



## **About the Department**

The Department of Environmental Science came into existence in July 2009 and is running two P.G. courses namely M.Sc. Environmental Sciences, M.Sc. Environmental Biotechnology and a Doctoral programme in various fields of Environment viz. Biofuels, Bioremediation, Environmental Pollution, Remote sensing and GIS, Soil microbiology etc. The department is actively involved in research. The department is funded under DST-FIST programme and UGC- Innovative Programme. There are seven regular teaching faculty members and four supporting staff members.

## **Vision**

The department aspires to be recognized as leader in training competent technocrats and creating knowledge man power in various fields of Environmental sciences for the betterment of the environment and society.

## **Mission**

The Department of Environmental Sciences is committed to serve the society through the pursuit of environmental sustainability by innovative research, outreach to community and excellence in teaching

## **Strategic Goals**

- Providing education of the highest global standards.
- Developing technologies for management of the environment with thrust on local needs.
- Conducting basic and applied research in environmental sciences and biotechnology with a focus on identified areas with high local impact.
- Exposing students to practical aspects of environmental management.
- Acting in consultation with the community over the generation, dissemination and application of knowledge.

## **SWOC Analysis**

### **Strength**

- Permanent and dedicated faculty members.
- Excellent labs established for practicals.
- The teaching-learning process is enriched with ICT and multimedia systems.
- Collaborations with Indian Meteorological Department, Central and Haryana Pollution Control Board.

### **Weakness**

- Low course acceptability due to absence of teaching job opportunities at college level.
- Board of Studies don't have members from industry background.
- Lack of industrial linkages and consultancy work.
- Lack of faculty hindering teaching of elective subjects in choice based credit system.
- Majority students are local or from nearby rural places having poor academic record and communication skills.

### **Opportunities**

- To develop the department as a Centre of Excellence for quality teaching and extension services to produce dynamic and knowledgeable human resources.
- Proximity to Delhi can be exploited to ensure intake academically sound students.

### **Challenges**

- Creation of teaching job opportunities by ensuring the meaningful teaching of compulsory subject of environmental studies in UG courses by NET qualified/Ph.D. Environmental sciences candidates.
- Mushrooming of private universities in every nook and corner is leading to decline in student admission.
- Filling up the available admission capacity with good quality students.

### **Action Plan**

#### **Five year plan of the department to achieve the Strategic Goals:**

##### **2018-19**

- ✓ Effective implementation of CBCS by increasing choice of courses and strengthening of the teaching staff will be a continuous effort for next five years
- ✓ To gradually increase the Teaching and Learning by the ICTs through lesson preparation in ppt format, films and documentaries.

##### **2019-20**

- ✓ To improve the research facilities and standard through research projects financed by various agencies.
- ✓ To impart studies in the latest international trends and research in areas relevant to the local needs.

##### **2020-21**

- ✓ To establish thrust areas of research with industrial for local applications for meaningful R&D.
- ✓ To establish linkages with institutions for student exchange, training and research.

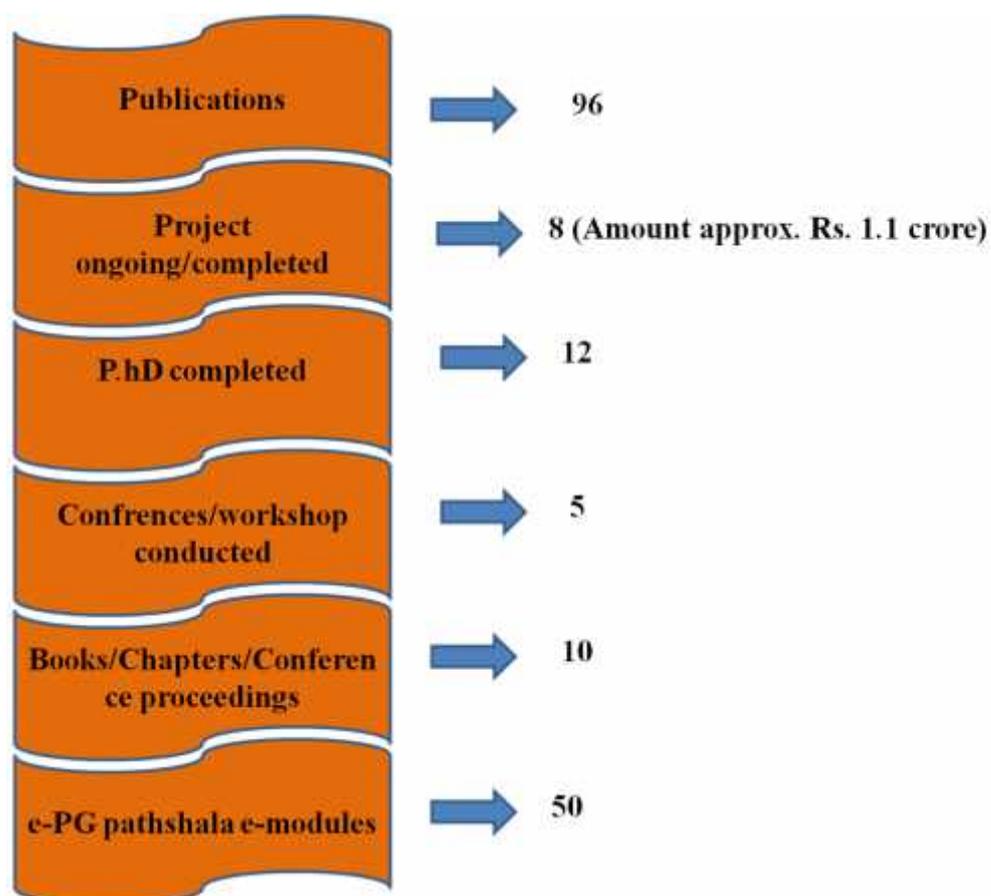
### 2021-2022

- ✓ Establishment of institute level waste water treatment facility to impart practical knowledge and create research facility.
- ✓ Establishment of institutional solid waste management facility to impart practical knowledge and create research facility.

### 2022-23

- ✓ To start PG Diploma in GIS and RS application in Environmental Sciences for employability
- ✓ To establish NABL accredited laboratory and initiate consultancy.

### Achievements of the Department in last five years



The Department of Environmental Science is an active partner (3 projects) of the All India Coordinator National Uranium Project (NUP) funded by Board of Research in Nuclear Science (BRNS), Bhabha Atomic Research Centre (BARC), Govt. of India.

# **THRUST AREAS OF THE DEPARTMENT OF ENVIRONMENTAL SCIENCE :**

## **➤ Environmental Management**

- Bioremediation
- Biodiversity Conservation
- Wetland Management
- Biofuels

## **➤ Environmental monitoring**

- Environmental Toxicology
- Pesticides monitoring
- Noise Pollution

## **Activity Calendar (2018-19)**

1. Induction programme for M.Sc (p) students Sep'18
2. Declamation will be organised on Teachers day Sep'18
3. International Day for the protection of Ozone layer will be held. 16<sup>th</sup> Sep'18  
(Quiz and Declamation will be organised)
4. Invited talks will be organised Oct'18
5. Educational Tour will be organised. Oct'18
6. Interdepartmental Sport activities Nov'18
7. National Workshop will be conducted. Nov'18
8. PhD Seminars (annual) will be conducted in the month of Jan'19
9. Pre -PhD Seminars will be conducted in the month of Jan'19
10. Wet land day will be celebrated, following awareness march. 1<sup>st</sup> Feb'19
11. Declamation and cultural activities on the occasion of Water Day 22<sup>nd</sup> Mar'19