

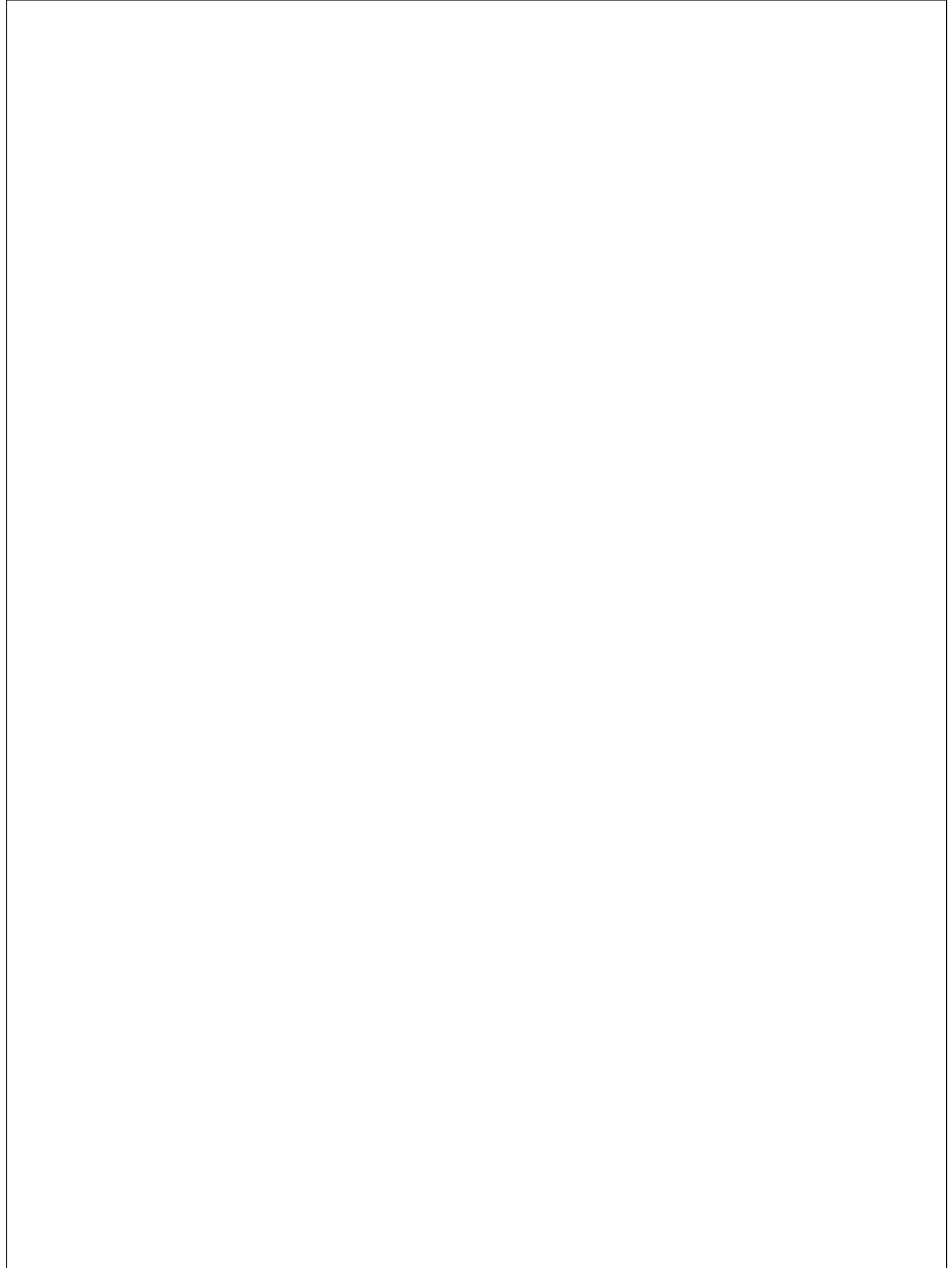


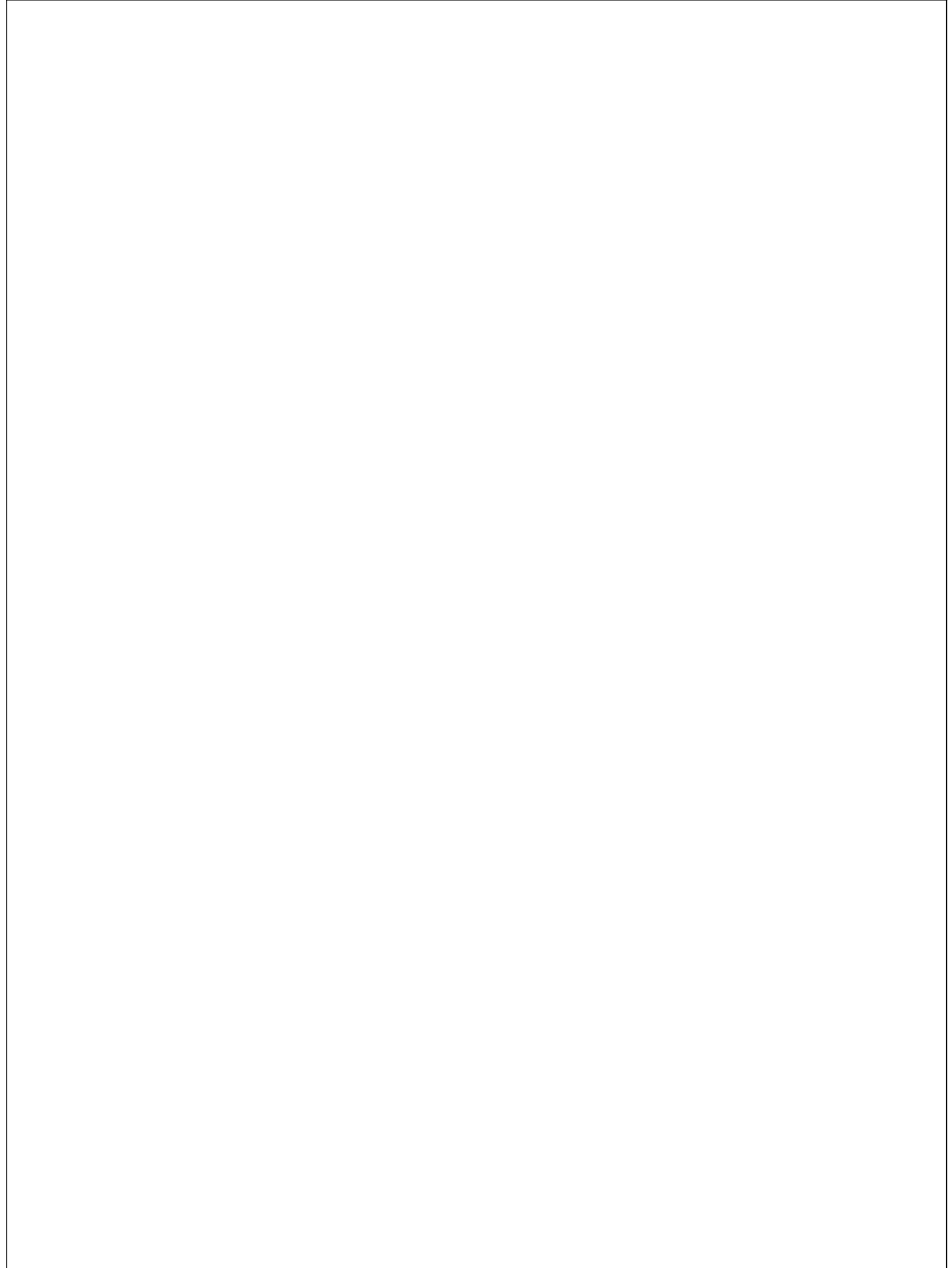
## Faculty Details proforma for DU Web-site

