



Faculty Details proforma for DU College Web-site



Title	Dr.	First Name	ANITA	Last Name	THAKUR	Photograph
Designation	Assistant Professor					
Address	Acharya Narendra Dev College, University of Delhi, Govindpuri, New Delhi – 110019					
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Web-Page						
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	University of Delhi				2014	
M.Sc.	University of Delhi				2010	
B.Sc. (Hons)	University of Delhi				2008	
Career Profile						
<p>Presently working as Assistant Professor in the Department of Botany at Acharya Narendra Dev College, University of Delhi. I completed Ph.D. form Department of Botany, University of Delhi in year 2014. The research work highlighted new information on the physiological and biomolecular events associated with seed development in sunflower. Some of the novel findings included: maximum ROS accumulation in young seeds coinciding with high metabolic activity, temporal expressions of ROS scavenging enzymes (SOD, POD and GR) were evident, differential modulation of PKC activity during seed maturation indicating the presence of „conventional“ type of PKC which seems to have calcium binding regulatory domain, proteomic analysis of oil body membrane proteins accompanying the onset of desiccation phase during sunflower seed development and physiological significance of PME during seeddevelopment.</p>						
Administrative Assignments						
<ul style="list-style-type: none">• Co convener Cultural Events Management Committee (2022).• Member College Cultural Committee (2015-20).• Member College Academic Events Committee (2015-20).• Member College Garden Committee.• Member of Botany Department Admission Committee•						

Areas of Interest / Specialization
<ul style="list-style-type: none"> • Plant Physiology of seed development • Biochemistry of various ROS Scavenging Enzyme and their role in seed germination and development • Plant Proteomics • Nitric oxide modulated plant development
Subjects Taught
<ul style="list-style-type: none"> • Archegoniate • Ethnobotany • Plant Physiology • Biochemistry • Biodiversity • Cell Biology • Genetics
Research Guidance
<ul style="list-style-type: none"> • Presently Supervising seven undergraduate students in two research projects under the ELITE (Education in a Lively, Innovative Training Environment Summer Fellowship) since April 2023. • Guided Undergraduate students under summer research program ‘ELITE’ (Education in a Lively, Innovative Training Environment Summer Fellowship) offered by College (2021-22). • Part of Innovation project in the year 2015-2016.
Publications Profile
<p><i>1. Research papers published in Refereed/Peer Reviewed Journals as First Author</i></p> <ul style="list-style-type: none"> • Thakur A and Bhatla SC (2014) A probable crosstalk between Ca²⁺, reactive oxygen species accumulation and scavenging mechanisms and modulation of protein kinase C activity during seed development in sunflower. <i>Plant Signaling and Behaviour</i>. • Thakur A and Bhatla SC (2015) Proteomic analysis of oil body membrane proteins accompanying the onset of desiccation phase during sunflower seed development. <i>Plant Signaling and Behavior</i>. <p><i>2. Other publications: Book Chapter/e-chapter (OER)</i></p> <ul style="list-style-type: none"> • Developed e-content entitled ‘Circadian Rhythms’ for undergraduate course, Lesson developed as e-resource in open education under section ‘Botany’ for MHRD project ‘National Mission on Education through Information Communication technology (NME-ICT)’ for Institute of Life Long Learning (e-book chapter) in year 2015.

- Developed e-content entitled ‘Plant Defence against Pathogens - I’ for undergraduate course, Lesson developed as e-resource in open education under section ‘Botany’ for MHRD project ‘National Mission on Education through Information Communication technology (NME-ICT)’ for Institute of Life Long Learning (e-book chapter) in year 2015.
- Developed e-content entitled ‘Plant Responses to Abiotic Stress - I’ for undergraduate course, Lesson developed as e-resource in open education under section ‘Botany’ for MHRD project ‘National Mission on Education through Information Communication technology (NME-ICT)’ for Institute of Life Long Learning (e-book chapter) in year 2015.
- Developed e-content entitled ‘Plant Responses to Abiotic Stress - II’ for undergraduate course, Lesson developed as e-resource in open education under section ‘Botany’ for MHRD project ‘National Mission on Education through Information Communication technology (NME-ICT)’ for Institute of Life Long Learning (e-book chapter) in year 2015.
- Developed e-content entitled ‘Hormone Action and Receptors’ for undergraduate course, Lesson developed as e-resource in open education under section ‘Botany’ for MHRD project ‘National Mission on Education through Information Communication technology (NME-ICT)’ for Institute of Life Long Learning (e-book chapter) in year 2015.

