

Research Activities of Department of Botanical & Environmental Sciences

(Updated June 2018)

- Year of establishment: 1990
- Faculty Strength: 9 + 1 [UGC-Emeritus Fellow]
- No. of PhD. Research Scholars: 40
- Botanical Garden (10 hectares) financially supported by Ministry of Environment, Forests & Climate Change under Assistance to Botanic Gardens Scheme.

Recognized by:

- (i) Department of Science & Technology (DST), Govt. of India under DST-FIST (Level-1) [90 lakh]
- (ii) University Grants Commission (UGC), New Delhi under DRS-1 [1.07 crore]

Thrust areas of Botany: Environmental mutagenesis, Chemical Ecology and Ecophysiology, Phytoremediation, Plant Growth Regulation, Genetic & Environmental Toxicology, Cancer chemoprevention, Plant Systematics, Bioactivities of Glucosinolates, Plant Tissue Culture, Biodiversity, Natural Plant Products, Vermitechnology, Plant Databases

Thrust area of Environmental Sciences: Water, Air & Soil Monitoring, Heavy Metal remediation, Electrochemical treatment, Environmental Toxicology, Industrial Wastewater Management, Solid Waste Management, Wastewater Treatment, Computer Applications in Ecology

Major Equipments:

1. Atomic Absorption Spectrophotometer (AAS)
2. ELISA Reader
3. Flame Photometer
4. Gas Chromatography-Mass Spectrophotometer (GC-MS),
5. Gel Documentation System
6. High Volume sampler (PM₁₀, PM_{2.5})
7. Infra Red-Gas Analyzer (IRGA)
8. Ion-selective Meter
9. Thermo-cycler
10. UV-Visible Spectrophotometer

Collaborations:

International:

1. Columbia University, New York, USA
2. University of Wisconsin, Madison, USA

National:

3. CSIR - Institute of Himalayan Bioresource Technology (IHBT), Palampur
4. CSIR-Indian Institute of Integrative Medicine (IIIM), Jammu
5. Indian Institute of Technology, Roorkee
6. Panjab University, Chandigarh
7. Punjabi University, Patiala
8. Thapar University, Patiala

Research Publications (2009-2018): 313 (as per SCOPUS database)