



Title	Dr.	First Name	Harita	Last Name	Ahuja	Photograph
Designation	Associate Professor, Computer Science					
Address	Acharya Narendra Dev College Govind Puri, Kalkaji, New Delhi-110019.					
Phone No Office	+ 91 11 26412547, 26293224					
Residence	-					
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Educational Qualifications						
Degree			Institution			Year
Ph. D in Computer Science, with Title: “Information Theoretic Approach for Hybrid Recommender System”			Department of Computer Science, University of Delhi.			16 th Dec, 2014
Masters of Computer Application			Sirifort College of Management and Computer Sciences, Guru Gobind Singh Indrapastha University, Delhi.			2004
Bachelor of Applied Sciences in Electronics			Bhaskaracharya College of Applied Sciences, University of Delhi.			2001
Diploma in Business Management			Institute of Management Technology, Ghaziabad			2002
Career Profile						
<p>I joined the college in 2004, and was awarded Ph.D. from University of Delhi in 2014. I believe that teaching is an art in which a teacher creates a mirror image of her concepts in the minds of her students. I use ICT tools to improve the quality of teaching and learning among heterogeneous students. As part of the college's initiative to use Free and Open-source software, I have always been an active member of the FOSS club, conducting workshops every year for students, faculty and non-teaching staff of the college. With the aim for professional development of the students, I have been associated with Career Counseling and Placement Cell of the college since 2014. To enrich the students to “Beyond the Classroom Teaching” and creating a “Research Culture” among the students, I have been Department Coordinator, DBT Star Scheme of the college since 2017.</p>						
Administrative Assignments						
<u>At Department Level:</u>						
<p>➤ Convener, Department Stock Verification Committee (2009-2011, 2018- 2020)</p> <p>➤ Member, Department Stock Verification Committee (2006-2007, 2007- 2009, 2013 - 2014)</p> <p>➤ Convener, Department Purchase Committee (2009 – 2011, 2018 - 2020)</p> <p>➤ Member, Department Purchase Committee (2008-2009, 2014 – 2016, 2016-2018)</p> <p>➤ Convener, Department Mid Term Semester Exam Committee (2009 – 2011)</p>						

- Member, **Department Mid Term Semester Exam Committee** (2005 – 2006)
- Convener, **Department AMC Committee** (2009 – 2011, 2018-2020)
- Member, **Department AMC Committee** (2008 – 2009, 2014-2018)

Within The College:

- **Teacher-In-Charge**, Physical Science with Computer Science (2014 - 2016)
- **Teacher-In-Charge**, Computer Science (2009 - 2011, 2018 - 2020)
- Member, **Workload and Time Table Committee** (2009-2011, 2014-2016, 2018-2020)
- Convener, **Computer Science Department Admission Committee** (2009-2011, 2018-2020)
- Member, **Computer Science Department Admission Committee** (2007-2009, 2014-2016, 2016-2018)
- Member, **College Library Committee** (2014 - 2016, 2016 - 2018)
- Member, **IT Committee** (2008-2009, 2009-2011, 2014-2016)
- Member, **College Development Committee** (2008-2009, 2009-2011, 2016 – 2018)
- Member, **College Write Off Committee** (2007-2008)
- Member, **Garden Committee** (2005-2007)
- Member, **Canteen Committee** (2009-2011)
- Computer Science, **Department Coordinator, DBT Star Scheme** (2017- 2020), (2021- Till Date)
- Member, **Internal Quality Assurance Cell: IQAC** (2015 - 2016)
- Member, **Finance Committee** (2016-2019)
- Member, **AICTE B. Tech Approval Committee** for courses (Computer Science, Electronics) under FYUP
- Member, **Scholarship Committee** (2020- Till Date)

At University Level:

- Member, **Curriculum Development Committee**, B. Sc. (H) Computer Science LOCF (2019)
- Member, **Curriculum Development Committee**, B. Sc. (Physical Science with Comp Sc) LOCF (2019)
- Member, **Committee of Restructuring of Courses for Under-Graduate** (2007-2008)

Areas of Interest / Specialization

- Recommender Systems
- Computer Graphics
- Disaster Management

Subjects Taught

16 years (December, 2004 to Till Date)

Post-Graduation Level:

Database Management System, Multimedia

Under Graduation Level:

Computer Graphics, Operating System, Network and Internet, Digital Electronics, Computer System Architecture, Computational Skills, Programming using C++, Programming using Python

Research Guidance

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Publications Profile**Publications in Peer Reviewed Journals:**

