

## PRINCE RAJPOOT

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### EDUCATION

**S.B.M.I.C. Rath**

**Rath, U.P.**

**High School, UP Board**

Percentage- 73.50%

**P.V.M.I.C. Kanpur**

**Kanpur, U.P.**

**Intermediate, UP Board**

Percentage- 66.66%

**Motilal Lal Nehru National Institute of Technology**

**Allahabad, U.P.**

**Ph.D., CSE**

July 2016-present

MHRD Fellowship, Relevant Coursework and Research on “Optimization in Wireless Sensor Network”.

State-of-the-Art Status – Completed Successfully.

Comprehensive Exam Status – Completed Successfully.

CGPA in Course Work - 9.25/10

**Motilal Lal Nehru National Institute of Technology**

**Allahabad, U.P.**

**M. Tech, Information Security**

July 2012- June 2014

MHRD Fellowship, Relevant Coursework and Thesis on “Energy Efficient Data Aggregation in Wireless Sensor Network”.

CGPA 8.78/10

**GLAITM, Mathura (from UPTU)**

*Mathura, UP*

**B. Tech, Information Technology**

July 2008- June 2012

Percentage- 73.92%

### RESEARCH EXPERIENCE

**Motilal Lal Nehru National Institute of Technology**

**Allahabad, U.P.**

*Doctrate's Researcher*

July 2016 – Dec 2017

- Computation of energy model for clustering in Wireless Sensor Network (WSN).
- Simulation of system to predict energy consumption in data collection process.
- Analysis of MADM and MODM approaches for optimization in WSN.
- Conducted extensive data analysis via MatLab.

**Motilal Lal Nehru National Institute of Technology**

**Allahabad, U.P.**

*Master's Researcher*

July 2012- June 2014

- Computation of energy model for data aggregation using distance and minimum energy factor.
- Simulation of system to predict data aggregation process.
- Conducted extensive data analysis via MatLab.

### PROJECTS

**Motilal Lal Nehru National Institute of Technology**

**Allahabad, U.P.**

*Master's Researcher*

July 2012- June 2014

- Title: ONLINE MOVIES TICKET BOOKING  
Duration and Organization: 6 MONTHS, M.N.N.I.T.

Brief Description: ONLINE BOOKING OF MOVIES TICKETS.

**GLAITHM, Mathura**

*Undergraduate*

**Mathura, U.P.**

July 2008- June 2012

- Title: HOTEL MGMT  
Duration and Organization: 6 MONTHS, G.L.A.I.T.M.  
Brief Description: IT PERFORMS MANAGEMENT OF A HOTEL.
- Title: SOCIAL NETWORKING SITE  
Duration and Organization: 1 YEAR, G.L.A.I.T.M.  
Brief Description: A COLLEGE CIRCLE WEBSITE.

**HCLCDC**

*Summer Internship*

**(Indra nagar-Lucknow), U.P.**

June 2013- July 2013

- Developed a HCL Centre Management Software.

**TEACHING EXPERIENCE**

**Shri Ramswaroop Memorial University**

**Lucknow, U.P.**

**Assistant Professor**, Computer Science and Engineering Department

July 2014-july 2016

- Taught the courses like Data Communication and Networking, E-Commerce and M-Commerce, Network Security to graduate and postgraduate students.
- Took the Aptitude and Reasoning classes of Pre-final year.
- Supervised B. Tech project.
- Implemented Enterprise Resource Planning (ERP) System (PeopleSoft) for the university
- Assisted the various technical events during technical festival of university.

**REC Ambedkar Nagar**

**Akbarpur, U.P.**

**Assistant Professor**, Information Technology Department

Dec, 2017-presently working

- Taught the courses like Mobile Computing, DAA, DS to graduate students.

**Motilal Lal Nehru National Institute of Technology**

**Allahabad, U.P.**

*Master's Researcher*

July 2012-June 2014

- Supervised B. Tech labs for one year.

