

Dr. Ritu Sharma

Assistant Professor

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Passionate and proactive academician having 20+ years of teaching experience at Post-Graduate and Under-Graduate levels, with the objective to:

- provide cutting-edge research guidance with sound methods while ensuring high ethical standards and commitment
- inspire learners to work diligently, be innovative in their ideas and discover their abilities and talent
- instill human values in them
- prepare them for a successful future

PROFESSIONAL QUALIFICATIONS

- 2012 Doctor of Philosophy (Ph.D) in Computer Science, Himachal Pradesh University, Shimla.
- 2000 Master of Computer Applications (MCA), Indira Gandhi National Open University (IGNOU), New Delhi.
- 1984 Bachelor of Science (Hons), University of Delhi.

AREAS OF INTEREST

Cloud Computing, Software Engineering, Machine Learning, Big Data

ACADEMIC EXPERIENCE

Nov 2000 – Present	University College of Business Studies (UCBS), H.P. University, Shimla
Mar 2013 – Dec 2020	Department of Computer Science, H.P. University, Shimla
Aug 2012 – June 2015	University Institute of Information Technology (UIIT), H.P. University, Shimla
Apr 2003 – 05	Department of Commerce, H.P. University, Shimla
Oct 2002 – Jun 2005	University Institute of Information Technology (UIIT), H.P. University, Shimla
Aug 2002 – Jun 2004	IGNOU, Regional Centre, Shimla

ADMINISTRATIVE RESPONSIBILITIES

Mar 2021 – Present	Member, Experts Committee, Internal Quality Assurance Cell (IQAC), H.P. University, Shimla
Aug 2002 – June 2004	Coordinator, ADIT/BIT Programmes, IGNOU, Regional Centre, Shimla from 2002 to 2004

INVITED TALKS/SPECIAL LECTURES

- Resource Person for various Refresher Courses at Academic Staff College (ASC), H.P. University, Shimla
- Delivered Lecture on “Project Development” at St. Bede’s College, Shimla on September 23, 2014
- Visiting Faculty for PGDCA and BCA Programmes of International Centre for Distance Education and Open Learning (ICDEOL), H.P. University, Shimla

RESEARCH CONTRIBUTIONS

- Ritu Sharma and Manu Sood. “A Model Driven Approach to Cloud SaaS Interoperability”. *International Journal of Computer Applications* (0975 – 8887) Volusme 30 – No.8, September 2011.
- Ritu Sharma and Manu Sood. “Enhancing Cloud SaaS Development with Model Driven Architecture”. *International Journal on Cloud Computing: Services and Architecture* (IJCCSA). Vol.1, No.3, November 2011. DOI: 10.5121/ijccsa.2011.1307.
- Ritu Sharma and Manu Sood, "Modeling Cloud Software-As-A-Service: A Perspective," *International Journal of Information and Electronics Engineering* (IJIEE) Vol. 2, No. 2, pp. 238-242, 2012 IJIEE. ISSN: 2010-3719
- Ritu Sharma and Manu Sood. “Cloud SaaS and Model Driven Architecture”. *International Conference on Advanced Computing and Communication Technologies (ACCT11)*, pp. 18-22, ISBN: 978-981-08-7932-7 (2011)
- Ritu Sharma and Manu Sood. 2011. “Modeling Cloud Software-as-a-Service: A Perspective”. In *Proceedings of International Conference on Network Communication and Computer (ICNCC 2011)*, 170–174. ISBN: 978-1-4244-9550-4
- Ritu Sharma, Manu Sood and Divya Sharma. 2011. “Modeling Cloud SaaS with SOA and MDA”. In *Proceedings of International Conference on Advances in Computing and Communications (ACC 2011)*. Communications in Computer and Information Science (Springer-Verlag), 2011, Volume 190, Part 5, 511-518, DOI: 10.1007/978-3-642-22709-7_50
- Ritu Sharma and Manu Sood, 2011. “Cloud SaaS: Models and Transformation”. In *Proceedings of First International Conference on Computer Science, Engineering*

and *Information Technology (CCSEIT-2011)*. Communications in Computer and Information Science (Springer-Verlag), 2011, Volume 205, 305-314.

BOOK CHAPTER

Authored Book Chapter, **INDEXED in SCOPUS and INSPEC**, titled “Mitigating Technology Obsolescence in Cloud Software Services – A Model-Driven Approach” published in *Handbook of Research on Architectural Trends in Service-Driven Computing* edited by Raja Ramanathan Independent Researcher, USA) and Kirtana Raja (IBM, USA). This book is published in the IGI Global book series Advances in Systems Analysis, Software Engineering, and High Performance Computing (ASASEHPC) (ISSN: 2327-3453; eISSN: 2327-3461).

INTERNATIONAL CONFERENCE CHAIRED

Chaired Session in “International Conference on Recent Innovation in Computer Science and Information Technology” held on 19th May 2017 at H.P. University, Shimla.

SEMINARS/WORKSHOPS

Presented Seminar Paper titled “COMPUTING IN THE CLOUDS”, at NAAC Sponsored National Seminar on Institutional Quality Improvement: Role of ICT, organized by St. Bede’s College, Shimla on November 14-15, 2014.

Presented Seminar Paper titled “SERVICE ORIENTED ARCHITECTURE – A PERSPECTIVE”, at National Seminar on Web-based Technologies: Present and Future, organized by St. Bede’s College, Shimla on April 30 – May 1, 2015.

Participated in DeITY sponsored One-day Workshop on ‘INTELLECTUAL PROPERTY RIGHTS’ at NIELIT Chandigarh, Extension Centre Shimla on 22-02-2014.

FACULTY DEVELOPMENT ACTIVITIES

Participated in Two-day FDP on “Trends and Application in Machine Learning and Deep Learning”, held on September 04-05, 2020, organized by RTU, Kota & Poornima Engineering College, Jaipur

Participated in TEQIP-III Online STC on “Applications of Machine Learning in the Advancements of Computer Science, held from August 17 to August 22, 2020, organized by Department of Computer Science & Engineering, NIT, Jalandhar, Punjab, India.