

CURRICULUM VITAE



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Areas of Research: Cloud Computing & Mobile Networks

Academic Qualifications:

Sr. No.	Degrees	Subjects	Year	Board/University
1.	Matriculation (10th)	Math, Science, Soci. Sci, Languages(Eng,Pun, Hindi)	2000	Punjab School Education Board, Mohali
2.	Sen. Sec. (10+2)	Math, Economics, Phy.Edu.	2002	Punjab School Education Board, Mohali
3.	Graduation	Economics Phy.Edu. Pun (Elective)	2005	Punjab University, Chandigarh
4.	P.G.D.C.A.	Computer Sciences	2006	Punjab University, Chandigarh
5.	M. C. A.	Computer Sciences	2009	Punjabi University, Patiala, Punjab
6.	M. Tech.	Computer Science and Engineering	2017	Punjabi University, Patiala, Punjab

Research Degree:

Sr. No	Degree	Title	Date of Registration	University
1.	Ph. D. (Pursuing)	IMPROVED SWARM INTELLIGENCE BASED ARCHITECTURE FOR VIRTUAL MACHINE ALLOCATION AND MIGRATION IN CLOUD COMPUTING	30-09-2021	SRI GURU GRANTH SAHIB WORLD UNIVERSITY, FATEHGARH SAHIB (PUNJAB)

Details of Experience: (Total Experience: 12 Years & 03 Months Approx.)

Sr. No	Name of the Institute/Employer	Position held	Period	Duration	Major Job responsibilities
1.	T, P.D Malwa College, Rampura Phul (PB)	Lecturer (Contract)	22/11/2009 To 10/05/2010	5 Months & 18 Days	•Teaching
		Lecturer (Contract)	23/07/2010 To 07/05/2011	8 months & 15 Days	
		Lecturer (Contract)	05/08/2011 To 21/12 2011	4 Months & 16 Days	
2.	Punjabi University Regional Centre for IT and Management, Mohali (PB)	Assistant Professor	22 Dec 2011 Till Date	11 Years & 4 Months	•Teaching & Research •Member of various academic & Administrative Committees of the Department.

Subjects Taught at Undergraduate and Postgraduate Levels:

- Python Programming
- R Programming
- Artificial Intelligence
- Digital Image Processing
- Object Oriented Programmings (C++, Java, ASP.NET)
- Operating Systems
- System Software
- Software Engineering

Technical Proficiency:

- Programming Languages: (**Python, R, C/C++, Java, ASP.NET, Visual Basic**)

Research Publications: (International & National Journals: 15)

1. Singh, Rachhpal, and Sarpreet Singh. "A Study of Virtual Machine Allocation and Migration Techniques in Cloud Computing". *Design Engineering*, Nov. (2021): 17339 - 17352,
2. Kaur, Balwinder, Navjot Kaur, and Rachhpal Singh. "A Study of Energy Saving Techniques in Green Cloud Computing." *Advances in Computational Sciences and Technology* 10.5 (2017): 1191-1197.
3. Kaur, Navjit, and Rachhpal Singh. "A Survey for Task Scheduling in Cloud Computing." *International Journal of Computational Intelligence Research* 13.8 (2017): 2151-2159.
4. Kaur, Balwinder, and Rachhpal Singh. "A Comparison and Analysis of Load Balancing Algorithms in Cloud Computing." *Advances in Computational Sciences and Technology* 9.1 (2016): 51-59.
5. Singh, Jaspreet, and Rachhpal Singh, and Balwinder Kaur. "An Implementation of Room Persistence Library In Android Local Database". *Journal of Interdisciplinary Cycle Research* 12.9 (2020): 1797-1801
6. Singh, Abinasi, and Rachhpal Singh. "An image filter for noise reduction in low light images using Recurrent Neural Network". *Journal of Interdisciplinary Cycle Research* 12.9 (2020): 1637-1642
7. Singh, Jaspreet, and Rachhpal Singh. "Room Persistence Library Implementation In Android". *International Research Journal Of Science Engineering And Technology* 10.2 (2020): 155-159
8. Singh, Abinasi, and Rachhpal Singh. "A Survey for Various Techniques of Image Enhancement". *International Journal of Computer Sciences and Engineering* 8.7 (2020): 166-169
9. Kaur, Ramandeep, and Rachhpal Singh. "Multicasting Scheme For Path Establishment In Vehicular Ad Hoc Networks". *International Journal of Technical Innovation in Modern Engineering & Science* 4.9 (2018): 846-850
10. Kaur, Ramandeep, and Rachhpal Singh. "Analysis of Routing Protocols of VANETs". *International Journal of Creative Research Thoughts* 6.2 (2018): 357-361
11. Deepika, and Rachhpal Singh. "Novel Approach For Face Spoof Detection In Image Processing". *International Journal of Technical Innovation in Modern Engineering & Science* 4.9 (2018): 657-661
12. Deepika, and Rachhpal Singh. "Analysis of Face Detection Techniques". *International Journal of Creative Research Thoughts* 6.2 (2018): 896-900
13. Kaur, Sukhman, and Rachhpal Singh. "Load Balancing during Task Scheduling in Cloud Computing". *Journal of Emerging Technologies and Innovative Research* 5.9 (2018): 722-726
14. Kaur, Sukhman, and Rachhpal Singh. "Efficient Task Scheduling in Cloud Computing". *Journal of Emerging Technologies and Innovative Research* 5.8 (2018): 345-350

