Curriculum Vitae

Personal Information:

- Full Name: DEEP KUMAR BANGOTRA
- Contact Information:
    - Address: GURAH BRAHMNA PATOLI, PO-MUTHI, JAMMU
    - Phone Number:9419173519
- Email: deepbangotra.ap@gmail.com, ttjhed.00010004@jk.gov.in
- Date of Birth:20-04-1982

Educational Qualifications:

- **Ph.D** in Computer Sciences and Information Technology (2021) from Department of CS&IT, Central University of Jammu in 2021
- Masters in Computer Applications (**MCA**) from Bangalore University, Karnataka in 2005
- Bachelor of Computer Applications (**BCA**) from Guru Nanak Dev University, Amritsar, Punjab in 2002
- **10+2** from Central Board of Secondary Education, New Delhi in 1999
- Specialization: Wireless Sensor Networks, Machine Learning and IoT

Professional Experience:

1. Presently, 12 years and 6 months experience as Assistant Professor and Head in Higher Education Department, J&K Govt.
2. Earlier, 5 years and 2 months as Assistant Professor and Head in PG Department of Information Technology, Baba Ghulam Shah Badshah University, Rajouri, J&K

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 Commerece 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 18-24th 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 Secondary School 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

Research and Publications:

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. Ojeniyi, "**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. Presensed a paper titled " Internet of Medical Things: Challenges and Opportunites" in 5th 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.

Membership in Professional Bodies:

- Memberships: **Association for Computing Machinery** (ACM)

Awards/Achievements and Recognitions:

1. Remained **In-Charge Head** of the P.G Department of Information Technology for the period of2 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 withDistinction)

Additional Responsibilities:

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MEMBER/CONVENER OF VARIOUS COMMITTEES

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1. IQAC, Co-Coordinator w.e.f 2017-18 to 2022-23.

2. IT Committee and Purchase Committee

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

BIO DATA

Nationality: Indian Gender: Male

Date of Birth: 20/04/1982

Residential Address: Gurah Brahmna,

Patoli, PO- Muthi, Akhnoor Road,

Jammu-181205

Marital Status: Married

Languages: English, Hindi, Dogri,

Punjabi* (*: Partially)

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

Dr. Deep Kumar Bangotra