

# Curriculum Vitae

## **DR. DEEP KUMAR BANGOTRA**

Assistant Professor (Computer Applications)

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Higher Education Department, J&K Govt.

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**Objective:** To learn and enhance my capabilities and contribute to the growth of the concern.

**Experience:** Assistant Professor (Since November, 2006)

1. Presently, 10 years and 9 months experience in Higher Education Department, J&K Govt.
2. Earlier, 5 years and 2 months at Baba Ghulam Shah Badshah University, Rajouri, J&K

### **Education:**

1. **Ph.D** in Computer Sciences and Information Technology (2021) from Department of CS&IT, Central University of Jammu. Title: *Intelligent and Secure Opportunistic Routing in Wireless Sensor Networks (WSN)* in **2021**
2. Masters in Computer Applications (**MCA**) from Bangalore University, Karnataka in **2005**
3. Bachelor of Computer Applications (**BCA**) from Guru Nanak Dev University, Amritsar, Punjab in **2002**
4. **10+2** from Central Board of Secondary Education, New Delhi in **1999**

### **AREA OF INTEREST/SPECIALIZATION**

Wireless Sensor Networks, Machine Learning, Software Engineering, Artificial Intelligence and ICT

### **RESEARCH PUBLICATIONS IN INTERNATIONAL JOURNALS/PEER REVIEWED JOURNALS**

1. P. Malhotra, Y. Singh, P. Anand, **D. K. Bangotra**, P. K. Singh, and W.-C. Hong, “Internet of Things: Evolution, Concerns and Security Challenges,” *Sensors*, vol. 21, no. 5, p. 1809, Mar. 2021, doi: 10.3390/s21051809.

[SCI Journal, IF-3.576]

2. **D. K. Bangotra**, Y. Singh, A. Selwal, N. Kumar, P. K. Singh, and W.-C. Hong, “An

**Intelligent Opportunistic Routing Algorithm for Wireless Sensor Networks and Its Application Towards e-Healthcare,”** *Sensors*, vol. 20, no. 14, p. 3887, Jul. 2020, doi: 10.3390/s20143887. [Online]. Available: <http://dx.doi.org/10.3390/s20143887>

[SCI Journal, IF-3.576]

3. **Bangotra, D.K., Singh, Y., Selwal, A. et al. A Trust Based Secure Intelligent Opportunistic Routing Protocol for Wireless Sensor Networks.** *Wireless Pers Commun* (2021). <https://doi.org/10.1007/s11277-021-08564-3>

[SCI Journal, IF-2.017]

4. **Deep Kumar Bangotra & Yashwant Singh & Arvind Kumar Selwal, 2020. "An Intelligent Opportunistic Routing Protocol for Big Data in WSNs,"** *International Journal of Multimedia Data Engineering and Management (IJMDEM)*, IGI Global, vol. 11(1), pages 15-29, January.

[UGC-CARE LIST, INDIA]

5. **D. K. Bangotra, Y. Singh, N. Kumar, P. Kumar Singh, and A. Ojeniye, "Energy-Efficient and Secure Opportunistic Routing Protocol for WSN: Performance Analysis with Nature-Inspired Algorithms and Its Application in Biomedical Applications,"** *BioMed Research International*, vol. 2022, 2022.

[SCOPUS & SCIE Journal, IF-3.246]

6. **D. K. Bangotra, "Applying Motion Sensor Data from Diverse Mobile Devices to Generate Pure Random Numbers,"** *International Journal of Scientific Research in Multidisciplinary Studies*, vol. 8, no. 9, pp. 90–92, 2022.
7. **D. K. Bangotra, "Identification of Different Human Actions through Smart Phone Data,"** *International Journal of Scientific Research in Multidisciplinary Studies*, vol. 8, no. 9, pp. 80–84, 2022.
8. **D. K. Bangotra, "Expert System : A Requirement for Educational Development in Jammu and Kashmir,"** *International Journal of Advanced and Innovative Research*, vol. 5, no. 6, pp. 62–67, 2016.

#### CONFERENCES ATTENDED/CONFERENCE PAPER PUBLISHED

1. **D. K. Bangotra, Y. Singh, and A. Selwal, "Machine Learning in Wireless Sensor Networks : Challenges and Opportunities,"** *2018 Fifth International Conference on Parallel, Distributed and Grid Computing (PDGC)*, pp. 534–539, 2018.
2. **D. K. Bangotra, Y. Singh, and A. Selwal, "Intelligent Opportunistic Routing Protocol in Wireless Sensor Networks: A Security Perspective,"** in *Recent Innovations in Computing, Lecture Notes in Electrical Engineering*, 2020, pp. 221–233.

