




Title	Dr.	First Name	Harita	Last Name	Ahuja	Photograph
Designation	<b>Associate Professor, Computer Science</b>					
Address	Acharya Narendra Dev College Govind Puri, Kalkaji, New Delhi-110019.					
Phone No Office	+ 91 11 26412547, 26293224					
Residence Mobile	-					
Email/ Web-Page	<a href="mailto:haritaahuja@andc.du.ac.in">haritaahuja@andc.du.ac.in</a>					
<b>Educational Qualifications</b>						
Degree		Institution			Year	
<b>Ph. D in Computer Science</b> , with Title: “Information Theoretic Approach for Hybrid Recommender System”		Department of Computer Science, University of Delhi.			16 <sup>th</sup> Dec, 2014	
<b>Masters of Computer Application</b>		Sirifort College of Management and Computer Sciences, Guru Gobind Singh Indrapastha University, Delhi.			2004	
<b>Bachelor of Applied Sciences in Electronics</b>		Bhaskaracharya College of Applied Sciences, University of Delhi.			2001	
<b>Diploma in Business Management</b>		Institute of Management Technology, Ghaziabad			2002	
<b>Career Profile</b>						
<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 <b>Free and Open-source software</b>, 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 <b>professional development</b> of the students, I have been associated with Career Counseling and Placement Cell of the college since 2014. To enrich the students to “<b>Beyond the Classroom Teaching</b>” and creating a “<b>Research Culture</b>” among the students, I have been Department Coordinator, DBT Star Scheme of the college since 2017.</p>						
<b>Administrative Assignments</b>						
<p><b><u>At Department Level:</u></b></p> <ul style="list-style-type: none"> <li>➤ Convener, <b>Department Stock Verification Committee</b> (2009-2011, 2018- 2020)</li> <li>➤ Member, <b>Department Stock Verification Committee</b> (2006-2007, 2007- 2009, 2013 - 2014)</li> <li>➤ Convener, <b>Department Purchase Committee</b> (2009 – 2011, 2018 - 2020)</li> <li>➤ Member, <b>Department Purchase Committee</b> (2008-2009, 2014 – 2016, 2016-2018)</li> <li>➤ Convener, <b>Department Mid Term Semester Exam Committee</b> (2009 – 2011)</li> </ul>						

- 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:**

- 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:**

- **Ahuja, H.**, Narang, S., & Dixit, V. S. (2021, September). A Proposed Entropy based Recommender Framework for Disaster Management, in 2021 9th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions) (ICRITO) (pp. 1-6). IEEE.
- **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 Jayachamarajindra 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 22<sup>nd</sup> 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 22<sup>nd</sup> 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 2<sup>nd</sup> June 2021 to 16<sup>th</sup> 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 14<sup>th</sup> December 2020 to 20<sup>th</sup> 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 10<sup>th</sup> October 2020 to 18<sup>th</sup> 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 17<sup>th</sup> January 2020 to 28<sup>th</sup> 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 3<sup>rd</sup> December 2018 to 8<sup>th</sup> 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 1<sup>st</sup> April 2019 to 2<sup>nd</sup> 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 25<sup>th</sup> 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 30<sup>th</sup> July 2018 to 3<sup>rd</sup> 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 (ILLL), 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 (ILLL), 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 5<sup>th</sup> 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 29<sup>th</sup> 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 11<sup>th</sup> December, 2017 to 15<sup>th</sup> December 2017.
- Two Day workshop for **Development of Computer Science and Informatics Practices Textbook** for Class XI and XII from 17<sup>th</sup> January, 2018 to 18<sup>th</sup> January, 2018.
- Three Day workshop for **Development of Informatics Practices Textbook** for Class XI from 27<sup>th</sup> February, 2018 to 1<sup>st</sup> March, 2018.
- Three Day workshop for **Development of Computer Science and Informatics Practices Textbook** for Class XI and Class XII from 12<sup>th</sup> June, 2018 to 14<sup>th</sup> June, 2018.
- Three Day workshop for **Development of Computer Science and Informatics Practices Textbook** for Class XI and Class XII from 12<sup>th</sup> July, 2018 to 14<sup>th</sup> July, 2018 and 16<sup>th</sup> July, 2018.

