

Aryabhata College

Department of Computer Science

(Annual Report for the Academic session 2018 to 2019)

- 1) Name of Teacher in Charge: Dr. Priti Jagwani
- 2) Brief details of Faculty members

Dr. Priti Jagwani , Assistant Professor

Dr. Priti Jagwani is an alumni of IIT Delhi. She has received her MTech and Ph.D. from IIT Delhi. Currently she is serving as assistant professor in dept. of computer science, Aryabhata College, University of Delhi. She has served the academia for more than 15 years. She has published many papers with Springer, IEEE and Inderscience publishers. She is also working as a reviewer for many conferences of repute and presented her research papers in international conferences at Japan and China. She is the recipient of prestigious Top 50 Women in Education Leaders award (2019) by World Education Congress. She has been associated with National Council for Promotion of Sindhi Language (NCP SL) as Computer Expert. Under this initiative she has delivered many talks for enrichment of Sindhi Language. She has also delivered more than 100 lectures for CEC through VYAS channel since 2019.

Dr. Ranjan Kumar, Assistant Professor

Dr Ranjan Kumar is Assistant Professor at Department of computer science since September 2005. He did his MCA from Department of Computer Science, University of Delhi and Ph.D. from M.U., Bodhgaya. He has worked as Teacher-in-charge in Computer Science Department from 2005 to 2015. His area of interest are Theory of Computation, Data Science, Machine Learning, and Database. He has presented many papers in various National and International conferences. He has also published many research papers in reputed journals. He has also contributed as convener or member in various committees of the college such as Building Committee, PF Committee, Workload Committee, Website Committee, Academic Planning Committee, Research Publication and Extension Committee, etc.

Dr. Sonal Linda, Assistant Professor

Dr. Sonal Linda is Assistant Professor at Department of computer science since October 2015. She served as TIC, Computer Science Department during 2017-2018 and 2019-2020. She did her B.Sc. in Computer Science from St. Xavier's College Ranchi, Jharkhand. She did her MCA, M. Tech and Ph.D. in Computer Science from Jawaharlal Nehru University, New Delhi. She served in various committees and has 6 years of experience in teaching and research. She has published 2 SCIE indexed International Journals research papers. She has presented and published 3 International Conferences research papers. She has received best paper award in an International Conference. Her areas of interest are Artificial Intelligence, Machine Learning, Data Mining, Database Management System.

Ms. Mona Adlakha , Assistant Professor(Adhoc)

Ms. Mona Adlakha is currently serving as an Assistant Professor in the Department of Computer Science, Aryabhata College (University of Delhi) since July 2016. She graduated from St. Stephen's College (Univ. of Delhi) in 1995 with a B.Sc. (Hons) in Physics. In 1998 she completed her Masters in Computer Applications (M.C.A.) from Kurukshetra University and started her career in the software industry. At Aithent Technologies Pvt. Ltd (erstwhile Software Services International Pvt. Ltd.) she worked in various projects in the banking & finance, insurance, healthcare and business solutions. In August 2002 she joined as Lecturer at Kalinda College (University of Delhi) to contribute to academia. Later she joined as Assistant Professor at Ram Lal Anand College (University of Delhi) and served there from August 2006 to September 2013. During this time, she completed her M.Phil. form Madurai Kamraj University in May 2009. She joined Maitreyi College (University of Delhi) from July 2014 to August 2015. She has also served as a Guest faculty for undergraduate and post graduate students in few colleges of University of Delhi. In the past 18+ years she has taught various papers in computer science to undergraduate and post graduate students. She has authored chapters for IGI Global (USA) & CBSE and lessons for Institute of Life Long Learning (ILLL), University of Delhi. Her areas of interest include database management systems, software engineering, machine learning and information security. At Aryabhata College she has been actively involved in the functioning of the Website Committee and NAAC Committee, among others. As Convener/ Co-Convener of TechPioneers (Computer Science Society) she has been instrumental in building the foundation of the society. Ms Adlakha is an important member and key resource person in the newly formed Training Team at Aryabhata College. She is a Certified Digital Teacher by ICT Academy.

