




Title	DR.	First Name	SUNITA	Last Name	NARANG	Photograph
Designation	Associate Professor					
Address	Department of Computer Science Acharya Narendra Dev College Govind Puri, Kalkaji, New Delhi-110019.					
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Educational Qualifications						
Degree	Institution				Year	
PhD	Faculty of Management Studies, DU				2013	
MCA	School of Computer & System Sciences, JNU				1997	
B.Sc. (H) Physics	Hindu College, DU				1994	
Career Profile						
<p>Dr. Sunita Narang is a diligent teacher with keen interest in understanding and learning new technologies. She holds doctorate degree in an inter-disciplinary area of Financial Derivatives from Faculty of Management Studies (DU). With over 21 years of teaching experience to her credit, she has presented papers at various seminars/conferences at national/international level. She started FOSS culture in college in the year 2007 and has been organizing workshops every year for newly admitted students and teaching/non-teaching staff of college. She was primary investigator in one and co-investigator in two, trans-disciplinary DU innovation projects which involved undergraduate students. For one of the project titled “Artificial Olfaction using e-nose – mimicking human nose for gas sensing applications”, she has been awarded Teaching Excellence Award for Innovation in the year 2015</p>						
Administrative Assignments						
At Department Level :						
<ul style="list-style-type: none">• Teacher-in-charge, Computer Science (2020-22)• Convener, Foss Club (2007-10, 2012-14, 2018-20)• TIC/Member, Admission Committee (2006-10, 2012-14, 20-22)• Convener/Member, Turing Society (2006-10, 12-14)• Convener/Member, Stock Verification Committee (2007-11)• TIC/Member, Mid-term Examination Committee (2006-10)• TIC/Member, Purchase Committee (2006-10)• Coordinator, Student AMC (2009-10)• Convener, Internal Assessment Moderation Committee (2007-09)• Teacher-in-charge, Computer Science (2007-09)						
At College Level :						
<ul style="list-style-type: none">• Member, IT Committee (2006-14,18-21)• Member, College Development Committee (2011-14, 18-20)• Convenor, IT Committee (2016-18)• Member, Environment Society (2016-18)• Member, Examination Committee (2014-16)• Member, Finance Committee (2014-16)						

- Member, Alumni Affairs Committee (2012-14)
- Member, Annual Events Committee (2008-10)
- Member, Website Development Committee (2008-10)
- Member, Social Outreach Programs Committee (2006-08)
- Member, Women Student's Affairs Committee (2006-08)

At University Level :

- Member, Syllabus revision committee, B.Sc Physical Science (2018)
- Member, Curriculum development committee, B.Tech (2012)
- Member, Curriculum development committee, PGDCA (2009)

Areas of Interest / Specialization

- Financial Derivatives,
- Asymmetric GARCH Models,
- Systems Software, Operating Systems(Linux) , Database Management Systems

Subjects Taught

At Post Graduation Level :

- Advanced Operating Systems (MCA)
- Computer System Architecture, Operating Systems (PGDCA)

At Under Graduation Level :

- Systems Software
- Operating Systems
- Theory of Computation
- Database Management System

Research Guidance

Publications Profile

Publications in Peer Reviewed Journals:

- Narang S. et al. (2021), 'Perception of Youth on Digital India', International Journal of Business Innovation and Research, 25(3), 365-388.
- Chowdhuri A., Narang S., et al. (2014), "Low cost 'Smart' switch for designing Electronic Nose (E-Nose) for gas sensing applications", Journal of Advanced Research in Electrical and Electronic Engineering (AREEE), 1(1), 35-37.
- Chowdhuri A., Narang S., et al. (2014), "Using mobile phones with android OS for measuring hazardous gas concentrations detected using Electronic Nose (E-Nose)", Journal of Advanced Research in Electrical and Electronic Engineering (AREEE), 1(1), 25 –27.
- Narang S., Vij M. (2013), 'Long-Term Effects of Expiration of Derivatives on Indian Spot Volatility', ISRN Economics, Article Id – 718538.
- Narang S., Vij M. (2013), 'Long-term impact of derivative trading on volatility of Indian capital market with special emphasis on crisis period', Global Journal of Finance and Management, 5(11), 44-49.
- Narang S., Bhalla V. K. (2012), 'Re-examining the Nifty returns after the first decade of derivative trading in Indian capital market using non-linear asymmetric GARCH models', International Journal of Innovations in Digital Economy, 3(4), 29-52.
- Narang S., Bhalla V. K. (2011), 'Risk-Return Trade-Off in Indian Capital Market During Last Two Decades with Special Emphasis on Crisis Period', Annals - Economic and Administrative Series, 5(1), 77-98.

