Ms. Rupali Ahuja

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EDUCATION

Ph.D(Pursuing)	IGDTUW	Since July 2022
M.Phil. (Computer Applications)	Madurai Kamraj University	March, 2008
M.C.A	Kurukshetra University	July, 1999
B.Sc. (H) Maths	Delhi University	July 1996
JRF-NET (Computer Applications)	UGC	June, 2006

HONORS AND AWARDS

Best paper Award   2008
Paper Title: Aspect Oriented Programming: A Programming Paradigm
Conference: National Conference of Information Technology (NCIT'07)
Location: New Delhi

All India topper in Mathematics in C.B.S.E (10th standard)
College topper B.Sc(H) Maths

INDUSTRIAL EXPERIENCE

Three years of Industrial Experience as Software Consultant at NIIT Technologies from January 1999 to November 2001. Was responsible for Software Development of Client Server and Web applications using Microsoft Technologies like VB, ASP for prestigious clients like Voluntary Welfare Organization of Singapore, Social Development Unit of Singapore, and Toshiba Information Systems of Japan.

TEACHING EXPERIENCE

20+ years of Teaching Experience:

- Assistant Professor (ad-hoc), Department of Computer science, Maitreyi College, DU since October 2008
- Assistant Professor (Temporary), Department of Computer science, Dyal Singh College, from December 2002 to October 2008

- Assistant Professor (ad-hoc), Department of Computer science, Ram Lal Anand College, from July 2002 to November 2002.
- Resource person (2010-2013), Campus of Open Learning (**COL**), DU to teach Web Designing under **UKEIRI project** in collaboration with Telford college, Edinburgh, UK

TEACHING PROFILE

Courses taught
- B.Tech (Computer Science)
- B.A
- B.Sc (Physical Science)
- GE (General Elective)
- SEC (Skill Enhancement Courses)

Subjects taught
- Programming in Java
- PHP programming
- Internet Technologies
- DBMS
- Data Structures
- Computer Fundamentals
- Word Processing software
- Spreadsheet handling
- Web Designing

ADMINISTRATIVE ASSIGNMENTS

- Member, Alumni Committee (2016 till date)
- Member, Avgaahan Committee (2019 till date)
- Member, Website Committee (2022)
- Member, Admission Committee (2023, 2021)
- Member, Short-Term Courses (2015-2020)

ACADEMIC ROLES & RESPONSIBILITIES

- **Actively involved in Curriculum design of the following Papers:**
  - Web Design and Development, B.Sc Multidisciplinary course, Undergraduate Curriculum Framework, NEP 2023
  - PHP Programming, B.Sc. (Physical Science with Computers) VI sem, SEC paper, LOCF curriculum, 2022
  - Programming in Java, B.A (V sem), Discipline subject, LOCF curriculum, 2021
  - Multimedia Systems and applications, B.A (IV sem), Discipline subject, LOCF curriculum, 2021
  - DBMS, B.Tech (Computer Science) II sem, FYUP curriculum
- **Involved in paper setting of many semester end examinations.**
- **Responsible for evaluation of answer sheets of semester examination.**

- **Responsible for conducting practicals of papers taught.**
- **External examinership for conducting practicals of papers taught**

PUBLICATIONS

Journals

1. A paper titled "**Cybercrime in India: An analysis of crime against women in ever expanding digital space**", has been published in *Security and Privacy*., Wiley Online library, 2023; doi: 10.1002/spy2.340 , IF: 1.9, ISSN:2475-6725 , **ESCI indexed**
2. A paper titled "**Challenges, Opportunities and Risk analysis of adoption of Decentralized Finance applications**" has been published in Special issue of Innovations and Technology in FinTech (ITFT-2023) of *ICTACT Journal on Soft Computing* (UGC approved), Volume 14, Issue 1, (Pages):3114 - 3129 DOI : 10.21917/ijsc.2023.0435, Available online at : https://ictactjournals.in/IJSC/Vol14Issue1.aspx , https://ictactjournals.in/paper/5_IJSC_Vol_14_Iss_1_Paper_5_3114_3129.pdf , ISSN 2229-6956