**SKILLS**

Computer Languages: C, JAVA, PHP, Visual Basic, C#, SQL and Racket.

Software Packages: Turbo C, .NET Framework, Oracle 10g, MATLAB, WAMP etc.

IDE & Tools: NetBeans, DB2, RFT etc.

Operating System Platform: Windows, Linux.

Language: Fluency in Hindi and English.

**ACHIEVEMENTS/AWARDS**

- NET/JRF (99.90 percentile), GATE Qualified (52 Marks).
- DB2 Certified (BY IBM).
- RFT Certified (BY IBM).
- Certificate of "Sanskriti Gyan Pariksha" (2 TIMES).

**Publications (Total 28 (9 International Journals (3-SCI INDEXED, 4-SCOPUS INDEXED), 19 International Conferences (13-SCOPUS INDEXED, 6-IEEE))**

**International Journal Papers:**

1. "Optimized and load balanced clustering for wireless sensor networks to increase the lifetime of WSN using MADM approaches." Wireless Networks: 1-37 (2018). (SCI INDEXED) <https://doi.org/10.1007/s11276-018-1812-2>
2. "Multiple parameter based energy balanced and optimized clustering for WSN to enhance the Lifetime using MADM Approaches", Wireless Personal Communications (2019). (SCI-E INDEXED) <https://doi.org/10.1007/s11277-019-06192-6>
3. "ESS-IBAA: Efficient, Short, and Secure ID-based Authentication Algorithm for Wireless Sensor Network", International Journal of Communication Systems. (SCI/SCIE Indexed- Accepted) <https://doi.org/10.1002/dac.4764>
4. "Lifetime Maximization of Heterogeneous WSN using Fuzzy-based Clustering", Recent Advances in Computer Science and Communications (2020) 13: 1. <https://doi.org/10.2174/2666255813999200824123409> (SCOPUS Indexed Journal)
5. "MADM based Optimal Nodes Deployment for WSN with Optimal Coverage and Connectivity", IOP Conference Series: Materials Science and Engineering vol. 1020 (2021) pp: 012003. (SCOPUS Indexed Journal) doi:10.1088/1757-899X/1020/1/012003
6. "Fuzzy based hierarchical optimized approach with connectivity in WSN using multiple conflicting factors for application in the supervision of pipeline", Journal of Physics: Conference series. (SCOPUS Indexed Journal) doi:10.1088/1742-6596/1831/1/012014
7. "Optimal Tiring with Base Station Position for Wireless Sensor Network", ISSN: 0193-4120 Page No. 7593 – 7602 (TEST Engineering and management) (SCOPUS Indexed Journal)
8. "FLASH BLOCK AWARE PAGE REPLACEMENT ALGORITHM FOR NAND FLASH MEMORY", International Journal of Research and Analytical Reviews (IJRAR) Volume 6 Issue 2 May 2019 (2019). (UGC Approved, E-ISSN: 2348-1269)
9. "A STUDY ON VANET AND ITS SECURITY ISSUES", International Journal of Recent Scientific Research (IJRSFP), Vol. 10, Issue, 06(I), pp. 33298-33303, June, 2019. DOI: <http://dx.doi.org/10.24327/ijrsr.2019.1006.3646>.

**International Conference Proceedings:**

1. "Matrix Method for Non-Dominated Sorting and Population Selection for Next Generation in Multi-Objective Problem Solution", Proceedings of IEEE 8<sup>th</sup> International Conference CONFLUENCE' 2018 (SCOPUS INDEXED). DOI: [10.1109/CONFLUENCE.2018.8442879](https://doi.org/10.1109/CONFLUENCE.2018.8442879)
2. "Multi-Factor Based Energy Efficient Algorithm for Clustering and Routing in WSN", Proceedings of SPRINGER 3<sup>rd</sup> International Conference SoCTA 2018 (SCOPUS INDEXED). [https://doi.org/10.1007/978-981-15-0751-9\\_53](https://doi.org/10.1007/978-981-15-0751-9_53)
3. "Energy Efficient Protocol to Supervise Over-ground Pipelines using WSN", Proceedings of 2018 3<sup>rd</sup> IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2018), pp 1818-1823. (IEEE) DOI: [10.1109/RTEICT42901.2018.9012422](https://doi.org/10.1109/RTEICT42901.2018.9012422)
4. "Partition Based Strategic Node Placement and Efficient Communication Method for WSN", Proceedings of 2018 3<sup>rd</sup> IEEE International Conference on Recent Trends in Electronics,