15. Kaur, Navjit, and Rachhpal Singh. "Minimizing Response Time in Cloud Computing Based upon Optimized Fuzzy Based Artificial Neural Network". *International Journal Of Research In Electronics And Computer Engineering* 5.3 (2017): 465-469

Paper Presented in National/International Conferences: (06)

1. Presented Paper on "Cuckoo Search: State of Art and its Application" in the International E-Conference on Scientific Research in Multidisciplinary Approach (ICSRMA)" held on 13th and 14th July 2022 organized by SRM Arts and Science College, University of Madras.
2. Presented Paper on "Globalization: Its Impact on Technical Education and Culture In India" in One Day National Conference (22nd August 2015) on "Skill Development in Higher Education "held at A.S. College Khanna in Collaboration with Punjab Commerce and Management Association.
3. Participated in Three-Days International National Conference on "Information Systems for Indian Languages(ICISIL2011)" held from 9th to 11th March 2011 at the Department of Computer Science, Punjabi University, Patiala, India.
4. Presented Paper on "Impact of Industrialization on Society & Human Values" in Two days National Conference (11th -12th August 2015) on "Human Values in Professional Education (HVPE'15)" held at Department of Applied Sciences, Swami Vivekanand Institute of Engineering & Technology, Banur.
5. Presented Paper on "Role of Women in Hindu and Sikh Religion" in three days 3rd South Asian History Conference (16th -18th October 2015) held at Department of History, Punjabi University Patiala .
6. Presented Paper on "Role of Technology: Improving Women Economically 7th International Conference on Empowering Women, Empowering Humanity Organized by the Women study Centre, Punjabi University, Patiala.

Professional Development Activities:(Participation in Workshop/Training: 16)

Participation in Workshop/Training:

1. Online Refresher Course in "Cyber Security (ID)" From 08 August to 22 August 2022 Organized by HRDC, the University of Mumbai sponsored by UGC.
2. Online Refresher Course of Two Weeks on "Internet of Things- A Project Based Learning using Virtual IoT Lab" Organized jointly by National Institute of Technical Teachers Training & Research Chandigarh and Xtrans Solutions Pvt. Ltd., Bangalore from 08th to 19th July 2020.
3. Online AICTE Recognized Faculty Development Programme on "Applications of IoT (One Week)" Organized by Computer Science and Engineering Department NITTTR, Chandigarh from 16/06/2020 to 20/06/2020.
4. Two Days Online Capacity Building Program on "Basic Tools and Techniques for Online Teaching" organized through the website <https://join.freeconferencecall.com/daapup> 25 July to 26th July 2020 from 11:00 AM to 4:00 PM daily