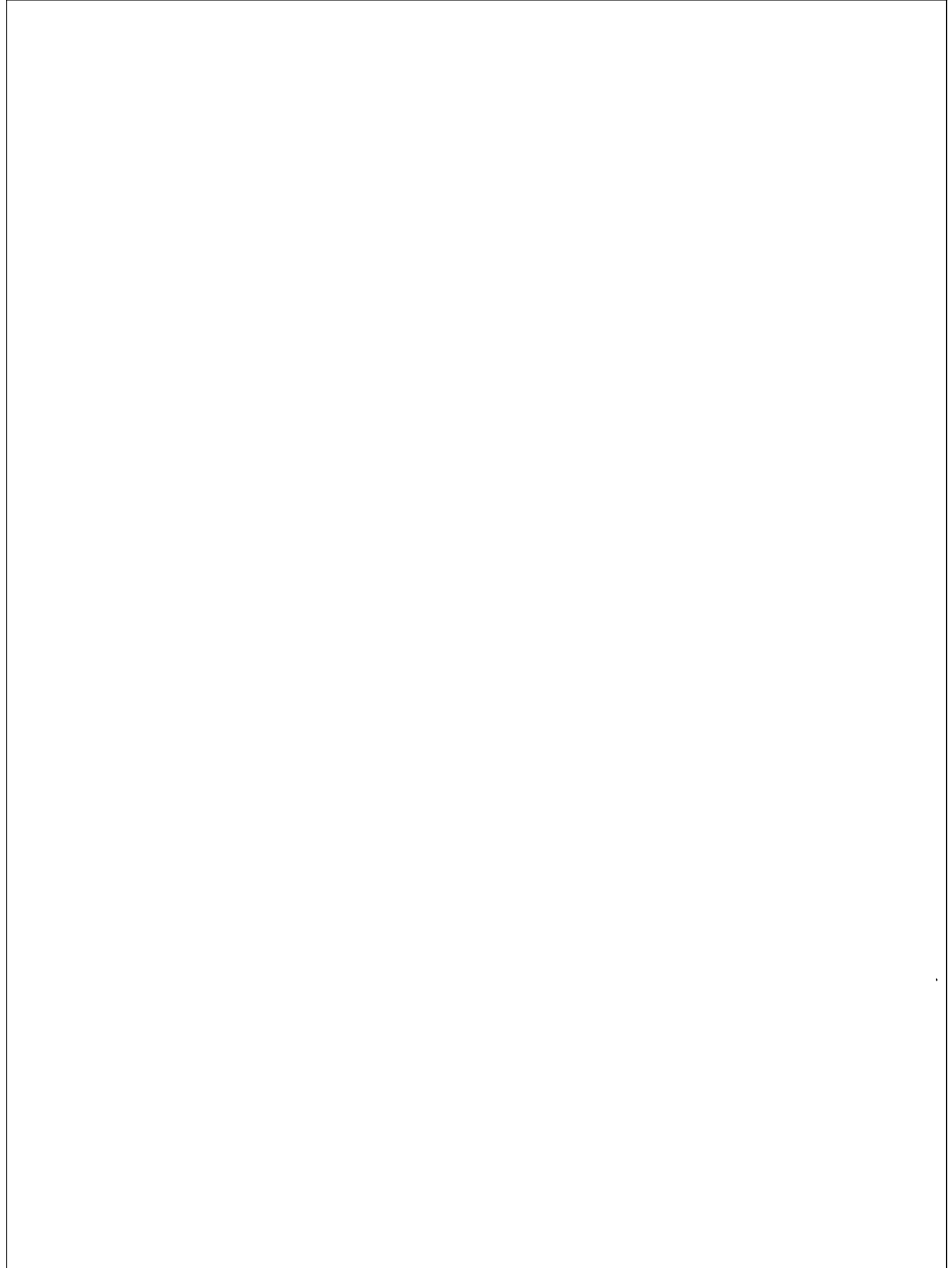
(PLEASE FILL THIS IN AND Email it to [websiteDU@du.ac.in](mailto:websiteDU@du.ac.in) and  
cc: [director@ducc.du.ac.in](mailto:director@ducc.du.ac.in))