- Two Day workshop for **Development of Information Practices Textbook for Class XII** from 12<sup>th</sup> September, 2018 to 13<sup>th</sup> September, 2018.
- Two Day workshop for **Development of Information Practices Textbook for Class XII** from 12<sup>th</sup> October, 2018 to 13<sup>th</sup> October, 2018.
- One day workshop for **Development of Computer Science Textbook for Class XII**, on 24<sup>th</sup> October, 2018.
- Two Day workshop for **Development of Information Practices Textbook for Class XII** from 1<sup>st</sup> February, 2019 to 2<sup>nd</sup> February, 2019.
- Three Day workshop for **Development of Computer Science and Informatics Practices Textbook** for Class XI and Class XII from 8<sup>th</sup> July, 2019 to 10<sup>th</sup> July, 2019.
- Two Day workshop for **Development of Informatics Practices Textbook** for Class XI and Class XII from 24<sup>th</sup> Dec, 2019 to 26<sup>th</sup> 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 4<sup>th</sup> June, 2018 to 8<sup>th</sup> June, 2018.
- Two Day workshop for **Development of ICT Textbook for Class X** from 23<sup>rd</sup> January, 2019 to 24<sup>th</sup> January, 2019.
- Three Day workshop for **Development of ICT Textbook for Class X** from 25<sup>th</sup> February, 2019 to 27<sup>th</sup> February, 2019.
- Attended a Two-Day workshop of Teachers on **Introduction to Linux**, organized by ANDC, DU, from 7<sup>th</sup> December, 2007 to 8<sup>th</sup> December 2007.

**Conferences Organized:**

- As Department Coordinator, DBT Star College Scheme 2021-2023, organized “**International e-conference on Mitigating environmental issues by sustainable approaches (ICMCESA-2022)**” at ANDC, DU from February 22-28, 2022.
- 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:
  - ✓ “**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
  - ✓ “**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

- ✓ **“Cisco Network Administration”** on 3rd- 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 7<sup>th</sup> Nov, 2019.
  - ✓ **“Chaos Engineering”** by Mr. Jitender Singh on 15<sup>th</sup> Feb, 2019.
  - ✓ **“Top Careers in I.T. in 21st Century”** by Prof. R. Chadha, Landmark Institute from Landmark Institute, Patel Nagar, New Delhi on 6<sup>th</sup> Feb, 2019.
  - ✓ **“Turing test to Deep Learning”** by (Prof.) Dr. Vasudha Bhatnagar, Department of Computer Science, University of Delhi on 19<sup>th</sup> Sep, 2018.
  - ✓ **“Cloud Computing”** by Mr Lalit Mathur, Director, DCIRRUS on 22<sup>nd</sup> 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 22<sup>nd</sup> Feb, 2018.
  - ✓ **“Ethical Hacking”** by Dr A.K. Mohapatra Associate Professor, Indira Gandhi Delhi Technical University for Women on 15<sup>th</sup> 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 8<sup>th</sup> Sep, 2015.
    - ✓ **“Recommender System”** by Dr. Punam Bedi, Associate Professor, Department of Computer Science, DU on 12<sup>th</sup> Mar, 2010.
    - ✓ **“Techno Speak”** by Mr. Sourabh Jain, CEO, Thinkvent Technologies on 18<sup>th</sup> Dec, 2009.
    - ✓ **“Clustering in MANETS”** by Mr. Sanjay Kumar Dhurandher, Assistant Professor, NSIT on 4<sup>th</sup> Sep, 2009.
    - ✓ **“Trends in FOSS”** by Dr. Sudhakar Yerneni, C-DAC, India on 2<sup>nd</sup> September 2008.
    - ✓ **“Data Warehousing and Data Mining”** by Dr. Vasudha Bhatnagar, Associate Professor, Department of Computer Science, DU on 10<sup>th</sup> 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 22 – 26 Jun, 2021