Conference/ Presentations/Workshops

Conference Paper Presentations :

- A paper titled 'Biometric Attendance System' was presented at International Conference on "Development of Economies through Innovation & Sustainable Growth: Vision 2020" (IC-DEISGV – 2016) on 15-16 Oct, 2016 at IHM, Pusa, New Delhi in collaboration with International Association of Research & Development Organization.
- A paper titled 'Perception of Student Community on Digital India' was presented at National Seminar on "Make in India – Prospects and Challenges" on March 30, 2016 at Sri Guru Nanak Dev Khalsa College, University of Delhi.
- Presented a paper titled 'Long-Term impact of Derivative Trading on Volatility of Indian Capital Market with special emphasis on Crisis Period' in World Congress on 'Business, Finance, Marketing and Industrial Management for Sustainable Development' in May 2013.
- Presented a paper titled 'Risk-Return Trade-Off in Indian Capital Market During Last Two Decades with Special Emphasis on Crisis Period' in International Conference in Economics and Administration, ICEA 3-4 June 2011.

Conferences/FDP/Workshops/ Seminars Organized:

- Convener, organized a Webinar on "Role of IT in Indian Banking System" on 14th July, 2021. Speaker was Professor Madhu Vij, Former Professor in Finance, Faculty of Management Studies, University of Delhi, Delhi.
- Convener, organized Alumni Meet on 4th July, 2021 for Department of Computer Science.
- Coordinator, organized a webinar on 15th June, 2020, on the topic "Unraveling the Social Network of COVID-19 in India from 30th Jan. to 6th Apr. 2020". Speaker was Dr. Sarita Azad, Assistant Professor, School of Basic Sciences, IIT Mandi, Himanchal Pradesh.
- Convener, organized a four day (16-19 Sept, 2019) workshop on "Linux and FOSS" for first year students in college premises.
- Convener, organized a one day (18th Sept, 2018) workshop on "Awareness on Digital India Initiative" in college premises.
- Convener, organized a four day (28th Aug to 4th Sept 2018) workshop on "Linux and FOSS" for first year students in college premises.
- Convener, a three day (Aug 2017) workshop on "Linux and FOSS", for first year students in college premises.
- Convener, organized a one day (11th Apr 2016) Faculty Development Program on 'Digital India Initiative' in association with Centre for Development of Advance Computing, Pune, for Teachers, Academicians & Researchers.
- Convener, organized a four day (Aug, 2015) workshop on "FOSS & Linux Familiarization" for first year students in college premises.
- Member of organizing committee of a three day (Mar, 2014) "FOSS Familiarization" workshop for the students of first year FYUP course in association with Institute of Informatics and Communication, University of Delhi, South Campus, conducted in college premises.
- Convener, organized a four day (Dec, 2013) workshop on "IT Tools" for Non-Teaching staff in college premises.
- Convener, organized a three day (Sept, 2013) workshop on "Ethical Hacking" for students in college premises.
- Convener, organized a two day (Aug, 2013) workshop on "FOSS & Linux" for first year students in college premises.
- Member of organizing committee for one-day (2nd Feb, 2012) workshop on 'Foss and Linux using spoken tutorials' for students.
- Member of Organization Committee of a two day (13th Oct, 2011) workshop on "Spoken Tutorials on Latex" by IIT Mumbai" held in college premises.
- Convener, organized a two-day (Aug, 2011) workshop on FOSS for students.
- Member of Organization Committee of a one day (16th Apr, 2010) workshop on "Open Source Software (FOSS): Awareness & Possibilities" in South Campus, University of Delhi.
- Member of Organization Committee of a two day (14-15 Apr, 2010) workshop on "Application of Open Source Software in Science Teaching & Research" in association with NRCFOSS, Anna University Chennai in college premises.
- Convener, organized a two day (Jan, 2010) workshop on "Importance of FOSS in IT industry, career prospects, basics of kernel & its security, socket programming & JQuery", in college premises.