Ms. Ruchika Aggarwal , Assistant Professor(Adhoc) She was an Assistant Professor at Department of computer science since July 2016. She did B.SC.(Hons) Computer Science from DU in 2010 and MCA from GGSIPU in 2013. Worked as Project Officer in Common-Wealth Games Organisation. Worked as Software Engineer in NIIT Technologies Ltd. Her areas of interest were Software Engineering (Test data generation), Data Mining, Knowledge Discovery using Classification.

Ms. Neha Kumari , Assistant Professor(Adhoc)

Ms. Neha Kumari is Assistant Professor at Department of computer science since July 2017. She did MCA from IGNOU. She has more than 12 year's year of experience in teaching. She has worked as Assistant Professor at Dept. of computer science, Rajdhani college, DU on Ad-hoc basis from January 2013 to July 2015 and July 2016 to June 2017 also Worked as Guest Faculty(B.Tech) at Rajdhani College, University of Delhi from August 2015 to December 2015. She has Worked as Guest faculty at Atma Ram Sanatan Dharma College, University of Delhi from July 2011 to April 2012 & January 2016 to April 2017, and also Worked as a faculty (BCA & MCA) at study center of IGNOU, Vikaspuri from Jan 2009 to Dec 2011. She has published six research papers in National and International Journals.

Mr. Raj Kumar Sharma , Assistant Professor(Adhoc)

Raj Kumar Sharma is a professional with 32 years of experience and fulfills multiple roles as educators, researchers, and professionals having a broad range of backgrounds, scholarly interests and areas of expertise thereby bringing substantial achievement in professional practice and research into the classroom. Besides high-quality teaching, actively involved in basic

and applied research through various projects and consultancy. Teaching various courses (Computer Programming, Networks, Graphics, and Data Analytics with Python)

Ms. Anjali Gautam , Assistant Professor(Adhoc)

Ms.Anjali Gautama was Assistant Professor(Adhoc) in Department of computer science, Aryabhatta College (University of Delhi). She did her B.Tech.(CSE) in 2012 from Amity school of engineering and technology and M.Tech.(CSE) in 2014 from IIIT Delhi. She worked as Teaching Assistant in IIIT Delhi for 2 years. She worked as Assistant Professor(Adhoc) in Department of computer science, Ram Lal Anand College (University of Delhi) from 03 September 2013 to 30 December 2013. She worked as Assistant Professor(Adhoc) with IITM, GGSIPU, Delhi from 10 January 2012 to 3 September 2013. She has published some research papers in National and International conferences and Journals.

Ms. Ranjana Jatav , Assistant Professor(Adhoc)

Ms. Ranjana Jatav , Assistant Professor(Adhoc) was Assistant Professor(Adhoc) in Department of computer science, Aryabhatta College (University of Delhi). She did her B.Sc.(H) Computer Science in 201 from Bhaskaracharya college of applied sciences, University of Delhi and M.Sc. Computer science in 2015 from Department of computer science, University of Delhi. She worked as Assistant Professor(Adhoc) in Department of computer science, Motilal Nehru College (University of Delhi) from July 2016 to December 2017.

3) Student Strength

First Year	Second Year	Third Year
53	48	38

4) Details of publication work by the faculty members

Dr. Ranjan Kumar, Assistant Professor

- Published a research paper titled 'A Study of Software Reliability on Big Data Open Source Software' in *IJSAEM*, Springer Nature.

Dr. Priti Jagwani, Assistant Professor

- Completed her Ph.D in Computer Science from IIT Delhi in July 2018.
- Published a co-authored paper 'IOT Powered Vehicle Tracking System' in ICCSA 2018 Melbourne conference.

