




# CURRICULAM-VITAE



Title	<b>DR.</b>	First Name	<b>SUNITA</b>	Last Name	<b>NARANG</b>	Photograph
Designation	<b>Assistant Professor</b>					
Address	<b>Department of Computer Science Aacharya Narendra Dev College Govind Puri, Kalkaji, New Delhi-110019.</b>					
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<b>Educational Qualifications</b>						
Degree	Institution				Year	
<b>PhD</b>	<b>Faculty of Management Studies, DU</b>				<b>2013</b>	
<b>MCA</b>	<b>School of Computer &amp; System Sciences, JNU</b>				<b>1997</b>	
<b>B.Sc. (H) Physics</b>	<b>Hindu College, DU</b>				<b>1994</b>	
<b>Career Profile</b>						
<p>Dr. Sunita Narang (Assistant Professor) 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 attended/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 (2014-15).</p>						
<b>Administrative Assignments</b>						
<b>At Department Level :</b>						
<ul style="list-style-type: none"> <li>• Teacher-in-charge, Computer Science (2007-09)</li> <li>• TIC/Member, Admission Committee (2006-10, 2012-14)</li> <li>• TIC/Member, Mid-term Examination Committee (2006-10)</li> <li>• TIC/Member, Purchase Committee (2006-10)</li> <li>• Convener/Member, Stock Verification Committee (2007-11)</li> <li>• Convener, Internal Assessment Moderation Committee (2007-09)</li> <li>• Coordinator, Student AMC (2009-10)</li> <li>• Convener, Foss Club (2007-10, 2012-14, 2018-20)</li> <li>• Convener/Member, Turing Society (2006-10, 12-14)</li> <li>• Member, Alumni Affairs Committee (2011-14)</li> <li>• Member, Examination Committee (2014-16)</li> <li>• Member, Finance Committee (2014-16)</li> </ul>						
<b>At College Level :</b>						
<ul style="list-style-type: none"> <li>• Member, Social Outreach Programs Committee (2006-08)</li> <li>• Member, Women Student's Affairs Committee (2006-08)</li> </ul>						

<ul style="list-style-type: none"> <li>• Member, IT Committee (2006-12,18-20)</li> <li>• Member, College Development Committee (2010-14)</li> <li>• Co-convener, Annual Events Committee (2008-10)</li> </ul> <p><b>At University Level :</b></p> <ul style="list-style-type: none"> <li>• Member, Syllabus revision committee, B.Sc Physical Science (2018)</li> <li>• Member, Curriculum development committee, B.Tech (2012)</li> <li>• Member, Curriculum development committee, PGDCA (2009)</li> </ul>
<b>Areas of Interest / Specialization</b>
<ul style="list-style-type: none"> <li>• Financial Derivatives,</li> <li>• Asymmetric GARCH Models,</li> <li>• Financial Market Prediction</li> <li>• Operating Systems.</li> </ul>
<b>Subjects Taught</b>
<p><b>At Post Graduation Level :</b></p> <ul style="list-style-type: none"> <li>• Operating Systems</li> <li>• Computer System Architecture</li> <li>• Advanced Operating Systems</li> </ul> <p><b>At Under Graduation Level :</b></p> <ul style="list-style-type: none"> <li>• System Software</li> <li>• Operating Systems</li> <li>• Networks</li> <li>• Theory of Computation</li> <li>• Database Management System</li> </ul>
<b>Research Guidance</b>
<b>Publications Profile</b>
<p><b>Publications in Peer Reviewed Journals:</b></p> <ul style="list-style-type: none"> <li>• Narang S. et al. (2020), 'Perception of Youth on Digital India', International Journal of Business Innovation and Research.</li> <li>• 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.</li> <li>• 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.</li> <li>• Narang S., Vij M. (2013), 'Long-Term Effects of Expiration of Derivatives on Indian Spot Volatility', ISRN Economics, Article Id – 718538.</li> <li>• 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.</li> <li>• 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.</li> <li>• Narang S., Bhalla V. K. (2011), 'Risk-Return Trade-Off in Indian Capital Market During Last Two Decades</li> </ul>

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 four day (16-19 Sept, 2019) workshop on "Linux and FOSS" for first year students in college premises.
- Convener, organized a one day (18<sup>th</sup> Sept, 2018) workshop on "Awareness on Digital India Initiative" in college premises.
- Convener, organized a four day (28<sup>th</sup> Aug to 4<sup>th</sup> 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 (11<sup>th</sup> 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 (2<sup>nd</sup> Feb, 2012) workshop on 'Foss and Linux using spoken tutorials' for students.
- Member of Organization Committee of a two day (13<sup>th</sup> 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 (16<sup>th</sup> 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 :**

- 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 (30<sup>th</sup> Aug to 24<sup>th</sup> 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 (10<sup>th</sup> Nov to 5<sup>th</sup> 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)