- **Harita Ahuja**, Sunita Narang, Sharanjit Kaur and Rakhi Saxena. (2022). Entropy for Item Inclination in Sub-community-based Recommender System, International Journal of Advanced Technology and Engineering Exploration, 9(93), 1-23, 2022, ISSN (Print): 2394-5443 ISSN (Online): 2394-7454.
- Dixit V. S., **Harita Mehta** and Punam Bedi. (2014). A Proposed Framework for Group Based Multi Criteria Recommendations, Applied Artificial Intelligence 28:917-956, 2014, Taylor & Francis (Impact factor 0.652, UGC Reference List No. -15917).
- Dixit, V. S., Punam Bedi and **Harita Mehta**. (2013). Generation of Web Recommendations Using Implicit User Feedback and Normalized Mutual Information, International Journal of Knowledge and Web Intelligence (IJKWI), Vol.4, No.2/3 : 113-141. Inderscience (UGC Reference List No. -43410).
- **Mehta, Harita**, V. S. Dixit and Punam Bedi. (2014). Refinement of Group Recommendations Using User Preferences and Item Attributes, International Journal of Computer Information Systems and industrial Applications (IJCISIA), 6 : 515-527.
- **Mehta, Harita**, Punam Dixit. (2013). Group Recommendation for Mitigating New User Problem: a modified OCRG, Journal of Network and Innovative Computing (JNIC). 1(1), 99-108, Dynamic Publishers inc., USA.
- **Mehta, Harita**, Shveta Kundra Bhatia, Punam Bedi and V. S. Dixit. (2011). Collaborative Personalized Web Recommender System using Entropy based Similarity Measure, International Journal of Computer Science Issues (IJCSI), 8(6): 231-240.
- Shveta Kundra Bhatia, **Mehta, Harita** and V. S. Dixit. (2011). Aggregate Profiling for Recommendation of Web Pages using SOM and K-means Clustering Techniques, International Journal of Computer Applications (IJCA), 36 (9): 13-20.

Publications in Conferences:

- **H. Ahuja**, S. Narang and V. S. Dixit, "A Proposed Entropy based Recommender Framework for Disaster Management," 2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO), 2021, pp. 1-6, doi: 10.1109/ICRITO51393.2021.9596331.
- **Mehta, Harita**, V. S. Dixit and. Punam Bedi (2013). Weighted Difference Entropy based Similarity Measure at Two levels in a Recommendation Framework, In proceedings ICACCI 2013 - International Conference on Advances in Computing, Communications and Informatics (ICACCI), Mysore, India: 2076- 2083. USA: IEEE Xplore.
- **Mehta, Harita**, V. S. Dixit and. Punam Bedi (2012). Refinement of Recommendations Based on User Preferences, In proceedings ISDA 2012 - 12th International Conference on Intelligent System Design and Applications, November 27-29, 2012, Kochi, India: 515-520. USA: IEEE Xplore.

- **Mehta, Harita**, Punam Bedi and V. S. Dixit. (2012). OCRG: A Proposed Recommender for Mitigating New User Problem, In proceedings WICT 2012- International Conference on World Congress on Information and Communication Technologies, October 30 – November 02, 2012, Trivandrum, India: 515-519. USA: IEEE Xplore.

Paper Presentations:

- Oral presentation on the paper titled CHAR-TOPSIS: A novel approach to rank Asian countries for safety measures during Covid-19 pandemic during **international e-conference on ‘Mitigating environmental issues by sustainable approaches (ICMCESA-2022)** February 22-28, 2022.
- Oral presentation on the paper titled Comparative analysis of flood vulnerability techniques for detecting area specific indicators during **international e-conference on ‘Mitigating environmental issues by sustainable approaches (ICMCESA-2022)** February 22-28, 2022.
- Presented a paper titled “**Collaborative Recommender systems: At a glance**” in national conference “Techno Tryst 2013: Computational Intelligence – Current and Future Trends, AICTE Sponsored National Conference”; organized by Delhi Institute of Advanced Studies on March 23, 2013.
- Presented a paper titled “**Weighted Difference Entropy Based Similarity Measure at Two Levels in a Recommendation Framework**” in 2nd International Conference on Advances in Computing, Communications & Informatics, held at Sri Jayachamarajendra College of Engineering (SJCE), Mysore, India on August 24, 2013.

Poster Presentations:

- Poster presentation of “Attendance Application: An Android App Development” at **One day Inter Disciplinary Exhibit Presentation on New Frontiers in Science**, held on 22nd October 2019 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- Poster presentation of “Creation of Online Repository of Ciliates of Delhi Region, India” at **One day Inter Disciplinary Exhibit Presentation on New Frontiers in Science**, held on 22nd October 2019 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.