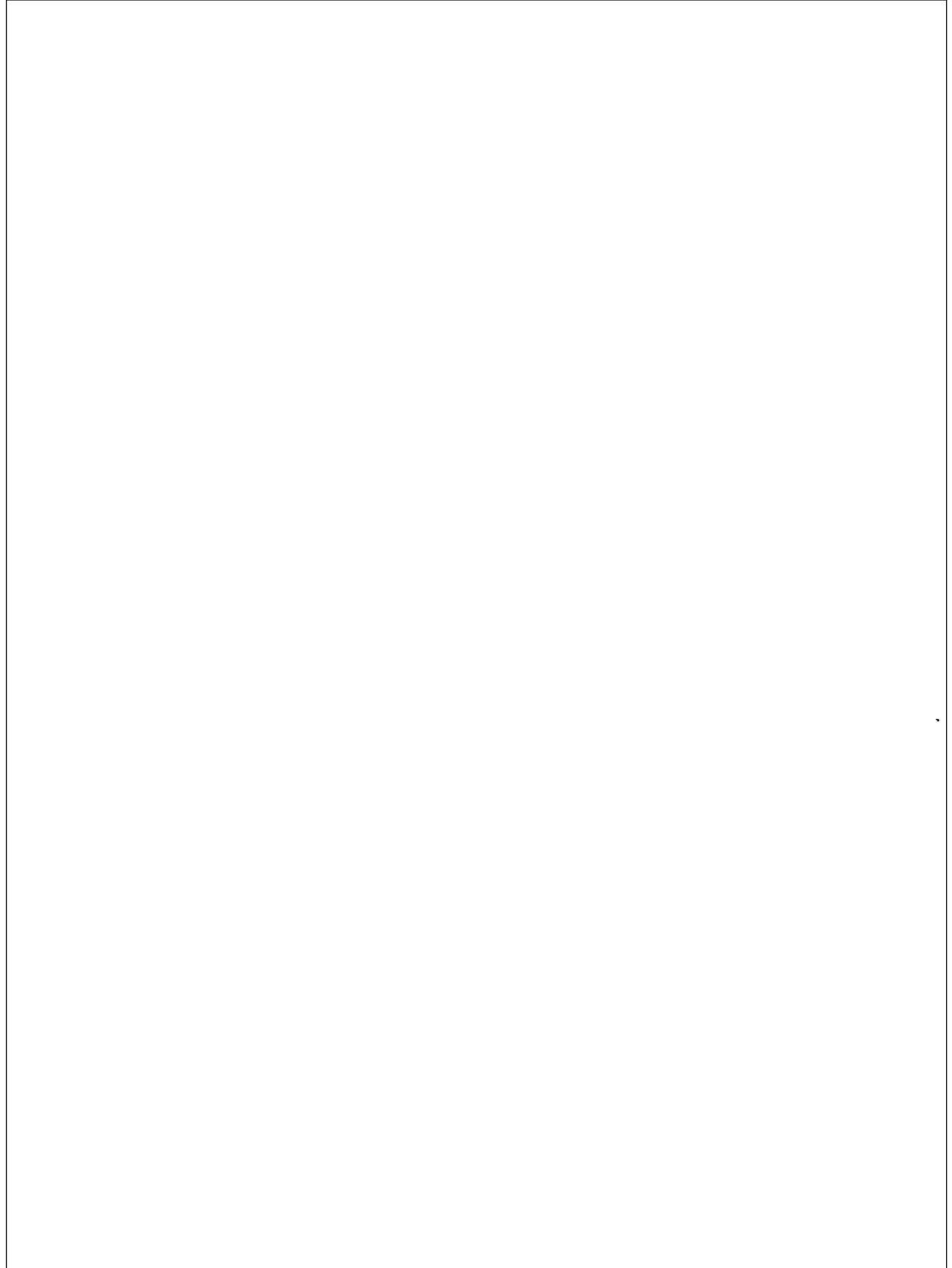
Title	Dr.	First Name	Suman	Last Name	Lakhanpaul	Photograph
Designation		Professor				
Address		EG-119,UGF, Inder Puri, New Delhi-110012				
Phone No Office						
Residence		011-25833341				
Mobile		9868375756				
Email		Sumanlp2001@yahoo.com				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		Delhi University			1989	
M.Phil. / M.Tech.		Delhi University			1983	
PG		Delhi University			1981	
UG		Delhi University			1979	
Any other qualification						
Career Profile						
Delhi University, Botany Department		Professor	2006-Till date	Teaching and Research		
Delhi University, Botany Department		Reader	2002-2005	Teaching and research		
NRC on DNA Fingerprinting, NBPGR, Pusa Campus, New Delhi-110012		Senior Scientist	1998-2002	Teaching and research		
National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi-110012		Scientist ( Senior scale)	1992-1998	Research		
National Bureau of Plant Genetic Resources, Pusa Campus, New Delhi-110012		Scientist S-1	1987-1992	Research		
Administrative Assignments						

