



**Name of the faculty:** Dr. Kirti Jain

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**Educational Qualification:**

Ph.D (CSE) RGPV-Bhopal, M.Tech (CSE) RGPV-Bhopal, B.E (CSE)RGPV-Bhopal

**Total Experience:** 17 years

**Areas of Interest:**

Image Processing, Artificial Intelligence, Machine Learning.

**Brief Profile:**

Dr. Kirti Jain holds Ph.D., M.TECH and B.E. degree in Computer Science & Engineering from Rajiv Gandhi Prodigiki Vishvavidyalaya(RGPV), Bhopal, India. She has about 17 years of experience in teaching and research in different areas of Computer Science and currently working as Professor in the School of Advanced Computing. She has many research papers in reputed International and national Journal and international & national patents to his credit. Her research interest includes Image Processing, Artificial Intelligence & Machine Learning.

### **Research publications in International Journal:**

- Published Paper Entitled “A Hybrid Technique for Shape Matching Based on chain code and DFS Tree” in *IOSR Journal of Computer Engineering (IOSR-JCE)* Volume 11, Issue 3, 2013.
- Published Paper Entitled “Partial Feature Based Ensemble of Support Vector Machine for Content based Image Retrieval” in *IJIRCCE* Vol. 1, Issue 3, May 2013.
- Published Paper Entitled “Survey over particle swarm optimization” in *NJESM*.
- Published paper entitled “Performance evaluation of Content Based Image Retrieval on Feature Optimization and Selection Using Swarm Intelligence” in *IACSA(ESCI)* Vol. 7, No. 3, 2016.
- Published paper entitled “Enhanced Content Based Image Retrieval Using Feature Selection Using Teacher Learning Based Optimization” in *IJCSIS(ESCI)* vol.14, No.11, 2016.
- Published paper entitled “Reduced Redundant Data In The Wireless Sensor Network Using Particle Swarm Optimization” in *IJATES* Vol.5 No. 5, 2017.
- Published paper entitled “Review on Text detection and Extraction for catching identities of objects in road video scenes” in *International journal of computer sciences and engineering UGC approved, ISSN :2347-2693*. Vol.6 No. 10, OCT 2018.
- Published Paper entitled “Research paper on Enhancing Cloud data security using Watermarking Technique” in *Journal of Emerging Technologies and Innovative Research*, ISSN: 2349-5162, Vol No. 9 Issue 7, July 2022.
- Published Paper entitled “A Review on the Investigation of COVID-19 Lockdown Influencer on Air Pollution” in *International Journal of Research Publication and Reviews*” ISSN 2582-7421, Vol 3, Issue7, 2022.

### **Papers presented in International Conferences:**

- Paper on “Partial shape feature fusion using PSO-ACO Hybrid method for content based image retrieval” in International Conference at GIFT Bhubaneswar Feb 2017.
- “Assessing and Predicting air quality of Bhopal” in International Conference on Innovative & Emerging Trends in Electrical, Electronics and Computer Engineering(ICIETEECE-22) in 2022.
- “Prediction of peak time of corona virus using ML approach” in International Conference on Innovative & Emerging Trends in Electrical, Electronics and Computer Engineering(ICIETEECE-22) in 2022.

**Papers presented in National Conferences:**

- Paper on “Intrusion detection system for wireless Ad-hoc network” in the National Conference in SIRT Bhopal.
- Paper on “Architecture for detecting attacks using an intrusion detection system for wireless Ad-hoc network” in National Conference at Chouksey Engineering college, Bilaspur.
- Paper on “Enterprise information security Model” in the National Conference in LNCT Bhopal.
- Paper on “Content Based Image Retrieval by structural based approach for partial matching” in National Conference at MITS Gwalior in July 2010.
- Paper on “Optimized Feature Selection for Content Based Image Retrieval Using SVM Genetic Algorithm” in National Conference at MITS Gwalior in Jan 2014.