Chapters:

- Collaborative Pre-Disaster Management Recommender System (CPDM-RS), in the book Climate Change and Disaster Management, **Centre for Professional Development in Higher Education**, UGC-HRDC, University of Delhi, with ISBN 978-81-934519-5-3, Page no 123-133.
- Arrays, an e-Chapter: Chapter No: 7, Paper No: CSHT-101, Paper Name: Programming Fundamentals, Unit No: IV, **Virtual Learning Portal (VLE)**, Institute of Life Long Learning (ILLL), University of Delhi (DU).

Books Authored:

- Part of team deputed by Department of Education in Science and Mathematics (DESM), National Council of Educational Research and Training (NCERT), New Delhi in the development of **Computer Science textbook of class XI**, with ISBN 978-93-5292-117-1. (Printed in May, 2019)
- Part of team deputed by Department of Education in Science and Mathematics (DESM), National Council of Educational Research and Training (NCERT), New Delhi in the development of **Informatics Practices textbook of class XI**, with ISBN 978-93-5292-148-5. (Printed in Aug, 2019)

- Part of team deputed by Department of Education in Science and Mathematics (DESM), National Council of Educational Research and Training (NCERT), New Delhi in the development of **Computer Science textbook of class XII**, with ISBN 978-93-5292-338-0. (Printed in Sep, 2020)
- Part of team deputed by Department of Education in Science and Mathematics (DESM), National Council of Educational Research and Training (NCERT), New Delhi in the development of **Informatics Practices textbook of class XII**, with ISBN 978-93-5292-361-8. (Printed in Dec, 2020)

Books Edited:

- Reviewer in the development of **Information and Communication Technology (ICT) textbook for class IX**, with ISBN 978-93-5292-118-8, National Council of Educational Research and Training (NCERT), New Delhi. (Printed in Feb, 2019)
- Reviewer of following lessons of Certificate in **Computer Applications Vocational course of National Institute of Open Schooling (NIOS)**, Noida: (a) Computer Concepts and Networking; (b) Computer Software; (c) Basics of Data Management; (d) Information Security; (e) E- Governance; (f) Social Networking; (g) Office Productivity Tools.

Conference/ Presentations/Workshops

Faculty Development Programs Attended:

- Building Recommender System using ML and AI, from UdeMy in June, 2022, under the aegis of DBT Star Scheme 2022.
- Two week Online Interdisciplinary Refresher Course on “**Managing Online Classes and Co- Creating MOOCs**” under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Human Resource Development (MHRD) held from 2nd June 2021 to 16th June 2021 at Teaching Learning Centre, Ramanujan College, University of Delhi (DU), New Delhi.
- One week Faculty Development Programme on “**E-Learning and Developing MOOCs for Teaching Process in Higher Education**” under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Human Resource Development (MHRD) in collaboration with Department of Statistics and IQAC, Hindu College, University of Delhi, held from 14th December 2020 to 20th December 2020.
- One week Faculty Development Programme on “**Introduction to Machine Learning in Research (Concepts and Practical Use)**” under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Human Resource Development (MHRD) in collaboration with Department of Computer Science, Ram Lal Anand College, University of Delhi, held from 10th October 2020 to 18th October 2020.
- Two Week Faculty Development Programme on “**Recent Advances in Research Methodology**” under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Human Resource Development (MHRD) held from 17th January 2020 to 28th January 2020 at Teaching Learning Centre, Ramanujan College, University of Delhi (DU), New Delhi.
- One Week Faculty Development Programme on “**Network Science: Foundation of Social Network Analysis**” under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Human Resource Development (MHRD) held from 3rd December 2018 to 8th December 2018 conducted by Teaching Learning Centre, Ramanujan College, University of Delhi (DU), New Delhi and held at Department of Computer Science, University of Delhi (DU), Delhi.