Chapter in Books

1. A Chapter titled "**Role of open Source Software in Big data Storage**", (pages 123-150) has been published by **IGI-GLOBAL** in the Handbook of Research on "Big Data Storage and Visualization Techniques**"**, editors Dr Neha Gupta, Dr Richard Segall. It is available online at https://www.igi-global.com/chapter/role-of-open-source-software-in-big-data-storage/198759
   DOI: 10.4018/978-1-5225-3142-5.ch005
   ISBN13: 9781522531425|ISBN10: 1522531424
   EISBN13: 9781522531432
   DOI: 10.4018/978-1-5225-3142-5

2. A Chapter titled "**Hadoop Framework for handling big data needs**" (pages 101-122) has been published by **IGI-GLOBAL** in the Handbook of Research on "Big Data Storage and Visualization Techniques**"**, editors Dr Neha Gupta, Dr Richard Segall. It is available online at https://www.igi-global.com/chapter/hadoop-framework-for-handling-big-data-needs/198758
   DOI: 10.4018/978-1-5225-3142-5.ch004
   ISBN13: 9781522531425|ISBN10: 1522531424|
   EISBN13: 9781522531432|
   DOI: 10.4018/978-1-5225-3142-5

3. A chapter titled "**Mobile payment for M-Commerce**" has been published by **IGI-GLOBAL** in book titled "Securing Transactions for payment system for M-Commerce", Editors Dr Sushila Madan, Dr Jyoti Batra to be included in book series "Advances in E-Business Research (AEBR) .Series Editor(s): In Lee (Western Illinois University, USA). It is available online at https://www.igi-global.com/chapter/mobile-payments-for-conducting-m-commerce/150074
   ISSN: 1935-2700
   ISBN 152250236X, 9781522502364
   DOI: 10.4018/978-1-5225-0236-4.ch008

Review Article

An article titled "**Role of Hadoop in Big Data Analytics**" has been published in Digital magazine **CSI Communications** (Computer Society of India), Volume No. 41, Issue No. 1, April 2017. ISSN 0970-647X.

http://www.csi-india.org/Communications/CSIC_April_2017.pdf

Conference Papers

1. A paper titled "**A study of the Ongoing Research and Industrial adoption of Aspect Oriented Programming**" written by Mrs. Rupali Ahuja, Dr. Anita Goel published in the proceedings of the **International Conference of Advanced Computing Technologies** (ICACT'08) held in Hyderabad, India in December , 2008. pg 165-171. ISBN No. 978-81-7800-188-3

2. A paper titled "**A study of the effect of Logging using Aspect Oriented Programming**" written by Mrs. Rupali Ahuja, Dr. Anita Goel was accepted for presentation and publication in the proceedings of the **International Conference of Software Engineering Research and Practice** (SERP'08) held in Las Vegas, U.S.A in July , 2008.

3. A paper titled "**An overview of Applications of Aspect Oriented Programming**" written by Mrs. Rupali Ahuja, Dr. Anita Goel was published in the proceedings of the "National Conference on Challenges and Opportunities in Information Technology (COIT'08) held at Punjab, India in March, 2008. pg 9-13. http://rimtengg.com/coit2008/proceedings/SE4.pdf

4. A paper titled "**Aspect Oriented Programming: A Programming Paradigm**" written by Mrs. Rupali Ahuja, Dr. Anita Goel was presented and published in the proceedings of the "National Conference of Information Technology (NCIT'07) held at New Delhi, India in Aug-Sep 2007. pg 375-380. The paper won the "***Best paper Award***".

E-lessons

1. Written **e-lesson** on the topic "Input-Output Devices". This e-lesson is published on the virtual learning portal of Delhi University. ISSN 2349-154X.

