

Balvir Singh Thakur

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Biography

Balvir Singh Thakur is working as Assistant Professor in the Department of Computer Science & Engineering at University Institute of Technology, Himachal Pradesh University Shimla. He has completed his Ph.D. in Computer Science from Himachal Pradesh University Prior to his foray into academia, he worked in IT industry for three year performing different roles in software development and program management. In academics, he has gained extensive experience in teaching, research, and academic administration over the past two decade. In all, he has more than 23 years of rich experience in academics and IT industry. His research interests include data structures, DBMS, data analytics, data quality, HPC, AI, and MANET& its security.

Work Experience Summary

✚ Academics

- Around 21 years of rich experience in teaching undergraduate (B.Tech/BCA) and post-graduate(M.Tech/M.Sc/MCA) students.
- Good understanding of academic administration.
- Delivered more than 50 invited lectures

✚ IT Industry

- Around 03 years of proven experience at Regional Computer Centre Chandigarh (Now NIELIT) analysis, design, development and installation of Windowsbased applications.
- Wide exposure in HPC and Mobile Ad Hoc Network(MANET)
- Profound understanding of theoretical and realistic aspects of C, C++, Fortran, C#, Python and Core Java.

✚ Administrative Experience

- Coordinator of Computer Courses (BCA/MCA/PGDCA) of International Centre for Distance Education & Open Learning (ICDEOL), HPU (13-09-2017 to 27-04-2021)
- Coordinated a Refresher Course (RC325) on ICT at UGC-HRDC, HPU 01-02-2021 to 13-02-2021
- Warden of Himachal Pradesh University Boys Hostel (12-11-2018 to 16-11-2021)
- NTA Observer for NEET/UGC-NET/CSIR-NET and various Jobs exam through NTA since 2019
- Centre superintendent for various semester end examinations and Entrance examinations of HPU.
- Subject Expert for the inspection of colleges affiliated with HPU.
- Member of HPU flying squad
- Handling AICTE web portal related work since Year 2012 (Approvals/scholarships)
- Member of Board of studies of B.Tech, M.Tech and Ph.D in Computer Science Engineering, Information Technology, Electrical Engineering, Electronics and Communication Engineering and Civil Engineering.
- Member of Board of Studies of M.Sc. (AI & Data Science) and 'B' level program of National Institute of Electronics and Information Technology(NIELIT)
- Member of academic team of Central University of Himachal, HP Technical University, and SPU Mandi.
- Reviewer/ Task Panel Member/Editorial Board Member, National/ International Journals/Consortiums/Associations.
- Session Chaired in International conferences
- Member of Technical Staff Evaluation committee of Agricultural Scientists Recruitment Board(Directorate of Mushroom Research(DMR) Chambaghat, Solan).

Technical Skills

- ✓ **Languages:** C, C++, C#, Core Java, Python.
- ✓ **Operating Systems:** Windows, Ubuntu.

Teaching and Research Interests

Teaching Interests

- Data Structures & Algorithms
- Computer System Architecture
- Parallel Computing/HPC
- DBMS
- Operating System
- Software Engineering

Research Guidance

- Guided 4 M.Tech. Students
- One Ph.D. Student under supervision
- Research Project entitled "*Viability of Parallel and Distributed Models of Programming and Computation for Teaching, Learning, and Workforce Development*" sanctioned on 26-05-2025 by HPU for duration of one year.

Conferences/Workshops Organized: 08

Conferences/Workshops/FDPs Attended: 38

Publications National/International: 17