Dr. Sonal Linda, Assistant Professor

- Published a co-authored paper 'A Decision Tree Based Context-Aware Recommender System' in *Intelligent Human Computer Interaction*. IHCI 2018. Lecture Notes in Computer Science, Tiwary U. (eds) vol 11278. Springer, Cham.

- Published a co-authored paper 'A Genetic Algorithm Approach to Context- Aware Recommendations Based on Spatio-temporal Aspects' in *Integrated Intelligent Computing, Communication and Security*. Studies in Computational Intelligence, Krishna A., Srikantaiah K., Naveena C. (eds), vol 771.Springer, Singapore.

Dr. Anjali Gautam, Assistant Professor

- Completed Ph.D titled 'Matrix Factorization Based Recommender System for Large-Scale Data' from Department of Computer Science, University of Delhi in October 2018.
- Published a Journal article titled 'FS-CARS: fast and scalable context-aware news recommender system using tensor factorisation' in the *International Journal of Computational Science and Engineering* in 2019.

5) Participation of faculty members in seminars/workshops ,etc

Dr. Priti Jagwani, Assistant Professor

- Attended a two day FDP on 'Emotional Intelligence' conducted by ICT academy on at RLA college, University of Delhi.
- Attended a two day FDP on 'Introduction to R Programming' conducted by ICT academy at Janki Devi Memorial College, University of Delhi.

Dr. Mona Adlakha, Assistant Professor

- Attended a two day FDP on 'Emotional Intelligence' at Ram Lal Anand College, 5-6 January 2019.
- Attended national level workshop on 'Cyber Disease – Ethical Hacking & Cyber Security' at Bharti College on 21-22 December 2018.
- Attended FDP on 'Introduction to R programming' at Janki Devi Memorial College, University of Delhi 6 July 2018.

Raj Kumar Sharma, Assistant Professor

- Organized a workshop 'Software Configuration Management' for the students of Stratford University, Noida campus on 20 January 2019.

Ms Ranjana Jatav, Assistant Professor

- Attended a two day FDP on 'Introduction to Big Data Analytics' at Shyama Prasad Mukherji College for Women.

6) Library Budget sanctioned for the Department; **Rs90,000/-**

7) (Strength ,Weakness , Opportunities, Challenges) SWOC Analysis of the Department

1 STRENGTH

1. Good strength of faculty.
2. Good Campus placement of MCA and MSc students for the last many years, evidencing that the MCA/MSc curriculum, teaching infrastructure and its environment, etc, have been of great importance to the students and highly relevant to the Industry.
3. Taking responses from students, academic peers and employers, for review and re-design of curricula.
4. Research Publications in peer reviewed journals.
5. Continued academic growth and professional development through Seminars, Workshops, Refresher courses, Conferences etc.

2 WEAKNESSES

1. Number of sponsored major/minor research projects
2. Inadequate number of tie-ups/MoUs
3. Consultancy Activities
4. Fluctuating demand of market affecting placement record.
5. Faculty involvement in collaborative research

3 OPPORTUNITES

1. PURSE-DST grant from University to promote research projects
2. Training for both Faculty members and Students through workshops/seminars
3. Consultancies and Funded research projects.
4. Provision for interdisciplinary research.
5. Support for faculty in their higher studies with sabbatical leave

4 CHALLENGES

1. Adopting industry Open Standards in the department to allow for the most cost-effective acquisition of IT products. The use of a standard and common set of tools will allow for the ease of communication, information interchange and the sharing of data.
2. Admitting high caliber students
3. Instability of Job opportunity in IT industries.
4. Set up a state-of-the-art Research Labs and promote the use of IT on a much wider scale for our teaching, learning, research and administration
5. To have more space for seminar hall/ class room/faculty rooms

8) Future Plans of the Department

1. Work for sponsored research proposals and projects.
2. Keep track of the latest leading-edge development to remain in the forefront of our peers
3. Initiative to establish an open source software lab in each affiliated college

4. Host national/ International conferences to share research findings and challenges prevailing nationally/internationally