Information & Communication Technology (RTEICT 2018), pp 1807-1812. (IEEE)  
**DOI:** [10.1109/RTEICT42901.2018.9012336](https://doi.org/10.1109/RTEICT42901.2018.9012336)

5. "Optimized H-LEACH algorithm for clustering to improve lifetime of WSN", Proceedings of 2018 3<sup>rd</sup> IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2018), pp 2393-2398. (IEEE)  
**DOI:** [10.1109/RTEICT42901.2018.9012605](https://doi.org/10.1109/RTEICT42901.2018.9012605)
6. "Heterogeneous Clustering for Energy Optimization in Wireless Sensor Networks", 9<sup>th</sup> International Conference-Confluence-2019 (SCOPUS INDEXED).  
**DOI:** [10.1109/CONFLUENCE.2019.8776933](https://doi.org/10.1109/CONFLUENCE.2019.8776933)
7. "Multi-Objective Heterogeneous Clustering Approach for Efficient-Energy Optimization in WSN", 9<sup>th</sup> International Conference-CONFLUENCE' 2019 (SCOPUS INDEXED).  
**DOI:** [10.1109/CONFLUENCE.2019.8776965](https://doi.org/10.1109/CONFLUENCE.2019.8776965)
8. "Multi Parameters Based Heterogeneous Clustering Algorithm for Energy Optimization in WSN", 9<sup>th</sup> International Conference-CONFLUENCE' 2019 (SCOPUS INDEXED).  
**DOI:** [10.1109/CONFLUENCE.2019.8776966](https://doi.org/10.1109/CONFLUENCE.2019.8776966)
9. "Implementation and Analysis of 7T SRAM at Different Design Technologies", 2nd IEEE International Conference on Intelligent Sustainable Systems [ICISS 2019] (SCOPUS INDEXED).  
**DOI:** [10.1109/ISS1.2019.8908072](https://doi.org/10.1109/ISS1.2019.8908072)
10. "Mean Threshold Shortest Job Round Robin CPU Scheduling Algorithm", 2nd IEEE International Conference on Intelligent Sustainable Systems [ICISS 2019] (SCOPUS INDEXED).  
**DOI:** [10.1109/ISS1.2019.8908071](https://doi.org/10.1109/ISS1.2019.8908071)
11. "An enhanced approach for energy optimization using protocol based on multi factors", 3rd IEEE Technically Sponsored International Conference on Computing Methodologies and Communication (ICCMC 2019) (SCOPUS INDEXED).  
**DOI:** [10.1109/ICCMC.2019.8819652](https://doi.org/10.1109/ICCMC.2019.8819652)
12. "A Survey on Fundamental of Wireless Sensor Network with Various Issues in Optimization", 3rd IEEE Technically Sponsored International Conference on Computing Methodologies and Communication (ICCMC 2019) (SCOPUS INDEXED).  
**DOI:** [10.1109/ICCMC.2019.8819833](https://doi.org/10.1109/ICCMC.2019.8819833)
13. "Load Balanced Clustering protocol for lifetime enhancement of WSN", 3rd IEEE Technically Sponsored International Conference on Computing Methodologies and Communication (ICCMC 2019) (SCOPUS INDEXED). **DOI:** [10.1109/ICCMC.2019.8819854](https://doi.org/10.1109/ICCMC.2019.8819854)
14. "Power Optimization Algorithm for Heterogeneous WSN using Multiple Attributes", 3rd IEEE Technically Sponsored International Conference on Computing Methodologies and Communication (ICCMC 2019) (SCOPUS INDEXED).  
**DOI:** [10.1109/ICCMC.2019.8819705](https://doi.org/10.1109/ICCMC.2019.8819705)
15. "Fuzzy based Technique for Nodes Coverage with Load Balancing Data collection using Multiple Conflicting Factors", Proceedings of the Fourth International Conference on Communication and Electronics Systems (ICCES 2019) IEEE Conference Record # 45898; IEEE Xplore ISBN: 978-1-7281-1261-9, pp: 578-583 (SCOPUS INDEXED).  
**DOI:** [10.1109/ICCES45898.2019.9002069](https://doi.org/10.1109/ICCES45898.2019.9002069)
16. "Power Balanced Efficient Clustering Algorithm for WSN", Proceedings of the Fourth International Conference on Communication and Electronics Systems (ICCES 2019) IEEE Conference Record # 45898; IEEE Xplore ISBN: 978-1-7281-1261-9, pp: 584-588 (SCOPUS INDEXED). **DOI:** [10.1109/ICCES45898.2019.9002109](https://doi.org/10.1109/ICCES45898.2019.9002109)
17. "Relative Distance Based Fuzzy Clustering Approach for Wireless Sensor Networks". Second International Conference on Advances in Electrical, Electronic and System Engineering, 2019, IEEE. (In press)