5. 19th Orientation Programme Organized by Academic Staff College, Punjabi University, Patiala from 11 February 2014 to 09 March 2014 sponsored by UGC.
6. Short Term Training Program on “Development of Latest Instructional Media Using Page Maker Adobe Photoshop, Adobe After Effect, and Adobe Premier” from 04 May 2015 to 08 May 2015 (One Week) organized by ETV Centre NITTTR, Chandigarh.
7. Two Days Online Capacity Building Program on “Basic Tools and Techniques for Online Teaching” from 25 July to 26th July 2020 from 11:00 to 4:00 PM Organized by Centre for E-Learning and Teaching Excellence (CELTE), Punjabi University, Patiala.
8. “Research in Higher Education in the Perspective of NEP 2020” on 29-05-2021 from 11:00 AM to 01:00 PM Organized by Centre for E-Learning and Teaching Excellence (CELTE), Punjabi University, Patiala.
9. Participated in National One Week Faculty Development Programme on “ICT Tools for Effective Teaching and Learning” held from 23rd to 28th May 2022, organized by the Amar Sewa Mandal’s Kamla Nehru Mahavidyalaya, Nagpur, India.
10. “Effective introduction journal writing” on 18/02/2022 Organized by Internal Quality Assurance Cell (IQAC) in Collaboration with London Business University, Singapore held on 18th February 2022.
11. Participated in Six Days Faculty Development Programme on “Enhancing the Research Papers and Usage of Research Tools” held from 6th to 11th March 2023, organized by the Department of Computer Science and Applications, Periyar Maniammai Institute of Science and Technology, India.
12. “Writing Effective and Quality Research Papers, How to Publish in Scopus, SCI Listed and Reputed Journals?” on 25 - 29, January 2022 organized by the Department of Industrial & Production Engineering, Guru Ghasidas Vishwavidyala (A Central University) Bilaspur (C.G).
13. “Systematic Approach for Writing Research Papers: Indexing and Citations” on 9 February 2022 organized by the Department of Computer Science & Engineering, Baba Banda Singh Bahadur, Engineering College, Fatehgarh Sahib (Pb)
14. Short Term Training Program on “Cloud Computing” from 27/05/2019 to 31/05/2019 organized by the Department of Computer Science, NITTTR, Chandigarh.
15. Participated in Online an Expert Talk on “Post Covid Mental and Emotional Health” held on 4th March 2022, organized by the Gujranwala Guru Nanak Institute of Management and Technology, Ludhiana, Punjab, India.
16. 3-Weeks Refresher Course on “Environment and Disaster Management (ID)” from 26/11/2018 to 15/12/2018 organized by HRDC, Himachal Pradesh University, Shimla, sponsored by UGC.

Administrative and Academic Affiliations:

1. Nodal Officer for Post Metric Scholarship Scheme (SC/SC)
2. Nodal Officer for AISHE (All India Survey of Higher Education)

3. Member of the International Association of Engineers (IAENG) Membership No. 291654.
4. Member Board of studies for various Postgraduate and undergraduate courses
5. Coordinator of Placement Cell and Student Counselor committee
6. Member of other various departmental committees such as ACD Committee, Website Management, MST in charge, Examination Panel Committee, Discipline Committee, etc. from time to time

M. Tech. Thesis Guidance/Under guidance: (Completed: 06)

1. Abinasi Singh, 2020, An Improved Image Filter for Noise Reduction in Low Light Images Using Recurrent Neural Network
2. Jaspreet Singh, 2020. An Implementation of Room Persistence Library in Android Local Database
3. Sukhman Kaur, 2018, Designing an Enhanced Scheduling Algorithm to Improve Task Scheduling in Cloud Computing
4. Ramandeep Kaur, 2018, Enhancing Ad-Hoc On-Demand Vector and Dynamic Source Routing with Route Life Time Strategy for Efficient Routing in Vanets
5. Deepika, 2018, Enhancing Face Spoof Detection Using K Nearest Neighbor Classification Techniques
6. Navjit Kaur, 2017, Minimizing Response Time in Cloud Computing Based upon Optimized Fuzzy Based Artificial Neural Network

Award Received & Patent:

- Indo-Thai Academic Award 2019 (Best Educators) "2nd International award conference on Review, Research and Evaluate on 21 September 2019" Organized by the International Association Research and Developed Organization.
- 5G Industrial IoT enabled Cloud Manufacturing Security Service Architecture based on Fog Computing and Blockchain, Intellectual Property India, Application Number- 202211031970

DATE

RACHHPAL SINGH