Conference / Presentations /Workshops

Oral Presentation

- Delivered an **ORAL PRESENTATION** on the paper titled " **Does Auxin and Melatonin Interaction Palliate Heavy Metal and Metalloid Toxicity in Plants?**" in the 'International e-Conference on Mitigating Contemporary Environmental Issues by Sustainable Approaches (ICMCESA-2022), organized Acharya Narendra Dev College, University of Delhi, 2022

Workshops Attended

- Successfully completed a **five-week-long (17/01/2022 to 21/02/2022) National Workshop on Statistical Analysis of Biological Data with grade A+**, organised by Department of Botany, Zakir Husain Delhi College, University of Delhi.

Resource Person at Workshops

- Resource person for the five-day hands-on workshop on “Laboratory Techniques in Botany”, held from October 21-26, 2021, organized under DBT Star College Scheme & IQAC by Acharya Narendra Dev College.
- Resource person for a three-day inter-college RBPT based workshop organized on Microbial Techniques, under the aegis of DBT Star College Scheme (2018).

- Resource person in a three-day workshop organized in collaboration with National Bal Bhawan, under the aegis of DBT Star College Scheme (2019).
- Resource person in a three-day intra-college RBPT based workshop organized on Microbial Techniques, under the aegis of DBT Star College Scheme (2017).
- Member of the organizing committee and participant in “International Symposium on Plant Signaling and Behavior 2014” held at Department of Botany, University of Delhi, New Delhi from 7-10 March, 2014.
- Participated in the “International Symposium on Plant Signaling and Behavior 2014” held at Department of Botany, University of Delhi, New Delhi from 7-10 March, 2014.
- Participated in the 'Indo-Italian Conference on Aromatic and Medicinal Chemistry, organized at University of Delhi, 2010.
- Participated in 7th Asia-Pacific Conference on Algal Biotechnology, held at Department of Botany, University of Delhi, 2009.

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

- President Delhi University Botanical Society (DUBS) 2012-13.
- Class representative M.Sc. Final (DUBS), 2009-2010.
- Class representative M.Sc. Previous (DUBS), 2009-2010.
- CSIR-JRF/Net (December, 2009, Rank- 220)
- Awarded the Runner up Team member in Professor B.M. Johri Shield Paper Presentation Competition 2009-2010.
- Awarded "Professor K.M.M. Dakshini Commemorative Medal-2008" for securing highest marks in Ecology in B.Sc. (Honours) Botany examinations 2008 of University of Delhi.
- President Botanical Society, Acharya Narendra Dev College, 2007-2008
- Class representative B.Sc. (Hons) Botany IIIrd Year, 2007-2008.
- Class representative B.Sc. (Hons) Botany IInd Year, 2006-2007.
- Class representative B.Sc. (Hons) Botany Ist Year, 2005-2006.

Association With Professional Bodies

Annual member of Delhi university Botanical Society (DUBS).

Other Activities

- Member of Programme committee in the 'International e-Conference on Mitigating Contemporary Environmental Issues by Sustainable Approaches (ICMCESA-2022), organized Acharya Narendra Dev College, University of Delhi, 2022.
- Member of the organizing committee and participant in “International Symposium on Plant Signaling and Behavior 2014” held at Department of Botany, University of Delhi, New Delhi from 7-10 March, 2014.

Enriching College Education

- Member of the team organizing the educational trip of Botany 2nd-year students to Dhanaulti, Uttarakhand in the academic year 2021-22.
- Member of the team organizing the educational trip of Botany 1st-year students to Mukteshwar, Uttarakhand in the academic year 2021-22.
- Member of the team which organized the educational trip of Botany and life science 2nd- year students to Tirthan, Himachal Pradesh in the academic year 2018 under the aegis of "Explore".
- Active member of the academic events committee of the college organizing the college orientation program for the freshly admitted undergraduate student (2015-22).
- Member of the core committee organizing the Annual Day (2015-22).
- Core committee member of the Cultural Events Committee organizing the Annual cultural fest of the college (2015-22).
- Member of the core committee organizing the **Annual Theatre Production** in consecutive academic years 2017 and 2018.
- Appointed as External examiner to conduct practical examination in different colleges by University of Delhi.

Dr. Anita Thakur
Signature of Faculty Member