18. "Energy Distribution based Cluster Head Selection to Enhance the Lifetime of WSN". Second International Conference on Advances in Electrical, Electronic and System Engineering, 2019, IEEE. (In press)
19. "Optimization of Data Collection process in Heterogeneous WSN using Fuzzy and Multi-Attribute based Load Balancing Approach". Second International Conference on Advances in Electrical, Electronic and System Engineering, 2019, IEEE. (In press)
20. A Comparative Study of Heuristics and Meta-heuristic Algorithms with Issues in WSN. In: Gunjan V.K., Zurada J.M. (eds) Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications. Advances in Intelligent Systems and Computing, vol 1245. Springer, Singapore. [https://doi.org/10.1007/978-981-15-7234-0\\_48](https://doi.org/10.1007/978-981-15-7234-0_48)

#### **Book Author**

1. "SOA Security Framework Design and Implementation", 978-620-0-27913-2 (LAMBERT-2019).

#### **Workshops and FDP (Organized)**

- a) Coordinator in a Four week Summer Training on "**Python, Android and WSN Optimization using MATLAB**", organized by Department of Information Technology, Rajkiya Engineering College Ambedkar Nagar, held during 17 june-13 july, 2019.
- b) Coordinator in a Two week workshop on "Ethical Hacking and Cyber Security", organized by Department of Information Technology, Rajkiya Engineering College Ambedkar Nagar, held during 06 june-15 june, 2019.
- c) Worked as a Coordinator in an "ICT course on Scilab Programming", organized by Department of Electrical Engineering & Department of Information Technology, Rajkiya Engineering College Ambedkar Nagar in collaboration with NITTTR Chandigarh, held during 14th May –18th May, 2018.
- d) Coordinator in an STC on "Next Generation Wireless Networks", organized by Department of Information Technology, Rajkiya Engineering College Ambedkar Nagar in collaboration with NITTTR Chandigarh, held during 29 april-3may 2019.
- e) Coordinator in one day workshop on "Machine Learning using Python", organized by Department of Information Technology, Rajkiya Engineering College Ambedkar Nagar in collaboration with Softpro Pvt. Ltd., held during 29 April, 2019.
- f) Worked as a Secretary in "Laboratory and Workshop Management Issues" organized by Rajkiya Engineering College Ambedkar Nagar in collaboration with NITTTR Kolkata, held during 9th April –13th April, 2018.
- g) Worked as an Organizing Secretary in a One-week National Workshop On "EVOLVING DRIFTS IN COMPUTER SCIENCE" (NWEDCS-2018), organized by Department of Information Technology, Rajkiya Engineering College Ambedkar Nagar, held during 9th -13th July, 2018.
- h) Worked as an Organizing Secretary in a One-week National Workshop On "Image Processing Computer Vision & Application" (IPVCA-2019), organized by Department of Information Technology, Rajkiya Engineering College Ambedkar Nagar, held during 05th - 9th March, 2019.
- i) Worked as an organizing member in One-week National Workshop on "MATLAB & Its Application", Jan 28 – Feb 01, 2019 organized by Department of Electrical Engineering at Rajkiya Engineering College Ambedkar Nagar.