- Two Day Faculty Development Programme on “**Emotional Intelligence**” conducted by ICT Academy on 1st April 2019 to 2nd April 2019 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- One Day Faculty Development Program on “**Teachers as mentors**” conducted by Internal Quality Assurance Cell on 25th October, 2018 held at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- Five Day Faculty Development Program on “**Course: Java fundamentals and Programming**” conducted by ICT in collaboration with Oracle Academy on 30th July 2018 to 3rd August 2018.
- UGC Sponsored 3 weeks Interdisciplinary Refresher Course in **Climate Change and Disaster Management (ID)** from June 09, 2017 to June 30, 2017; conducted by Human Resource Development Centre, Centre for Professional Development in Higher Education (CPDHE), University of Delhi (DU), Delhi.
- UGC Sponsored Refresher Course in **Computer Science** from November 19, 2009 to November 30, 2009 and December 29, 2009 to January 07, 2010; conducted by Centre for Professional Development in Higher Education (CPDHE), Institute of Life Long Learning (ILL), University of Delhi (DU), Delhi.
- UGC Sponsored **Orientation Programme (OR-60)** from June 09, 2009 to July 06, 2009; conducted by Centre for Professional Development in Higher Education (CPDHE), Institute of Life Long Learning (ILL), University of Delhi (DU), Delhi.
- 10 Days workshop on “**Course: Training of Teachers in e-Learning**”, from November 13, 2006 to November 24, 2006, organized by Department of Information Technology, Ministry of Communications and Information Technology, Govt. of India and University of Delhi.

Workshops Attended:

- One Week online workshop entitled “**Tools and Techniques in Statistical Analysis**” organized by Acharya Narendra Dev College, University of Delhi, under the aegis of DBT STAR College Scheme, from April 6-19, 2021.
- National Webinar on “**Our Environment and Covid-19**” conducted by Eco Club “Paritantra” of ANDC on 5th June, 2020 held at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- One Day Training Workshop on “**e- Filing of ITR -1**” conducted by Internal Quality Assurance Cell on 29th July, 2019 held at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- Attended following workshops at Department of Education in Science and Mathematics (DSEM), National Council of Educational Research and Training (NCERT):
- Five Day workshop for **Development of Syllabi and Textbooks** for Class IX and XII (Computer Science; Information and Communication Technology; Multimedia and Web) from 11th December, 2017 to 15th December 2017.
- Two Day workshop for **Development of Computer Science and Informatics Practices Textbook** for Class XI and XII from 17th January, 2018 to 18th January, 2018.
- Three Day workshop for **Development of Informatics Practices Textbook** for Class XI from 27th February, 2018 to 1st March, 2018.
- Three Day workshop for **Development of Computer Science and Informatics Practices Textbook** for Class XI and Class XII from 12th June, 2018 to 14th June, 2018.

- Three Day workshop for **Development of Computer Science and Informatics Practices Textbook** for Class XI and Class XII from 12th July, 2018 to 14th July, 2018 and 16th July, 2018.
- Two Day workshop for **Development of Information Practices Textbook for Class XII** from 12th September, 2018 to 13th September, 2018.
- Two Day workshop for **Development of Information Practices Textbook for Class XII** from 12th October, 2018 to 13th October, 2018.
- One day workshop for **Development of Computer Science Textbook for Class XII**, on 24th October, 2018.
- Two Day workshop for **Development of Information Practices Textbook for Class XII** from 1st February, 2019 to 2nd February, 2019.
- Three Day workshop for **Development of Computer Science and Informatics Practices Textbook** for Class XI and Class XII from 8th July, 2019 to 10th July, 2019.
- Two Day workshop for **Development of Informatics Practices Textbook** for Class XI and Class XII from 24th Dec, 2019 to 26th Dec, 2019.
- Attended following workshops at Central Institute of Educational Technology (CIET), National Council of Educational Research and Training (NCERT):
- Five Day workshop to **review the draft Textbook for Class IX** from 4th June, 2018 to 8th June, 2018.
- Two Day workshop for **Development of ICT Textbook for Class X** from 23rd January, 2019 to 24th January, 2019.
- Three Day workshop for **Development of ICT Textbook for Class X** from 25th February, 2019 to 27th February, 2019.
- Attended a Two-Day workshop of Teachers on **Introduction to Linux**, organized by ANDC, DU, from 7th December, 2007 to 8th December 2007.

Conferences Organized:

- As Department Coordinator, DBT Star College Scheme 2021-2022, organized
 - ✓ **“International e-conference on Mitigating environmental issues by sustainable approaches (ICMCESA-2022)”** at ANDC, DU from February 22-28, 2022.
 - ✓ **“One-day interaction programme “Science Adda”,** at ANDC, DU held on December 20, 2021.
- As Department Coordinator, DBT Star College Scheme 2017-2020, organized **“One Day Inter Disciplinary Exhibit Presentation on New Frontiers in Science”**, held on 22nd October 2019 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.