3. Presented a paper titled “ **Internet of Medical Things: Challenges and Opportunitites**” in 5<sup>th</sup> International Conference on Recent Innovations in Computing ICRIC-2022 organized by Department of Computer Science and IT, Central University of Jammu, 16-17 May,2022.
4. Attended International Conference on Biological Diversity organized by Govt. PG College, Rajouri on 22-05-2022.

#### **COURSE/SEMINAR/WORKSHOPS/FDPs ATTENDED**

1. Attended workshop organized by Department of Computer Science and IT, Central University of Jammu sponsored by AICTE (ATAL) for Faculty Development Programme on Internet of Things (IoT) from 14-18th October,2019.
2. Attended workshop organized by Department of Computer Science and IT, Central University of Jammu sponsored by AICTE (ATAL) for Faculty Development Programme on Artificial Intelligence (AI) from 18- 22nd November, 2019.
3. Attended one week faculty development programme on AI and Machine Learning (AI & ML) organized by Electronics and ICT Academy, IIT Roorkee from 23-27th December, 2019.
4. Attended workshop organized by National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, Ministry of Human Resource Development, Govt. of India on “New Education Policy on Technical Education and Challenges” held on 06-03-2020.
5. Attended short term programme on e-Suraksha- A Practical Approach to Network and Web Application Security, organized by CDAC & Department of Computer Science and IT, Central University of Jammu from 10-12-2018 to 14-12-2018.
6. Attended AICTE Sponsored One Week FDP (Online) on Online Tools for Effective Teaching Organized by Department of Information Technology National Institute of Technology Srinagar, Hazratbal from 26-03-2021 to 30-03-2021.
7. Attended UGC Sponsored Webinar on “MOOCs DEVELOPMENT & DELIVERY ” organized by University of Kashmir on 26-02-2022.
8. Attended short term programme on ICT Based Learning Management System for Effective Teaching in Higher Education organized by Govt. SPMR College of Commerce from 07-03-2022 to 10-03-2022.
9. Attended online 2-Weeks Refresher Course in Computer Science organized by TLC-Ramanujan College, University of Delhi from 02-05-2022 to 16-05-2022.
10. Attended online one week FDP on New Education Policy-2020 organized by TLC-Ramanujan College, University of Delhi from 18-24<sup>th</sup> June,2022.

11. General Orientation Course from 14-12-2015 to 12-01-2016 organized by UGC- HRDC, University of Jammu
12. Refresher Course in Disaster Management(ID) from 07-12-2016 to 29-12-2016 organized by UGC-HRDC, University of Jammu
13. Staff Development Programme on “Soft Computing” organized by the Department of Computer Sciences, BGSB University Rajouri from 11-06-2009 to 25-06-2009.
14. Refresher Course in Computer Sciences organized by UGC-ASC, University of Jammu from 28- 01-2008 to 18-02-2008.
15. Workshop on “Research Methodology and Application of SPSS for Data Analysis” for Economic and related disciplines sponsored by ICSSR for SC/ST scholars organized by Department of Statistics and Department of Economics, University of Jammu from 18-02-2013 to 27-02-2013
16. National Workshop on e-Content Development and Management organized by Government College for Women, Gandhi Nagar, Jammu from 23-24th July, 2015
17. Workshop on Revamping of Teacher Education organized by P.G Department of Education, University of Jammu from 18-19th May,2015
18. As resource person in one week workshop on “Teaching Methodology and Skills for SecondarySchool Teachers from 13-02-2017 to 18-02-2017.
19. As resource persons in Four Week -1st General Orientation Program for College Teachers, Higher Education Department, J&K Govt. from 31-10-2016 to 26-11-2016
20. As resource person in Five day workshop on “Teaching Skills” for Secondary School Teachers under CSS of MHRD Govt. of India from 13-02-2017 to 18-02-2017.
21. As resource person in Five day workshop on “Teaching Skills” for Secondary School Teachers under CSS of MHRD Govt. of India from 16-02-2016 to 20-02-2016

#### **INVITED AS RESOURCE PERSON/GUEST SPEAKER/INVITED LECTURE**

1. Invited as resource person to deliver an Online Lecture on Internet of Things (IoT) by Department of Computer Science and IT, Central University of Jammu on 09-02-2022.
2. Invited as resource person to deliver an Online Lecture on Wireless Sensor Networks and Opportunistic Routing by Department of Computer Science and IT, Central University of Jammu on 10-11-2021.
3. Delivered a Guest Lecture on Cyber Awareness organized by Govt. Degree College, Jourian, J&K on 01-12-2021.
4. Delivered a Guest Lecture on Mobile Phone Safety and Security by Govt. Degree College, Jourian, J&K on 01-06-2022.
5. Invited Lecture on Basic Statistical Techniques in Educational Research and SPSS,

organized by Govt. College of Education, Canal Road, Jammu on 08-09-2022.