- Two- Day online workshop on “**Front End Web UI Frameworks Overview: Bootstrap**” by Mr. Ashwani Bhatia, Web Designer/ Developer from 2 – 3 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 6 – 7 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 9 – 24 Oct 2021
- Five- Day online workshop on “**Face Recognition using Python**” by Dr. Xavier Chelladurai, Director and Professor, Christ Human Resource Center from 26 -30 Oct 2021
- Two- Day online workshop on “**Let’s Talk DevOps**” by Mr. Shailesh Thakur, Senior DevOps Engineer, o9 Solutions Inc. From 11 – 13 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**” 22<sup>nd</sup> Jun, 2021 - 26<sup>th</sup> Jun, 2021.
- One day workshop on “**Google Classroom**” on 27<sup>th</sup> 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 30<sup>th</sup> Jan to 6<sup>th</sup> Apr, 20**” by Dr. Sarita Azad, Assistant Professor, IIT Mandi, Himachal Pradesh on 15<sup>th</sup> 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 19<sup>th</sup> 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 5<sup>th</sup> January 2009 to 7<sup>th</sup> 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 3<sup>rd</sup> January 2008 to 4<sup>th</sup> 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 2<sup>nd</sup> 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 16<sup>th</sup> September 2019 to 19<sup>th</sup> 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 9<sup>th</sup> Oct, 2018 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **One Day** workshop on “**Awareness on Digital India Initiative**”, held on 18<sup>th</sup> September 2018 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **Two Day** workshop on “**Linux and FOSS**”, held from 28<sup>th</sup> August 2018 to 4<sup>th</sup> September 2018 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **Three Day** workshop on “**Linux and FOSS**”, held from 8<sup>th</sup> August 2017 to 11<sup>th</sup> 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 21<sup>st</sup> July 2016 to 25<sup>th</sup> July 2016 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.
- **Member** of Organization Committee of a three day “**Rajatutsav**”, held during 6<sup>th</sup> February 2016 to 9<sup>th</sup> 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 8<sup>th</sup> March 2016 to 9<sup>th</sup> 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 18<sup>th</sup> August 2015 to 21<sup>st</sup> 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 24<sup>th</sup> March to 3<sup>rd</sup> 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 20<sup>th</sup> 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 20<sup>th</sup> August 2010 to 26<sup>th</sup> 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 14<sup>th</sup> April 2010 to 15<sup>th</sup> 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 16<sup>th</sup> 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 8<sup>th</sup> January 2010 to 9<sup>th</sup> 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).
- **Convener** of organization committee of a **Five-Day workshop** on “**Basic Computer Training**” for the new entrants of the college, held from 1<sup>st</sup> August 2009 to 5<sup>th</sup> August 2009 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.