Technical Talks Organized:

- As Department Coordinator, DBT Star College Scheme 2021-2022, organized following Technical Talks under Turing Society:
 - ✓ **“Role of IT in Indian Banking system”** on 14th Jul, 2021 by Prof. Madhu Vij, Former Professor in Finance, Faculty of Management Studies, University of Delhi
 - ✓ **“Semantic Intelligence- The next step in Artificial Intelligence”** on 1st Oct, 2021 by Dr. Sarika Jain, Assistant Professor, Department of Computer Science, NIT, Kurukshetra
 - ✓ **“Explainable AI”** on 4th Oct, 2021 by Mr. Pranjal Mishra, Lead Data Scientist, CIMB Bank

- ✓ **“Predictive Modeling using Python”** on 8th Oct, 2021 by Dr. Nihar Ranjan Roy, Associate Professor, Sharda University
- ✓ **“Cisco Network Administration”** on 3rd and 4th Mar, 2022 by Mr. Bineet Kumar Joshi, Assistant Professor, Department of Computer Science, Swami Rama Himalayan University
- ✓ **“Wireless Security Network”** on 4th Mar, 2022 by Prof. Sanjay Kumar Dhurandher, Professor and Head in the Division of Information Technology, Netaji Subhas Institute of Technology (NSIT), DU, India
- As Department Coordinator, DBT Star College Scheme 2020-2021, organized a Technical Talk online under Turing Society on **“Insights of Machine Learning Algorithms”** on 3rd Nov, 2020 by Dr. Rajni Jain, Principal Scientist, IASRI
- As Department Coordinator, DBT Star College Scheme 2017-2020, organized following Technical Talks:
 - ✓ **“System Automation & HA clustering”** by Mr. Manish Bansal, Principal System Engineer, Altran Technologies on 7th Nov, 2019.
 - ✓ **“Chaos Engineering”** by Mr. Jitender Singh on 15th Feb, 2019.
 - ✓ **“Top Careers in I.T. in 21st Century”** by Prof. R. Chadha, Landmark Institute from Landmark Institute, Patel Nagar, New Delhi on 6th Feb, 2019.
 - ✓ **“Turing test to Deep Learning”** by (Prof.) Dr. Vasudha Bhatnagar, Department of Computer Science, University of Delhi on 19th Sep, 2018.
 - ✓ **“Cloud Computing”** by Mr Lalit Mathur, Director, DCIRRUS on 22nd Feb, 2018.
 - ✓ **“E-Waste – A Challenge of 21st Century”** by Dr Geeta Bhatt, Associate Professor, Department of Instrumentation, Bhaskaracharya College of Applied Sciences, University of Delhi on 22nd Feb, 2018.
 - ✓ **“Ethical Hacking”** by Dr A.K. Mohapatra Associate Professor, Indira Gandhi Delhi Technical University for Women on 15th Sep, 2017.
 - ✓ As Member, Turing Society, organized following Technical Talks:
 - ✓ **“Cloud Computing”** by Dr. Sheik Faraz Osmani, Joint Director, Planning and Analysis Cell, Ministry of Petroleum and Natural Gas, New Delhi on 8th Sep, 2015.
 - ✓ **“Recommender System”** by Dr. Punam Bedi, Associate Professor, Department of Computer Science, DU on 12th Mar, 2010.
 - ✓ **“Techno Speak”** by Mr. Sourabh Jain, CEO, Thinkvent Technologies on 18th Dec, 2009.
 - ✓ **“Clustering in MANETS”** by Mr. Sanjay Kumar Dhurandher, Assistant Professor, NSIT on 4th Sep, 2009.
 - ✓ **“Trends in FOSS”** by Dr. Sudhakar Yerneni, C-DAC, India on 2nd September 2008.
 - ✓ **“Data Warehousing and Data Mining”** by Dr. Vasudha Bhatnagar, Associate Professor, Department of Computer Science, DU on 10th Sep, 2007.

Workshops/ Seminars Organized:

Faculty, Non-Teaching Staff and students:

- As Department Coordinator, DBT Star College Scheme 2021-2022, organized following workshops:

- Two- Day online workshop on “**Effective Presentation & Image Management for Success**” by Mrinal Gupta Virmani, Confidence Coach & Soft skills Trainer, Image Consultant & Chartered Accountant from 24th Aug – 25th Aug, 2021
- Two- Day online workshop on “**Front End Web UI Frameworks Overview: Bootstrap**” by Mr. Ashwani Bhatia, Web Designer/ Developer from 2nd Oct – 3rd Oct, 2021
- Two- Day online workshop on “**HTML: A Prerequisite for MERN Stack**” by Mr. Rishi Sarbobhoum, Mr. Aditya Goyal, Mr. Devesh Yadav, Mr. Sushant Sharma, Students, ANDC from 6th Oct – 7th Oct, 2021
- Four- Day online workshop on “**A First Step Towards Developing Virtual Lab Using MERN Stack**” by Mr. Prabhat Chandra, Freelance Trainer/ Developer from 9th Oct – 24th Oct 2021
- Five- Day online workshop on “**Face Recognition using Python**” by Dr. Xavier Chelladurai, Director and Professor, Christ Human Resource Center from 26th Oct -30th Oct 2021
- Two- Day online workshop on “**Let’s Talk DevOps**” by Mr. Shailesh Thakur, Senior DevOps Engineer, o9 Solutions Inc. from 11th Mar – 13th Mar, 2022
- As Department Coordinator, DBT Star College Scheme 2020-2021, organized following workshops under FOSS Club, Computer Science Department:
- Five-Day online Workshop on “**Data Analysis and Visualization of Covid-19 Data using Python**” 22nd Jun, 2021 - 26th Jun, 2021.
- One day workshop on “**Google Classroom**” on 27th Nov, 2020 for first year students of BSc(H) CS and BSc(P) CS.
- As Department Coordinator, DBT Star College Scheme 2020-2021, organized following for Faculty and Non-Teaching Staff:
- Webinar on “**Unraveling the Social Network of Covid-19 in India from 30th Jan to 6th Apr, 20**” by Dr. Sarita Azad, Assistant Professor, IIT Mandi, Himachal Pradesh on 15th June, 2020.
- As Department Coordinator, DBT Star College Scheme 2017-2020, organized following for Faculty and Non-Teaching Staff:
- “**One Day FDP on Machine Learning**” by Dr. Ramesh Aggarwal, Professor, JNU held on 4th Mar, 2020 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- “**Two Day FDP on Emotional Intelligence**” by Prof. Anil Ohri, ICT Academy, held from 1st Apr 2019 to 2nd Apr, 2019 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- Under Turing Society, organized following workshops for Faculty and Non-Teaching Staff:
- Convener of a **One Day** workshop for Non – Teaching Staff of the college on “**Hands on Training on Excel and Photoshop**”, held on 19th September 2015 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- Member of Organization Committee of a “**Three Day workshop on Linux’09: Linux, FOSS and Clustering**”, for faculty and non-teaching staff held from 5th January 2009 to 7th January 2009 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi by Amit Karpe, Mr. Niyam Bhushan and Dnyanraj Mali (FOSS enthusiasts).
- Member of Organization Committee of a “**Two Day workshop on FOSS**” for faculty held from 3rd January 2008 to 4th January 2008 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi
- Member of Organization Committee of a “**One Day workshop on FOSS**” for non-teaching staff held on 2nd January 2008 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi

Students:

- As Department Coordinator, DBT Star College Scheme 2017-2020, organized following workshops for the students:
- **Four day** Inter Disciplinary workshop on “**Linux and FOSS**” for first year students of the college, held from 16th September 2019 to 19th September 2019 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **Cloud Literacy Day**, with Mr. Lovkesh, ICT Academy as Resource Person on 9th Oct, 2018 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **One Day** workshop on “**Awareness on Digital India Initiative**”, held on 18th September 2018 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **Two Day** workshop on “**Linux and FOSS**”, held from 28th August 2018 to 4th September 2018 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **Three Day** workshop on “**Linux and FOSS**”, held from 8th August 2017 to 11th August 2017 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- Under Turing Society and FOSS Club, organized following workshops for the students:
- **Member** of Organization Committee of a **Five-Day** workshop on “**FOSS and Linux Familiarization**” for first year students of the college, held from 21st July 2016 to 25th July 2016 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **Member** of Organization Committee of a three day “**Rajatutsav**”, held during 6th February 2016 to 9th February 2016 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **Member** of Organization Committee of a two day “**NAAC Visit**”, held during 8th March 2016 to 9th March 2016 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **Member** of Organization Committee of a **Four Day** workshop on “**FOSS & Linux Familiarization**”, held from 18th August 2015 to 21st August 2015 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **Member** of organizing committee, of a **24 (8*3) hour “FOSS Familiarization”** workshop from 24th March to 3rd April, 2014 for the students of first year FYUP course in association with Dr. Sanjeev Singh, Head of Institute of Informatics and Communication (IIC), University of Delhi, South Campus (DUSC), conducted at FOSS Club, Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **Member** of organization committee of **One day Training Programme** on “**Introduction to Linux platform and Open Software**” at Acharya Narendra Dev College, University of Delhi (DU), New Delhi on 20th October 2010.
- **Convener** of organization committee of a **Seven Day workshop** on “**Basic Computer Training Programme**” for the new entrants of the college, held from 20th August 2010 to 26th August 2010 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **Member** of Organization Committee of a Two-day workshop on “**Application of Open-Source Software in Science Teaching & Research**” in association with NRCFOSS, Anna University Chennai in college premises from 14th April 2010 to 15th April 2010.
- **Member** of Organization Committee of a One Day workshop on “**Open-Source Software (FOSS): Awareness & Possibilities**” in South Campus, University of Delhi on 16th Apr 2010.
- **Member** of Organization Committee of a **Two-Day** workshop on “**Importance of FOSS in IT industry, career prospects, basics of kernel & its security, socket programming & JQuery**”, held from 8th January 2010 to 9th January 2010 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi by Mr. Satyaakam Goswami (FOSS enthusiast), Mr. Mohit Singh (HOD, IIMT, Eng. Col., Meerut) & Mr. Narendra Sisodiya (a Linux expert).