- Convener, organized a one day (Jan, 2009) workshop on “FOSS, OpenMoku and Ruby on rails” held in college premises.
- Convener, organized a five day (Jan, 2009) inter-college training and familiarization workshop on ‘Linux, Foss & Clustering’.

Conferences/FDP/Workshops/ Seminars/Refresher Course Attended :

- Two Week Faculty Development Programme on “Managing Online Classes & Co-Creating MOOCs (Level 2) under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Human Resource Development (MHRD) held from 02-16 June, 2021 conducted by 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” held from 14-20 December, 2020 conducted by Teaching Learning Centre, Ramanujan College, University of Delhi (DU), New Delhi in association with Department of Statistics & IQAC, Hindu College, University of Delhi, Delhi.
- One Week Faculty Development Programme on “Machine Learning in Research” under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Ministry of Human Resource Development (MHRD) held from 10-18 October 2020 conducted by Teaching Learning Centre, Ramanujan College, University of Delhi (DU), New Delhi in association with Department of Computer Science, RLA College, University of Delhi, 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 3-8 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.
- One day Faculty Development Program on “Teachers as mentors” conducted by Internal Quality Assurance Cell on 25th October, 2018 held in college premises.
- Two day workshop on ‘Introduction to Robotics’ conducted by Indian Institute of Technology, Mumbai at Cluster Innovation Center, University of Delhi, on 24-25 Sept, 2014.
- Three day hands-on workshop on ‘Technology Enabled Teaching-Learning’ held from 21-23 Nov, 2013 in college premises and prepared educational content.
- Two day Academic Congress titled ‘Enabling the young: Redefining Education’ by University of Delhi on 6-7 Sept, 2012.
- Refresher Course in Computer Science & Information Technology (30th Aug to 24th Sept 2010) from ASC, Jawaharlal Nehru University.
- Two day workshop (14-15 May, 2010) workshop on Recent Advances in Research Methods and Data Analytical Tools, at All India Management Association, Delhi.
- Freed.in, one-day (2009) conference at Jawaharlal Nehru University, Delhi.
- Refresher Course in Computer Science (10th Nov to 5th Dec 2008) from ASC, Jawaharlal Nehru University.

Research Projects (Major Grants/Research Collaboration)

1. Name : Digital India – Challenges & Opportunities

Position : Convener

Duration: 2015-16

Research Agency: University of Delhi

Grant: Rs. 3.5 Lakh

2. Name : Artificial Olfaction using e-nose – mimicking human nose for gas sensing applications

Position : Co-convener

Duration: 2013-14

Research Agency: University of Delhi

Grant: Rs. 5 Lakh

3. Name : CO₂ Gas Sensing - an ICT based investigation for pollution control

Position : Co-convener

Duration: 2012-13

Research Agency: University of Delhi

Grant: Rs. 10 Lakh

Awards and Distinctions

Teaching Excellence Award for Innovation (2014-15)

For DU Innovation Project “Artificial Olfaction using e-nose – mimicking human nose for gas sensing applications”.

Association With Professional Bodies

Life time membership of Computer Society of India

Other Activities

Guided students under following projects in Elite scheme of college:

1. E-student-Website for student resources (2016)
2. ELITE Student Assistant (ESA) – An Android Application to provide students with resources like notes, e-books, Guidelines and Question Papers (2016)
3. Departmental Student Information System (2015)
4. Information System for Alumni Database (2012)
5. Student portal development (2012)