2. Written **e-lesson** on the topic "Internet". This e-lesson is published on the virtual learning portal of Delhi University. . ISSN 2349-154X.

RESOURCE PERSON

- Acted as a resource person in the 30 hours certificate course on **"Introduction to Python Programming"** organized by Department of Computer science, Maitreyi College, DU from 5th August, 2023 to 23rd September, 2023.

- Acted as a resource person in the 30 hours certificate course on **"ICT tools and Applications"** organized by Department of Computer science, Maitreyi College, DU from 3rd January, 2023 to 16th January, 2023.

- Acted as a resource person in the 30 hours certificate course on **"ICT tools and Applications"** organized by Department of Computer science, Maitreyi College, DU from 3rd October, 2022 to 15th October, 2022.

- Acted as a resource person in the 4-week training program on **"Google Applications for effective learning and teaching"** organized by Maitreyi College, DU for-training teaching staff of college from 16th July 2020 to 14th August, 2020.

- Acted as a resource person in the 2 day workshop on **"Google Drive and Google sheets"** organized by Maitreyi College, DU for training Non-Teaching staff of college from 11th May 2020 to 12th may, 2020.

- Assisted the Resource persons in the Computer **Workshop on Spreadsheet handling** organised under IQAC cell of Maitreyi College from 22-24th May, 2019.

- Acted as a Resource persons in the Computer **Workshop on Document Creation and handling** organised under IQAC cell of Maitreyi College from 18-21 December, 2018.

- Acted as a resource person in the **Computer Training Program** for Non-teaching staff organised by IQAC cell of Maitreyi College from 17th September, 2020 to 26th September, 2018.

- Acted as a resource person in the **Microsoft workshops** organized by ILLL, DU for training teachers in Microsoft Technologies in 2009.

MENTORSHIP OF SUMMER INTERNSHIP PROJECTS

1. Mentored 2 students of B.A (P) for the research project titled "**Web 3.0: Transforming interactions on the web**" in a Summer Internship Program conducted by Maitreyi College, DU during June- July 2023.
2. Mentored 2 students of B.A (P) for the research project titled "**DeFi: Challenges, Opportunities and Risk analysis of adoption of Decentralized Financial Applications**" in a Summer Internship Program conducted by Maitreyi College, DU during June- July 2023.
3. Mentored 3 students of B.A (P) for the research project titled "**Trend of Online Degree Courses in India: Challenges, Issues and Opportunities**" in a Summer Internship Program conducted by Maitreyi College, DU from 25th May-25th July 2022.
4. Mentored 4 students of B.Sc(Physical science with Computer Science) for the research project titled **"Cybercrime in India: An Analysis of Crime against Women in ever Expanding Digital Space**" in a Summer Internship Program conducted by Maitreyi College, DU from 25th May-25th July 2022. The project won the "Best Project award".
5. Supervised four students for the project titled "**Feedback Collection and Analysis**" in a Summer Internship Program conducted by Maitreyi College, DU from May-July 2019.
6. Supervised four students for the project titled **"Integrating E-resources with college website"** in a Summer Internship Program conducted by Maitreyi College, DU from May-July 2020.

REFRESHER COURSE/ FDP/ WEBINAR/ SEMINAR/ WORKSHOPS

Refresher Course

1. Successfully completed a 12-week Faculty Development programme on **Deep Learning** conducted by Prof. Prof. Sudarshan Iyengar, Prof. Padmavati, IIT Ropar, organised by **NPTEL**, on Swayam platform from Jan to April, 2023.