<ul style="list-style-type: none"> ➤ Convener of organization committee of a Five-Day workshop on “Basic Computer Training” for the new entrants of the college, held from 1st August 2009 to 5th August 2009 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi. ➤ Member of Organization Committee of a Two-Day workshop on “Linux 09: Linux, FOSS & Clustering”, held from 3rd January 2009 to 4th January 2009 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi. ➤ Member of Organization Committee of a One Day workshop on “Software Engineering” for PGDCA students, held in August 2008 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi. ➤ Member of Organization Committee of a One Day seminar on “Advance computing” on 4th March, 2008 at ANDC covering following areas: 1. “History of Computing” by Dr. R.K Datta, Former advisor DST, 2. “Cyber Crime & Terrorism” by A.K. Mahapatra, Faculty IP University, 3. “Bio-Informatics: An Introduction” by Dr. A.R. Rao, Sr. Scientist, IASRI, Pusa, 4. “Data Warehousing: An Overview” by Dr. Anil Rai, Sr. Scientist, IASRI, Pusa. ➤ Member of Organization Committee of a One Day seminar on “Parallel Computing” held on 17th December 2006 by Prof. Bhattacharya, Dept of Mathematics, IIT Delhi and “Hot Careers in IT” by NIIT Kalkaji, Delhi at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
Research Projects (Major Grants/Research Collaboration)
<ul style="list-style-type: none"> ➤ CHAR-TOPSIS- A novel approach to Rank Asian Countries for safety measures during Covid-19 Pandemic., Star Elite Project, 2021-2022 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India. ➤ Data Analysis & Visualization of Rainfall and Floods in India, Star Elite Project, 2021-2022 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India. ➤ Simulation of mid-point line algorithm using Python Tools, Star Elite Project, 2020-2021 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India. ➤ Attendance Application: An Android App Development, Star Elite Project, 2019-2020 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India. ➤ Creation of Online Repository of Ciliates of Delhi Region, India, Star Elite Project, 2019-2020 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India. ➤ ANDCCCPC: ANDC Career Counseling and Placement Cell, Star Elite Project, 2018-2019 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India. ➤ Online Recommender System, Star Elite Project, 2016-2017 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India. ➤ Movie Recommender System, Elite Project, 2015-2016. ➤ Development of an All-In-One module for real time Agricultural Data Acquisition and Processing, AND 310, Innovation Project, University of Delhi, 2015-2016.
Awards and Distinctions
-
Association With Professional Bodies
<ul style="list-style-type: none"> ➤ Session Chair during the International e-conference on ‘Mitigating environmental issues by sustainable approaches (ICMCESA-2022)’ organized by Acharya Narendra Dev College, DU from February 22-28, 2022 under the aegis of IQAC and DBT Star College Scheme.

- **Session Co-Chair** during the International e-conference on 'Mitigating environmental issues by sustainable approaches (ICMCESA-2022)' organized by Acharya Narendra Dev College, DU from February 22-28, 2022 under the aegis of IQAC and DBT Star College Scheme.
- **Resource person** for a 2 hours session on "**Canva: Online Graphics Designing Tool**", on 3 March, 2022 in 30 hours online Add-On course on 'Information & Communications Technology' held from 20th February-27th March 2022, organized by Department of Computer Science under the aegis of IQAC, Swami Shraddhanand College, DU.
- **Resource person** for a 2 hours session on "**Social Ethics & Cyber Security**", on 15 March, 2022 in 30 hours online Add-On course on 'Information & Communications Technology' held from 20th February-27th March 2022, organized by Department of Computer Science under the aegis of IQAC, Swami Shraddhanand College, DU.
- **Resource person** for a session on "**BMI Calculator, an Android Application**" on 20 December, 2021 in One Day Interaction Program "Science Adda" organized under DBT Star Scheme by Acharya Narendra Dev College, DU.
- **Resource person** for a 2 hours session on "**Introduction to NumPy and Hands-on with NumPy**", on 23 June, 2021 of Five-day online workshop on "Data Analysis and Visualization of Covid-19 Data using Python" held from June 22-26, 2021, organized under DBT Star Scheme by Acharya Narendra Dev College, DU.
- **Member**, Technical Program Committee in 2016 5th International Conference on Reliability, Infocom Technologies and Optimization (ICRITO), Trends and Future Directions, organized in association with **Computer Society of India (CSI)**, held on 7th September to 9th September, 2016, held at Amity Institute of Information Technology, Amity University, Uttar Pradesh.
- **Member** of Organization Committee of a Two-day workshop on "Application of Free/ Open Software in Science Teaching and Research", held from 14th April 2010 to 15th April 2010 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi, organized in association with **NRCFOSS**, Anna University, Chennai.