- j) Worked as a student coordinator in a self-financed summer training program on “Enhancing Skill for Enterprise Scale Application Development ((ES)2AD)”, organized by CSED MNNIT Allahabad, held during 9th June–6th July, 2017.
- k) Worked as a student coordinator in a self-financed workshop “Machine Learning and its application (MLA-2017)” organized at MNNIT Allahabad, July 10-14, 2017.

#### **Workshops and FDP (Attended)**

- a) Participated in the 5-day online Faculty Development Programme on “Leadership: An Essential Employability Skill for the 21st Century” organized by Department of Applied Sciences and Humanities, Rajkiya Engineering College, Mainpuri, India, from Sep 6-10, 2021.
- b) One month internship on “Raspberry Pi” organized by Pantech Prolab India Pvt Ltd, (10/04/2021-10/05/2021)
- c) One month internship on “AI master class using python” organized by Pantech Prolab India Pvt Ltd, (16/02/2021-17/03/2021)
- d) One week TEQIP III sponsored E -Training Program/Short - term course on “Internet of Things” in the Centre for Advanced Electronics from 07 December 2020 to 11 December 2020 at IIT Indore.
- e) One Week Online Faculty Development Program (FDP) On “Maximal Utilization of ICT Tools for Online Teaching-Learning Process” (Theme: Facing COVID-19 Challenge as Teachers), Organized by Department of Applied Science and Humanities, Rajkiya Engineering College, Ambedkar Nagar in Association with J. C. Bose University of Science & Technology, YMCA, Faridabad, Haryana (09-13 May, 2020)
- f) One week “Productivity Enhancement program (PEP)”, held under TEQIP-III at Rajkiya Engineering College Ambedkar Nagar from 17/12/2019 to 22/12/2019.
- g) Two week national workshop on “Ethical Hacking and Cyber Security”, organized by Department of Information Technology, Rajkiya Engineering College Ambedkar Nagar, held during 06 June-15 June, 2019.
- h) One-week STC on “Next Generation Wireless Networks”, organized by Department of Information Technology, Rajkiya Engineering College Ambedkar Nagar in collaboration with NITTTR Chandigarh, held during 29 April-3 May 2019.
- i) One-week National Workshop on “Essentials of Teaching-Learning Process and Research Methodology”, Feb 04 – Feb 08, 2019 in Engineering organized by Department of Electrical Engineering at Rajkiya Engineering College Ambedkar Nagar.
- j) One-week National Workshop on “MATLAB & Its Application”, Jan 28 – Feb 01, 2019 in Engineering organized by Department of Electrical Engineering at Rajkiya Engineering College Ambedkar Nagar.
- k) One-week National Workshop on “EVOLVING DRIFTS IN COMPUTER SCIENCE” (NWEDCS-2018), organized by Department of Information Technology, Rajkiya Engineering College Ambedkar Nagar, held during 9th -13th July, 2018
- l) One-week National Workshop on “Active Learning, Academic Governance and R&D”, June 25 – June 29, 2018 organized by IIT Roorkee.
- m) One-week STC on “ICT course on Scilab Programming”, organized by Department of Electrical Engineering & Department of Information Technology, Rajkiya Engineering College Ambedkar Nagar in collaboration with NITTTR Chandigarh, held during 14th May –18th May, 2018.
- n) One-week STC on “Laboratory and Workshop Management Issues” organized by Rajkiya Engineering College Ambedkar Nagar in collaboration with NITTTR Kolkata, held during 9th April–13th April, 2018.
- o) “Advanced Engineering Optimization through Intelligent Techniques” organized by SVNIT, SURAT, Feb 6-10, 2017.
- p) “Network Simulation (WNS-2016)” organized by MNNIT Allahabad, 28/9-2/10, 2016.

q) “FDP-2015” organized by SRMU Lucknow, July 6-11, 2015.