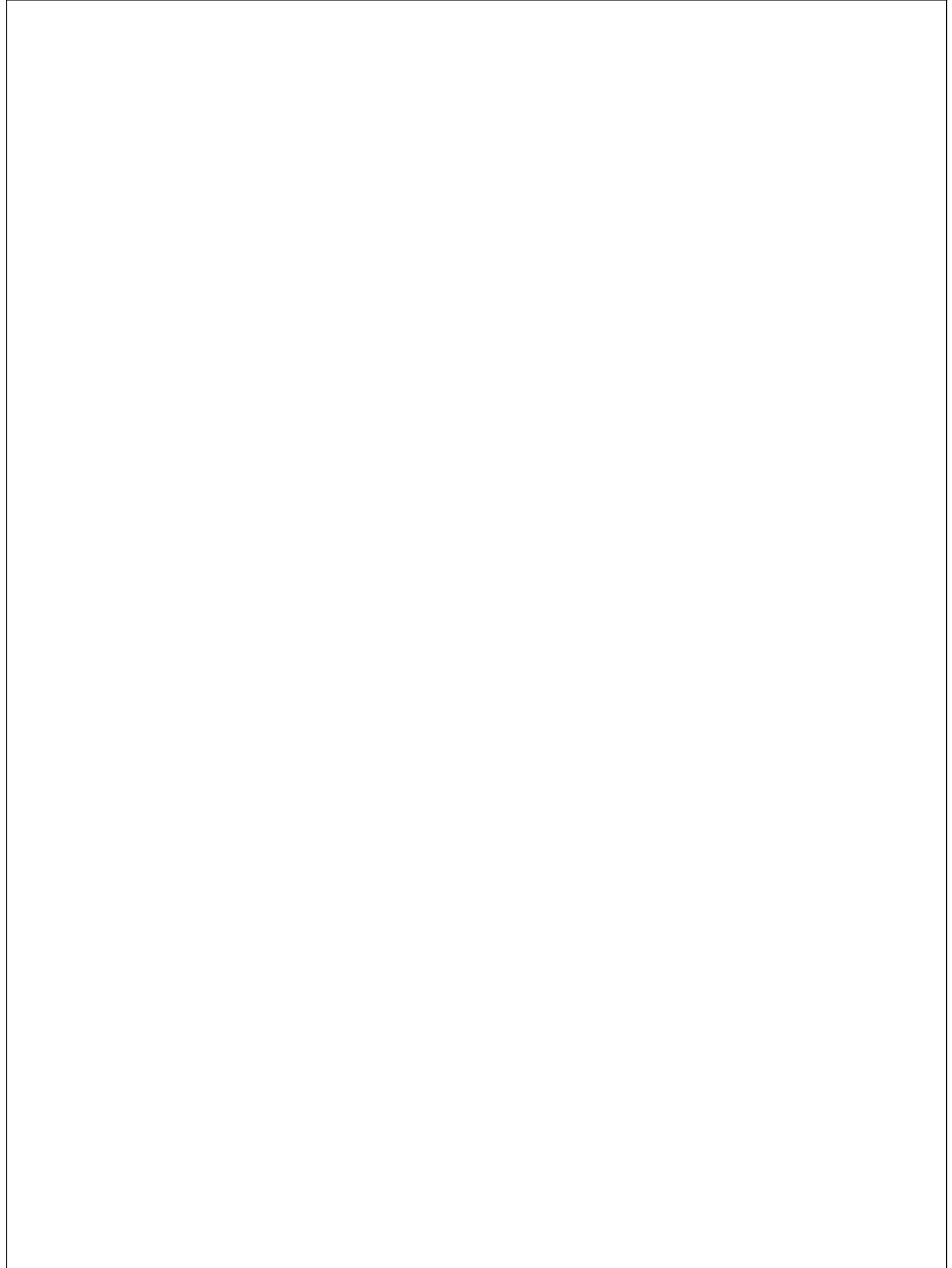
<b>Areas of Interest / Specialization</b>
Plant molecular genetics, Crop Genetics, Molecular analysis of biological diversity, Multipartner ( plant-insect-endosymbionts) interactions
<b>Subjects Taught</b>
Genetics, Molecular Genetics, Plant Anatomy, Genetics and Biotechnology of Crop plants, Biotechnology in management of Plant Genetic Resources
<b>Research Guidance</b>
<p>List against each head</p> <ol style="list-style-type: none"> <li>1. Supervision of awarded Doctoral Thesis- 9</li> <li>2. Supervision of Doctoral Thesis, under progress-4</li> <li>3. Supervision of awarded M.Phil dissertations- 8</li> <li>4. Supervision of M.Phil dissertations, under progress-nil</li> </ol>
<b>Publications Profile</b>
<p><i>List against each head(If applicable) (as Illustrated with examples)</i></p> <ol style="list-style-type: none"> <li>1. <i>Books/Monographs (Authored/Edited)</i></li> <li>2. <i>Research papers published in Refereed/Peer Reviewed Journals</i></li> </ol> <p style="text-align: center;"><b>RESEARCH PAPERS PUBLISHED IN REFEREED/PEER REVIEWED JOURNALS</b></p> <p style="text-align: center;"><b>( Last 10 years only)</b></p> <hr/> <ol style="list-style-type: none"> <li>1. V. Singh, S. Kumar and S. Lakhanpaul (2017) Differential distribution of phytoplasma during phyllody progression in oilseed crop sesame (<i>Sesamum indicum</i> L.) under field conditions - An important consideration for effective sampling of diseased tissue. Crop Protection DOI: 10.1016/j.cropro.2017.01.01</li> <li>2. . Vibhuti Singh, Sachin Kumar, N.S. Bharat Reddy, M K Naik, K. V. Bhat, Suman Lakhanpaul (2016) Devastation of sesame (<i>Sesamum indicum</i> L.) crops in different agroclimatic zones of India by genetically diverse subgroups of phytoplasma. Crop Protection 86: 24-30.</li> <li>3. Chakraborty, A., Mitra, J. Bhattacharyya, J. Sikdar,N., Chakraborty, S., Kumar S.,Lakhanpaul, S and Sen S.K. (2015) Transgenic expression of an unedited</li> </ol>