<ul style="list-style-type: none"> <li>➤ <b>Member</b> of Organization Committee of a <b>Two-Day</b> workshop on “<b>Linux 09: Linux, FOSS &amp; Clustering</b>”, held from 3<sup>rd</sup> January 2009 to 4<sup>th</sup> January 2009 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.</li> <li>➤ <b>Member</b> of Organization Committee of a <b>One Day</b> workshop on “<b>Software Engineering</b>” for PGDCA students, held in August 2008 at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.</li> <li>➤ <b>Member</b> of Organization Committee of a <b>One Day seminar</b> on “<b>Advance computing</b>” on 4<sup>th</sup> March, 2008 at ANDC covering following areas: 1. “<b>History of Computing</b>” by Dr. R.K Datta, Former advisor DST, 2. “<b>Cyber Crime &amp; Terrorism</b>” by A.K. Mahapatra, Faculty IP University, 3. “<b>Bio-Informatics: An Introduction</b>” by Dr. A.R. Rao, Sr. Scientist, IASRI, Pusa, 4. “<b>Data Warehousing: An Overview</b>” by Dr. Anil Rai, Sr. Scientist, IASRI, Pusa.</li> <li>➤ <b>Member</b> of Organization Committee of a <b>One Day</b> seminar on “<b>Parallel Computing</b>” held on 17<sup>th</sup> December 2006 by Prof. Bhattacharya, Dept of Mathematics, IIT Delhi and “<b>Hot Careers in IT</b>” by NIIT Kalkaji, Delhi at Acharya Narendra Dev College, University of Delhi (DU), New Delhi.</li> </ul>
<b>Research Projects (Major Grants/Research Collaboration)</b>
<ul style="list-style-type: none"> <li>➤ Simulation of mid-point line algorithm using Python Tools, <b>Star Elite Project</b>, 2020-2021 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India.</li> <li>➤ Data Analysis &amp; Visualization of Rainfall and Floods in India, <b>Star Elite Project</b>, 2020-2021 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India.</li> <li>➤ Simulation of mid-point line algorithm using Python Tools, <b>Star Elite Project</b>, 2020-2021 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India.</li> <li>➤ Attendance Application: An Android App Development, <b>Star Elite Project</b>, 2019-2020 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India.</li> <li>➤ Creation of Online Repository of Ciliates of Delhi Region, India, <b>Star Elite Project</b>, 2019-2020 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India.</li> <li>➤ ANDCCCPC: ANDC Career Counseling and Placement Cell, <b>Star Elite Project</b>, 2018-2019 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India.</li> <li>➤ Online Recommender System, <b>Star Elite Project</b>, 2016-2017 in association with Department of Bio Technology, Ministry of Science and Technology, Government of India.</li> <li>➤ Movie Recommender System, <b>Elite Project</b>, 2015-2016.</li> <li>➤ Development of an All-In-One module for real time Agricultural Data Acquisition and Processing, AND 310, <b>Innovation Project, University of Delhi</b>, 2015-2016.</li> </ul>
<b>Awards and Distinctions</b>
-
<b>Association With Professional Bodies</b>
<ul style="list-style-type: none"> <li>➤ <b>Session Chair</b> during the International e-conference on ‘Mitigating environmental issues by sustainable approaches (<b>ICMCESA-2022</b>)’ organized by Acharya Narendra Dev College, DU from February 22-28, 2022 under the aegis of IQAC and DBT Star College Scheme.</li> <li>➤ <b>Session Co-Chair</b> during the International e-conference on ‘Mitigating environmental issues by sustainable approaches (<b>ICMCESA-2022</b>)’ organized by Acharya Narendra Dev College, DU from February 22-28, 2022 under the aegis of IQAC and DBT Star College Scheme.</li> <li>➤ <b>Resource person</b> for a 2 hours session on “<b>Canva: Online Graphics Designing Tool</b>”, on 3 March, 2022 in 30 hours online Add-On course on 'Information &amp; Communications Technology' held from 20th February-27th</li> </ul>

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.
- **Member**, Technical Program Committee in 2016 5<sup>th</sup> International Conference on Reliability, Infocom Technologies and Optimization (ICRITO), Trends and Future Directions, organized in association with **Computer Society of India (CSI)**, held on 7<sup>th</sup> September to 9<sup>th</sup> 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 14<sup>th</sup> April 2010 to 15<sup>th</sup> 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:

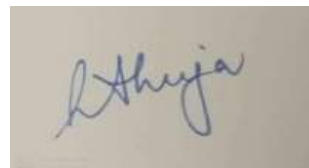
- Convener, **Career Counseling and Placement Cell** (2014-2016, 2016-2018, 2020 - Till Date)
- Member, **Career Counseling and Placement Cell** (2007-2008)
- Member, **Women Student Affairs Committee** (2007-2008, 2014-2016)

##### 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 26<sup>th</sup> 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 11<sup>th</sup> 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 18<sup>th</sup> Sep, 2017.
- As Member, Turing Society, organized a visit to **Open House, 2015 in IIT Delhi** on 18<sup>th</sup> 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](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](https://www.youtube.com/watch?v=5C_kiSCBZn8&t=37s)
    - v. [https://www.youtube.com/watch?v=x\\_B-pIVRON0](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](https://www.youtube.com/watch?v=zb89hZqbM_8)
    - iii. <https://www.youtube.com/watch?v=YpEyvDEyclo>
  - ✓ 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](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**