**As a reviewer**

1. review of the manuscript, "WSHO: Energy and trust aware protocol using Whale Spotted Hyena Optimization algorithm in IoT integrated WSN," for Ad Hoc & Sensor Wireless Networks 2021
2. Review of Manuscript ID WIRE-D-20-01782 entitled A Survey on WSN Issues with its Heuristics and Meta-Heuristics Solutions for Wireless Personal Communications 31 march 2021
3. Review of Manuscript ID WIRE-D-20-01799R1 entitled Intelligent Physical Layer Secure Relay Selection for Wireless Cooperative Networks with Multiple Eavesdroppers for Wireless Personal Communications 17 Feb 2021
4. review of the manuscript ID JIT-2021-0280 entitled RCECG : Regional Clustering Routing Algorithm Based on Energy Center of Gravity in Wireless Sensor Network for Journal of Internet Technology 12-Aug-2021
5. Review of Manuscript ID JIT-2021-0280 entitled "RCECG : Regional Clustering Routing Algorithm Based on Energy Center of Gravity in Wireless Sensor Network" for the Journal of Internet Technology- 2020
6. Review of Manuscript ID WIRE-D-20-01799 entitled Intelligent Physical Layer Secure Relay Selection for Wireless Cooperative Networks with Multiple Eavesdroppers for Wireless Personal Communications 11 Nov 2020
7. review of the manuscript ID SUPE-D-19-01080 entitled OFFM-ANFIS Analysis for Flood prediction using mobile IoS, Fog and Cloud Computing for The Journal of Supercomputing Mar 6, 2020
8. Review a paper entitled “Unified Framework for Deep Learning based Text Classification” for iccaeee 2019
9. Review of Manuscript ID WIRE-D-18-00458R1 entitled MSoC: Multi-Scale Optimized Clustering for Energy Preservation in Wireless Sensor Network for Wireless Personal Communications 03 Jan 2019
10. Review of Manuscript ID WIRE-D-18-00458 entitled MSoC: Multi-Scale Optimized Clustering for Energy Preservation in Wireless Sensor Network for Wireless Personal Communications 28 Apr 2018
11. Review of the manuscript ID SUPE-D-21-01207 entitled Dynamic and Scalable Multi-Level Trust Management Model for Social Internet of Things for The Journal of Supercomputing Sep 15, 2021

S.No.	Year	Journal of Supercomputing	Wireless Personal Communications	iccae	Ad Hoc & Sensor Wireless Networks	Journal of Internet Technology	Total reviews in year
1.	2018		1				1
2	2019		1	1			2
3	2020	1	1			1	3
4	2021	1	2		1	1	5
Total Review papers							11

**Review Summary table**

**EXTRA-CURRICULAR ACTIVITIES**

- “Parivartan” committee’s member.
- CSI member.
- Warden
- Former Chairman of Council of Student Activities

- Former Guest House Incharge
- Member of anti ragging committee
- Member of SC/ST Committee
- Member of Student Grievance Redressal Committee
- Departmental UG coordinator
- Departmental TEQIP-III coordinator

#### PERSONAL DETAILS

<b>Nationality</b>	Indian	<b>Place of Birth</b>	Rath (U. P.)
<b>Date of Birth</b>	20-jul-1990	<b>Gender</b>	Male
<b>Father's Name</b>	Mr. Jay Prakash Rajpoot	<b>Mother's Name</b>	Mrs. Sushma Rajpoot
<b>Permanent Address</b>	Atrollia, Rath (Hamirpur) U.P. Pin-210431	<b>Permanent Contact No.</b>	9670902128