1. *Other publications (Edited works, Book reviews, Festschrift volumes, etc.)*

Conference Organization/ Presentations (in the last three years)

*List against each head(If applicable)*

*Participation as Paper/Poster Presenter ( Last five years only)*

1. Bhardwaj D, Lakhanpaul S and Tuteja N. (2012) wide range of interacting partners of pisum sativum gβ subunit suggests its significant multirole in signal transduction pathway. presented at International Conference on Plant Biotechnology for food security: New Frontiers held at NASC complex, Pusa Campus, during February 21-24,2012. .
2. Kumar S., Singh V. and Lakhanpaul S. (2014) Putative roles of selected OY-M phytoplasma effector proteins in plant hosts: A bioinformatics approach. Presented at International Symposium on Plant Signaling and Behavior, March 7-10, Department of Botany, University of Delhi, Delhi.
3. Bhardwaj D., Lakhanpaul S., Sharma S., Narayanan L. and Tuteja N. (2014) *Pisum sativum* G-protein beta subunit interacts with small pathogenesis-related cysteine rich protein to regulate stomatal functions. Presented at International Symposium on Plant Signaling and Behavior, March 7-10, Department of Botany, University of Delhi, Delhi.
4. Lakhanpaul, S., Singh,V. and Kumar, S. (2014) Understanding plant development from a new teacher-Phytoplasma: A bacterial pathogen that causes genetic reprogramming in plants. Presented at Botany 2014: New Frontiers in Botany, July 22-30, 2014, Boise, Idaho, USA
5. Mann N., Uniyal, P.L. and Lakhanpaul, S. (2014) Study on floral biology and phylogenetic analysis of *Viola* L. ( Violaceae) presented at III Global Congress “ Plant Reproductive biology, conservation and crop improvement held during December 15-17th, 2014, Agra, India.
6. Lakhanpaul, S., Singh,V. and Kumar, S. (2014) Understanding plant development from a



new teacher-Phytoplasma: A bacterial pathogen that causes genetic reprogramming in plants. Presented at Botany 2014: New Frontiers in Botany, July 22-30, 2014, Boise, Idaho, USA.