### **OTHER THAN TEACHING & RESEARCH**

1. Organizing secretary and Editor in National Seminar on “Current Trends in Mobile computing”, Nov 28-29, 2008
2. Edited proceedings of National Seminar on “Current Trends in Mobile Computing” organized by School of Mathematical Sciences & Engineering, BGSB University Rajouri, November 28-29, 2010.
3. Compiled and prepared college Newsletter-The Teacher for Govt. College of Education for the years 2012-2018
4. Organized 3-week “Computer Training Workshop” for Non-Teaching & Support Staff of the College during May – June, 2014
5. Acting as facilitator for managing web content of college website [www.gcoedu.in](http://www.gcoedu.in)
6. Convener of Publicity cell, GCOE Jammu
7. Member of Academic Council, SC/ST Monitoring cell, Printing committee, IQAC/UGC committee, Internal Assessment Committee, Discipline Committee
8. Actively involved in providing Information Technology support to staff members and different departments of the govt. college of Education, Jammu.
9. Acted as resource person for teaching IACT and Computer Awareness in B.Ed and M.Ed Courses respectively, Directorate of Distance Education, University of Jammu.
10. Acted as External Practical Examiner for B.Ed/B.Sc/B.A/BCA Computer Practical's, University of Jammu.
11. Acted as External Paper Setter for MCA/M.Sc(IT), University of Jammu.
12. Member of Project Committee and Admission committees of the Department of Information Technology, BGSSBU, Rajouri.
13. Contributed in formulating syllabi for MCA and MSc. IT for Baba Ghulam Shah Badshah University, Rajouri.
14. Supervised at least two projects of last semester students per year of MCA and M.Sc (IT).
15. Acted as Placement Coordinator for PG department of Information Technology, BGSSBU, Rajouri.
16. Member of Anti Ragging Squad, BGSSBU, Rajouri.
17. Acted as External Practical Examiner in conducting various examinations of MBA & B.Tech courses of BGSSBU, Rajouri.

### **MEMBER/CONVENER OF VARIOUS COMMITTEES**

1. IQAC, Co-Coordinator w.e.f 2017-18 till date.

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|------------------------------------------------------------------------------------------|------------------------------------------------------|
| 2. Purchase Committee                                                                    | 9. Library Committee                                 |
| 3. Feedback Portal, Smarth Portal, JKHRMS, JKHED Biometric Attendance, Jk.pi.360.net.in. | 10. Sports/Games Committee                           |
| 4. Website Content Management Committee                                                  | 11. e-Content Development Committee                  |
| 5. PMSSS                                                                                 | 12. Browsing Centre and e-Content Development Studio |
| 6. College Admission Committee                                                           | 13. Motor Vehicle committee                          |
| 7. Store Stock Verification Committee                                                    | 14. Grievance Redressal Committee                    |
| 8. Examination Committee for M.Ed Programme                                              | 15. SPARSH Committee                                 |
|                                                                                          | 16. Printing and Stationary                          |
|                                                                                          | 17. Smart Class and EDUSAT                           |

### **AWARDS/ACHIEVEMENTS**

1. Remained **In-Charge Head** of the P.G Department of Information Technology for the period of 2 years at Baba Ghulam Shah Badshah University , Rajouri.
2. Qualified **SLET** in Computer Sciences in 2005 conducted by UGC-University of Jammu
3. Qualified PhD entrance examination of **Hyderabad University** in 2008.
4. Got selected as lecturer in Higher Education Department by **JK Public Service Commission**, 2011.
5. Got selected as **Bank Probationary Officer** in Syndicate bank (Nationalized Bank) in Jan 2010
6. **Topper of MCA** with 77.68 % from Bangalore University, Karnataka. (First class with Distinction)

### **BIO DATA**

Nationality: Indian Gender: Male

Marital Status: Married

Date of Birth: **20/04/1982**

Languages: English, Hindi, Dogri, Punjabi\*

Residential Address: Gurah Brahmna, Patoli,

(\*: Partially)

PO- Muthi, Akhnoor Road,

Jammu-181205

I hereby declare that information stated above is true to the best of my knowledge and belief.

Dr. Deep Kumar Bangotra