**Patents:**

1. File Number: 5003922  
Grant Date: Awaited  
Country Filed: Denmark  
Type: Design Patent  
Title: IOT Based Street Lighting System for Smart City
2. File Number: 201731040286  
Published Year: 2017  
Country Filed: India  
Type: Design Patent  
Title: All weather Generator

**Copyrights:**

Registration No-L-86791/2019.

Year- 2019

Title- A Nobel method for Smart Interactive Mirror Based on Artificial Intelligence

**BookChpater:**

Book Chapter in the book entitled a “Futuristic Approach to Different Modern Tools and Technology in Mathematical Education” ISBN:978-81-947377-2-8.

**International/National Conference & Workshops Attended:**

- Participated in a MISSION 10X workshop Conducted at Truba Institute of Engineering and Information Technology at Bhopal from 19<sup>th</sup> July to 23<sup>rd</sup> July 2010.
- Participated in an ADVANCED MISSION 10X workshop Conducted at Truba Institute of Engineering and Information Technology at Bhopal from 18<sup>th</sup> Nov to 19<sup>th</sup> Nov 2010.

- Participated in the STTP Program Conducted at MITS Gwalior from 2<sup>nd</sup> December to 6<sup>th</sup> December 2013.
- Attended and successfully completed the FDP on “Matlab and its applications in Computational intelligence during DEC 14-19, 2017 conducted by MANIT Bhopal and PDPM IIIT, Jabalpur.
- Attended and successfully completed the STTP on “Soft Computing and machine learning” during FEB 05-09, 2018 conducted by MANIT Bhopal and PDPM IIIT, Jabalpur.
- Attended and successfully completed the one-week FDP on “Machine learning and big data” during June 4<sup>th</sup>-8<sup>th</sup>, 2018 organized by RGPV, under TEQIP-III in association with LNCCTE, Bhopal.
- Attended and successfully completed the one-week Workshop on “Counter measures for cyber security and Forensics” during July 30<sup>th</sup>- 03<sup>rd</sup> August, 2018 organized LNCCTE, Bhopal sponsored by MPCST, Bhopal.
- Attended and successfully completed the one-week Virtual FDP on topic “Digital pedagogy for 21<sup>st</sup> century teachers” organized by G.H. Rasoni university saikheda (M.P.) dated on 1<sup>st</sup> march to 8<sup>th</sup> march 2022.

#### **Awards/Recognitions:**

- Received **SRIJAN 2018 Award** for Excellence in subject “Computer Graphics and Multimedia” During the academic session 2016-2017.
- Received **SRIJAN 2019 Award** for Excellence in subject “Computer Graphics and Multimedia” During the academic session 2017-2018.
- Received **SRIJAN 2019 Award** for Excellence in subject “Analysis and Design of algorithm” During the academic session 2017-2018.
- Received appreciation certificate for SRIJAN 2019 Model Competition.

- Participated as Mentor in the “Regional Convention” of 2<sup>nd</sup> **AICTE-ECI-ISTE “Chhatra Vishwakarma awards- 2018”** held on 14<sup>th</sup> Nov 2018 under theme the theme of “ Empowerment of Villages through Technologies”.
- Coordinated at national level workshop on “IOT” held at LNCT in association with Innovians Technologies on 23<sup>rd</sup> and 24<sup>th</sup> Feb, 2018.
- **Successfully completed with Elite NPTEL Exam certificate** on subject “Big data computing” for 8 weeks course Feb-April 2019.
- **Successfully completed NPTEL Exam certificate** on subject “Data Mining” for 8 weeks course Feb-April 2019.
- **Successfully completed NPTEL Exam certificate** on subject “Introduction to Blockchain Technology and Application” for 8 weeks course February-April 2020.
- **Successfully completed NPTEL Exam certificate** on subject “Machine Learning,ML” for 8 weeks course February-April 2020.
- **Successfully completed NPTEL Exam certificate** on subject “Python for Data science” for 4 weeks course September-Oct 2020.