7. Malik S. and S. Lakhanpaul (2016) The need for resolving taxonomic ambiguities and the study of genetic diversity in *Barleria* - an underexploited medicinally important genus. Presented at National conference on Agrotechnology, Commerce and Sustainable use of medicinal and aromatic plants held during February 6-7, 2016 at NAASC, IARI, New Delhi.
8. A. Singh, R. Khongbantabam, V. Singh, S. Kumar and S. Lakhanpaul (2016) Diverse phytoplasma strain are associated with sesame (*Sesamum indicum*) phyllody in India. Presented at IPS 6<sup>th</sup> International Conference on Plant Pathogens and People, ICAR, New Delhi, held during 23-27 February, 2016.
9. S. Kumar, V. Singh and S. Lakhanpaul (2016) Differential ability of two nested-PCR primers (R16F2/R2n & fu5/rU3) for phytoplasma detection - A critical assessment. Presented at IPS 6<sup>th</sup> International Conference on Plant Pathogens and People, ICAR, New Delhi, held during 23-27 February, 2016.
10. Lakhanpaul, S. (2016) Unraveling Dawkins extended phenotype- Molecular mechanism for Phytoplasma induced developmental alterations in host plants. Invited talk IPS 6<sup>th</sup> International Conference on Plant Pathogens and People, ICAR, New Delhi, held during 23-27 February, 2016.
11. Vibhuti Singh, Sachin Kumar, Suman Lakhanpaul (2017) Investigations on the fastidious endophytic bacterial flora of *Catharanthus roseus* L. using PPLO culture method presented at International Conference and Outreach Program on “Environment & Ecology: Sustainability and challenges” 4– 6 January, 2017 held at Delhi University.
12. Sandeep Kaushik, Amit Vashishtha and Suman Lakhanpaul (2017) MLST profiling of *Wolbachia* associated with *Kerria lacca* (Kerr.) presented at International Conference and Outreach Program on “Environment & Ecology: Sustainability and challenges” 4 – 6 January, 2017 held at Delhi University.
13. Amrita Singh, Neetu Tyagi, KV Bhat and Suman Lakhanpaul ( 2017) Occurrence and

distribution of G-quadruplexes in the genomes of four phytoplasmas In INSCR International Conference – 2017 (IIC-2017) Theme: “Role of Microbe-Plant-Animal Interactions in Human Health” 26th -28th September, 2017, Delhi University.

**Research Projects (Major Grants/Research Collaboration)**

<b>Sl. No.</b>	<b>Title of Project</b>	<b>Funding Agency</b>	<b>Duration</b>	<b>No. of Scientists/ Associates</b>
1.	Studies on the genetic stability of cryopreserved germless under the Megaproject on “In vitro conservation and cryopreservation of important agri-horticultural crops”	Department of Biotechnology (DBT), Govt. of India	1987-1996	Seven
2.	Technology Development for DNA fingerprinting of pulses, oilseeds and fibre crops	Indian Council of Agricultural Research (ICAR), Govt. of India	1996 – 2002	Three
3.	Development of molecular markers for assessment of genetic diversity studies in sesame	Department of Science and Technology (DST), Govt. of India	1997-2000	One
4.	Validation of core collection of sesame using molecular markers	National Agricultural Technology Program (NATP)/ICAR	1999 – 2002	Three
5.	Genetic enhancement of crop species with particular reference to sesame and mungbean	NATP/ICAR	1999 – 2002	Five

6.	Biochemical and molecular characterization of the Lac insect host relationship	Department of Biotechnology (DBT), Govt. of India	2003 -2007	Two
7.	Program support on Restoration Ecology	Department of Biotechnology (DBT), Govt. of India	2005-2012	Four
8.	To understand the nature of diversity in lac insect and the nature of insect X host plant interaction	World Bank through National Agricultural Innovative Project (Indian Council for Agricultural Research)	2009-ongoing	Four
9	Relationship of Phytoplasma with its host plant and insect vectors	National Fund for Research in Basic Strategic and Frontier Research, ICA R	2103-ongoing	Two
10.	Detection and characterization of Phytoplasma affecting major floricultural crops of India	Extra mural Research Funding, Indian Council of Agricultural Research	2016-2017	Two
11.	Characterization and Epidemiology of Phytoplasmas Infecting Major Horticultural Crops	Extra mural Research Funding, Indian Council of Agricultural Research	2016-2017	Two