Other Activities

Co – Curricular Activities:

- Member, **Electronics Club** (2005-2007, 2007-2009)
- Member, **FOSS Club**, Department of Computer Science (2007- 2011, 2013-2014, 2015-2017, 2020 – Till Date)
- Member, **Turing Society**, Department of Computer Science (2004-2010, 2014-2016)

Professional Development Activities:

- Convener, **Career Counseling and Placement Cell** (2014-2016, 2016-2018, 2020 - Till Date)
- Member, **Career Counseling and Placement Cell** (2007-2008)
- Member, **Women Student Affairs Committee** (2007-2008, 2014-2016)

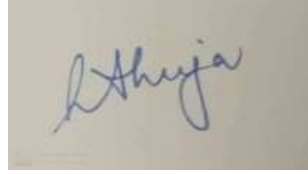
Educational Visits Organized:

- As Department Coordinator, DBT Star College Scheme 2017-2020, organized a visit to **National Science Center**, Pragati Maidan, Bharo Marg, New Delhi on 26th Feb, 2020.
- As Department Coordinator, DBT Star College Scheme 2017-2020, organized a visit to **Indian Agricultural Statistics Research Institute (IASRI) and Indian Agricultural Research Institute (IARI)** on 11th Oct, 2018.

- As Department Coordinator, DBT Star College Scheme 2017-2020, organized a visit to **National Centre for Medium Range Weather Forecasting (NCMRWF)** by students of B. Sc. (H) Computer Science and B. Sc. Physical Sciences (Computer Science) on 18th Sep, 2017.
- As Member, Turing Society, organized a visit to **Open House, 2015 in IIT Delhi** on 18th Apr, 2015.

Syllabi Enrichment:

- **Content writer** in curriculum development (syllabus) of following at National Council of Educational Research and Training (NCERT), New Delhi.
 - ✓ **Computer Science textbook for class XI and class XII**
 - ✓ **Information and Communication Technology textbook for class XI and class XII**
 - ✓ **Multimedia and Web Technology textbook for class XI and class XII**
- **Reviewer** in Syllabus development of **Information and Technology (ICT) textbook for class X**, National Council of Educational Research and Training (NCERT), New Delhi.
- **E- Learning Lectures on various Topics available at College U-Tube Channel:**
 - ✓ NumPy
 - i. <https://www.youtube.com/watch?v=QTPdnceb5As>
 - ii. https://www.youtube.com/watch?v=bc7yEw_2L74&t=26s
 - iii. <https://www.youtube.com/watch?v=RbAoxl4ZiRw&t=28s>
 - iv. https://www.youtube.com/watch?v=5C_kiSCBZn8&t=37s
 - v. https://www.youtube.com/watch?v=x_B-pIVRON0
 - ✓ Mid-Point Line Algorithm
 - i. <https://www.youtube.com/watch?v=Ny8EKSKQLHY&t=30s>
 - ii. https://www.youtube.com/watch?v=zb89hZqbM_8
 - iii. <https://www.youtube.com/watch?v=YpEyyDEyclo>
 - ✓ Canva: Online Graphics Design Tool
 - i. <https://youtu.be/ba4Y76EkCuE>
 - ii. <https://youtu.be/O2zL2OaUQu4>
 - iii. <https://youtu.be/-Fon5gQ5isY>
 - iv. <https://youtu.be/rp1fcbDvxpk>
 - v. https://youtu.be/KmcZI_3SsJs
 - vi. <https://youtu.be/y51Ct3ACY6o>
 - vii. <https://youtu.be/rTW0xmsqIpk>
 - viii. <https://youtu.be/A7Z0CPZvPxM>
 - ix. <https://youtu.be/k2yDL5buWp0>



Signature of Faculty Member