



Charutar Vidyamandal's

# INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH

Top 3<sup>rd</sup> Rank Among All Colleges of Gujarat by KCG (GSIRF)

(Recognized by Section 2(f) & 12(B) of UGC Act by University Grant Commission, New Delhi)

(Accredited "A" Grade by NAAC & KCG)

## M.SC. ENVIRONMENTAL SCIENCE & TECHNOLOGY (EST)

Affiliated to CVM University, Vallabh Vidyanagar, Anand, Gujarat

### FASCINATING FEATURES

- The course provides knowledge, technical skills and competitive background not only in Ecological, and Environmental Science & Technology (EST), but also in Industrial Hygiene & Safety (IHS).
- Four semesters & Two Years Master Degree Program is offered.
- The program is flexible enough to fit in the interests and need of wide spectra of Industries, Consultancy, Academics, Research Institutes & various Organizations of Gujarat State as well as India in the field of Environmental Science, Pollution & Management, Hygiene & Safety.
- 10-12 weeks of Project / Dissertation work in frontiers of Environmental Science and Technology and Industrial Hygiene & Safety during 4th Semester.
- Certificate Course for 3-days on On-hand Instrumentation Training at Sophisticated Instrumentation Center for Applied Research & Testing (SICART) on GC-MS, ICPA, FT-IR, Environmental Testing Mobile Van during 4th Semester.
- 100% University Results with maximum number of First Class and Distinctions since inception of the course.
- Cutting-edge of research in frontiers of EST: Received funds for Major Research Projects from reputed National Funding Agencies such as MoEF, MoES, DST, UGC, FES, CCD, etc.
- Taught by highly skilled, well-experienced, well-qualified, and competent Faculties from Physical, Chemical, Biological & Natural Science aspects.
- Intake: 70 Seats

### COURSE CONTENT

#### Semester 1

- Environmental Biology & Restoration Ecology
- Air Pollution & Climate Change
- Water Pollution & Control Technology
- Environmental Chemistry & Geology
- Practical – Two Papers

#### Semester 2

- Remote Sensing & Geographic Information System
- Meteorological & Environmental Instruments
- Occupational & Environmental Toxicology\*
- Industrial Hygiene & Occupational Health\*
- Practical – Two Papers

#### Semester 3

- Environmental Biotechnology
- Environmental Impact Assessment & Legislation
- Industrial Safety & Control Technology\*
- Industrial Pollution & Control Technology\*
- Practical – Two Papers

#### Semester 4

- Waste Management & Control Technology
- Environmental Resources & Biodiversity Conservation
- Practical – One Paper
- Project Work / Dissertation

\* Indicates Courses related to Industrial Hygiene and Safety

### Eligibility for Admission

Bachelor of Science: Environmental Science, Botany, Zoology, Fire & Safety, Chemistry & Allied Sciences, Biochemistry, Biotechnology, Microbiology, Genetics, Bioinformatics, Geography, Geology, Physics, Biomedical – Lab Technician, B.Sc. Agriculture, B.Sc. Forestry, B.Sc. Home Science, Bachelor of Engineering, B. Pharm.

### Admissions From May

#### Absolute assistance in Campus Interview & Placements:

Majority of our students are employed in Industries, Consultancies, and Research Organizations in several parts of our country and abroad.

#### Employment Opportunities (Absolute Placement):

**In Industry:** As Environmental Auditors, Environmental Officers, ETP Supervisors, Consultants, Safety Officers, Hygienists, Scientist, Lab Supervisors, Scientific Officers, Lab Chemists, Field Supervisors, Plant Supervisor

**In Academics:** As Assistant Professors, Lecturers, Teachers

#### Memorandum of Understanding (MoU)

- National Institute of Advanced Industrial Science & Technology (AIST), Tsukuba, Japan
- Missouri University of Science & Technology (MST), Rolla, Missouri, USA
- Nandesari Industrial Association (NIA), Green Circle, Inc., Baroda
- Gujarat Institute of Desert Ecology (GUIDE), Bhuj (Kachchh)
- Vidyagar Nature Conservancy (VNC), GCPC, Gandhinagar, Govt. of Gujarat.

#### Unique Features

- Excellent Laboratory Facilities
- Seminars, Workshops, Industrial Visits, Study Trips, Summer Training
- Weekly Practice Test, Bridge Course, Competitive Exams
- Preparation for NET & SLET
- Field Sampling Techniques, Laboratory Analytical Methods
- Expert Talks, Guest Lectures, Ph.D. Program in Environmental Science & Biotechnology

Institute of Science & Technology for Advanced Studies & Research (ISTAR)

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