<b>Awards and Distinctions</b>
<p>Awarded NSTS (National Science Talent Search Scholar) Fellowship and availed the fellowship for the entire education period i.e. upto Ph.D.</p> <p>Secured 1st Position in college in B.Sc.</p> <p>Secured 2<sup>nd</sup> position at All India level in ARS (Agricultural Research Services) Examination (1985) held by UPSC (Union Public Service Commission), Govt. of India in the specialization- Genetics and Cytogenetics.</p> <p>Judged as Excellent Teacher and nominated for the Award of Best Teacher in IARI, (Deemed University)</p>
<b>Association With Professional Bodies</b>
<ol style="list-style-type: none"> <li>1. <i>Editing and Reviewing</i>– Involved with reviewing research publications with a number of national and international journals</li> <li>2. <i>Advisory-</i></li> <li>3. <i>Committees and Boards</i></li> <li>4. <i>Memberships-</i></li> <li>5. <i>Office Bearer</i></li> </ol>
<b>Other Activities</b>
<ol style="list-style-type: none"> <li>1. Resource person in the Training program on "<b><i>In vitro</i> and Cryopreservation Technology for Gene bank</b>" organized by INDO-USAID during 10-29, October. 1994.</li> <li>2. Resource person in the "<b>Regional Training Course on Seed Genebank Management</b>" sponsored jointly by the International Plant Genetic Resource Institute (IPGRI), Indian Council of Agricultural Research (ICAR), the Food and Agriculture Organization (FAO), the International Rice Research Institute (IRRI) and International Crop research Institute for Semi- Arid Tropics (ICRISAT) and organized by IPGRI in collaboration with NBPGR during 8-22 December, 1996.</li> <li>3. Organized and conducted training course on "<b>Biochemical and Molecular Techniques for Characterization of Plant Genetic Resources</b>", sponsored by USAID and ICAR, March 12-22, 1996, National Bureau of Plant Genetic Resources, New Delhi-110 012, India.</li> <li>4. Organized and conducted training programme "<b>Molecular Marker Techniques for DNA fingerprinting</b>" at NRC on DNA Fingerprinting, NBPGR, Nov 22-Dec. 18, 1999.</li> <li>5. Resource person for "Molecular genetic tools for analysis of genetic diversity in plant genetic resources." <b>International training program on "In vitro conservation and cryopreservation of plant germplasm, Principles and Practices"</b>. Sponsored by IPGRI, ICAR and FAO. October 12-25, 2000. NBPGR, New Delhi.</li> </ol>

6. Resource person for **“National symposium on Intellectual Property Rights and Indian Germplasm Resources: Emerging Challenges”** organized by Department of Biosciences, Jamia Millia Islamia, New Delhi, October 20-21, 2000.
7. Resource person for the **“Biotechnology & Intellectual Property Rights (IPR)”** in the Orientation cum Workshop on Plant Genetic Resources Management under the HRD component of NATP – Sustainable Management of Plant Biodiversity, NBPGR, Feb 27.2.2001 to 1.3.2001.
8. External faculty **“Molecular Genetics of Plant Biodiversity Assessment”** in the Workshop on Plant Biosystematics organized at Centre for Environmental Management of Degraded Ecosystems, School of Environment Studies. Delhi University, March. 2001.
9. Resource person **“Molecular Markers in characterization of Plant Genetic Resources”** in the Trainers Training on PGR management under the HRD component of NATP – Sustainable Management of Plant Biodiversity, NBPGR, March 2-21, 2001.
10. Co-course coordinator for training programme on **“PCR based techniques for plant DNA fingerprinting”** at NRC on DNA Fingerprinting, New Delhi.
11. Panelist and resource person in the **“Trainers Training program under HRD component of NATP subproject on sustainable Management of Plant Biodiversity”** held from 8-25 January, 2002 for the lecture **“Importance of DNA fingerprinting in changing IPR scenario”**.
12. Resource person for **Workshop on Biosystematics and conservation of plant diversity** held at CEMDE, Delhi University from January 15-24<sup>th</sup>. 2003.
13. Resource person for **Workshop on Biosystematics and conservation of plant diversity** held at CEMDE, Delhi University from March 1-10, 2004.
14. Resource person for **Workshop on Biosystematics** held at CEMDE, Delhi University from November 28<sup>th</sup> to December 13<sup>th</sup>, January 15-24<sup>th</sup>. 2004.
15. Member organizing Committee of **4<sup>th</sup> International Food Legume Research Conference (IFLRC-IV)** held in Indian Agricultural Research Institute ( IARI) from October 18-22,2005.
16. Resource person for **Workshop on Taxonomy and Bioprospecting** held at CEMDE, Delhi University from January 28<sup>th</sup> to February 6<sup>th</sup>, 2008.
17. Resource person for **Workshop on Taxonomy, reproductive Biology and Conservation** held at CEMDE, Delhi University from February 18-27<sup>th</sup>, 2009.
18. Resource person for **Workshop on Taxonomy, Ecology and Conservation** held at CEMDE, Delhi University from December 29<sup>th</sup> to January 7<sup>th</sup>, 2010.

19. Resource person in UGC sponsored 3-weeks "**Refresher Course on Environmental Studies – Emerging Trends in Sustainable Development**" held during January 7-28, 2013.

Signature of Faculty Member