nodal Office (Professor) for SVEEP – 25 January, 2022.
16. Guest lecture in “Python Language Programming” in Department of Computer Science at Govt. Digvijay Autonomous P.G. College, Rajnandgaon (C.G.) on 23/02/2022.
17. Guest lecture in “Project” for PGDCA Students in Department of Computer Science at Govt. Kangala Manjhi College, Dondi, Distt- Balod (C.G.) on 21/04/2022 & 22/04/2022.
18. Guest lecture in “Programming in Visual Basic” for PGDCA Students in Department of Computer Science at Govt. Nemichand Jain College, Dallirajhara, Distt- Balod (C.G.) on 25/04/2022.
19. Guest lecture in “Database Management System” in Department of Computer Science and IT at Acharya Panth Shri Grindh Muni Naam Saheb Govt. P. G. College, Kawardha Distt- Kabirdham (C.G.) on 16/02/2023
20. Guest lecture in “ICT Tools & career Guidance (How to prepare & write in exam)” in Department of IT at Samadhan Collge, Bemetara (C.G.) on 04/09/2023

Date: 17/07/2024



Signature