

Energy and Environmental Sciences

The Department of Energy and Environmental Science (EES), Ch Devlal University is among first departments of the university established in 2003. The Department of Energy and Environmental Sciences (EES) is an important, interdisciplinary faculty in the University which aims at developing as a Centre of Excellence on issues pertaining to the relevant spheres supporting sustainable development of the country and emphasizing on improved Environmental Management and better health through imparting postgraduate education and research on various issues related to the Environmental Sciences. Along with Postgraduate degree, the department also offers M. Phil and Doctorate (Ph.D.) degree in research related to different fields of Environmental Sciences. The M. Tech (Environmental Engineering) program is proposed by the department.

The department is having well experienced faculty members trained in International laboratories in diverse fields of specialization ranging from Renewable Energy, Non-conventional Energy, Environmental Analytical Chemistry, Remote Sensing, Environmental Microbiology, Environmental Biotechnology, Environmental Impact Assessment (E.I.A.), Solid waste Management, Air Pollution, Environmental Modelling, Biopesticides, Biofertilizer etc. The Department organizes regular seminars and invited lectures round the year for the students. The students are promoted to speak on different topics, in order to harness their oratory skills and to create general awareness among them on different aspects of environmental issues. The Department is also actively involved in organizing special programs on current topics and issues in the field of environmental sciences from time to time. Department is proud to celebrate special days e.g. Ozone Day, World Environment Day, Wildlife-week, Renewable Energy day, Wetland Day, Earth Day etc from time to time. Students of the department regularly participate in the extra-curricular activities organized by the University.

The department has an innovative, dynamic and competitive course curriculum due to which several students of the department have qualified prestigious National examinations such as UGC-JRF+NET, UGC-NET, ICAR-ASRB, STET, GATE. The vision, mission and objectives of the department are to strive for excellence, to achieve sustainable development, to impart training for capacity building to tackle various environmental challenges in an ecofriendly manner, to offer professional and job oriented

course curricula, to strengthen R&D activities and to offer consultancy and extension activities. The faculty members are engaged in extensive research in the frontier areas of Environmental Sciences and Energy, with an aim to promote Lab to field approach. The Department also has good collection of Textbooks and Reference books in the Central library.

Profile of the Department

S.No	Name	Designation
1.	Dr Rani Devi	Asst. Prof.
2.	Dr. Anju Dalal	Asst. Prof.
3.	Dr. M. K. Kidwai	Asst. Prof.
4.	Mr. Pawan Rose	Teaching Associate
5.	Ms. Savita Verma	Teaching Associate

Programs

S. No.	Program	Intake
1	M.Sc. (Environmental Sciences)	40
2	Ph.D. (Environmental Sciences)	24
3	M.Tech (Environmental Engineering)	Proposed

SPECIALIZATION AREAS:

- Energy management
- Water Management
- Environmental Pollution Monitoring
- Environmental Impact Assessment
- Environmental Biotechnology
- Environmental Microbiology
- Environmental Analytical chemistry
- Biopesticides
- Biofertilizers
- Restoration of degraded areas
- Environmental Management
- Solid Waste Management
- Sustainable Development
- Trace Elements speciation

Laboratory facilities available in the Department:

- UV-VIS spectrophotometer
- Refrigerated High Speed cooling Centrifuge (Microprocessor based)
- BOD Incubators (Temp, Humidity, Light- micro processor based)(1)
- BOD Incubator
- Ovens (4)
- Digital Conductivity Meters
- PH Meters (Microprocessor based)
- Digital PH Meters
- EC Meter (Microprocessor based)
- EC-TDS analyser

- Laminar Flow (HEPA filters)
- Digital Colony Counter
- Induction motor
- Reciprocatory shaker
- Autoclave vertical
- Nephelometer
- Water bath precision (Shaking)(1)
- Water bath serological (Shaking)(2)
- Growth Chamber
- Quartz Water Distillation Unit
- Balance single Pan (Sartorius)
- Balance single Pan (citizen)
- Digital balance
- Freezers
- Microscope
- COD Digestion unit
- Magnetic stirrer
- Sound level meters
- Blender and Grinder
- Muffle furnace
- Flame photometer
- Portable Water testing kit
- Solarimeter
- Thermometer
- Hot plate
- Rotatory Shaker
- Kjeldhal Distillation and Digestion unit
- Computer lab
- LCD Projector
- Broadband Facility
- Laser Printer
- Micro Pipettes