2. Successfully completed a 12 week Faculty Development programme on **Introduction to Machine Learning** conducted by Prof. Balaraman Ravindran, IIT Madras, organised by **NPTEL**, on Swayam platform from July to November, 2022.
3. Successfully completed a 12 week Faculty Development programme on **Learning Analytics** Tools conducted by Prof. Ramkumar Rajendran, IIT Bombay, organised by **NPTEL**, on Swayam platform from September to December, 2020.
4. Attended an 8 week Faculty Development programme (ARPIT-annual Refresher Programme in Teaching) on **Big Data Analytics For Smart Grid** organised by Swayam.gov.in from September to November, 2019.
5. Attended a 3 week **Refresher course in Computer Science** organized by Department of Computer Science, University of Delhi conducted from Nov19-30, 2009 and Dec29-jan07, 2010.

FDP

1. Attended a 2 days FDP on **Personality Development** organized by Maitreyi College, DU in collaboration with ICT Academy from 23-25 July, 2019.

2. DOI: 10.4018/978-1-5225-3142-5Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "**Data Sciences**" from 25-05-2020 to 29-05-2020 organised by Indian Institute of Information Technology, Vadodara.

3. Attended a One week Online FDP on **"Deep Learning with Matlab and Python"** organized by SRM institute of Science and Technology, Ramapuram campus, Chennai from 13th July, 2020 to 17th July, 2020.

4. Attended a One week Online FDP on **"Open Source tools for research"** organised by Teaching-Learning Centre, Ramanujan College, University of Delhi from 8th June, 2020 to 14th June, 2020.

5. Attended a One week STTP(Short Term Training Program) on **"Data Science & Learning Systems for Engineering Research & Design"** organised by National Institute of Technology, Kurukshetra and Engineering College of Bikaner, Bikaner, from 24th June to 30th June, 2020.

6. Attended a one week FDP on "**Moodle: Learning Management system**" organised by Dr G.Y.Pathrikar College of Computer Science and Information Technology, MGM University, Aurangabad in association with Spoken Tutorial Project, IIT Bombay from 07/05/2020 to 12/05/2020.

7. Attended a 2 days FDP on **Introduction to Big Data Analytics** organized by SPM College, DU in collaboration with ICT Academy from 06-07 December, 2018.

Webinar/ Seminar

1. Attended an International Webinar as a member, Organizing committee, on **"Network Based Approaches to Explore Biological data"** organized by Maitreyi College on 24th July, 2020.

2. Attended an International Webinar on **"Expert Advice for Early Career Researchers"** by ACS Publications on 27th May, 2020.

3. Attended a National Webinar on **"Immunity through Nutrition"** organised by Maitreyi College on 22nd May, 2020.

4. Attended a National Webinar on **"Machine Learning"** organised by Birla Vishwakarma Mahavidyalya on 26th May, 2020.

5. Participated in National Webinar on **"e-Content Development methodology: Four quadrant model, OERs and copyright issues"** organised by Guru Angad Dev Teaching learning Centre (SGTB Khalsa college, University of Delhi) under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching(PMMMNMTT) of MHRD on 15/05/2020.

6. Attended a webinar on "**The Future of Making**" organised by ICT Academy on 14/04/2020.

7. Attended a webinar on **"Introduction to AI and ML"** organised by ICT Academy on 15/04/2020.

8. Participated and presented a poster titled "**Feedback Collection and Analysis**" in a 2 days National seminar on "**Assessment and Accreditation of best practices in Higher Education institutes** under NAAC framework" organized by Maitreyi College, 5-6 November, 2019.

Workshops

1. Attended a 1 day **Workshop on R Programming** organized by Department of Computer Science, Delhi University on 12/02/2018.

2. Attended a 2 day **International Research Workshop on Cloud Computing** organized by Department of Computer Science, Jawaharlal Nehru University on 22-23 December 2016.

3. Attended a 2 day **Workshop on Cloud Computing** organized by Department of Computer Science, Maitreyi College and conducted by Cetpa InfoTech Pvt. Ltd. On 19-20 October 2015.

4. Participated in a **Workshop on Foundation course in Information Technology** conducted by CPDHE, Delhi University on 8-9 February 2015.