



# AMITY UNIVERSITY

## HARYANA

(Accredited with Grade 'A' by NAAC)

### ENVIRONMENTAL SCIENCES COURSE

Environmental Sciences course compulsory for all UG students and a minor specialization track in Environmental Science is offered for all UG students of the University.

#### A) Programmes Dedicated to Environmental Sciences: -

Sr No	Programme Name	Level	URL
1.	M.Tech. (Solar & Alternate Energy)	Post Graduate	<a href="https://www.amity.edu/gurugram/mtech-solar-and-alternate-energy">https://www.amity.edu/gurugram/mtech-solar-and-alternate-energy</a>
2.	M.Sc. (Renewable Energy)	Post Graduate	<a href="https://www.amity.edu/gurugram/msc-renewable-energy">https://www.amity.edu/gurugram/msc-renewable-energy</a>
3.	M.Tech (Atmospheric Technology and Climate Management)	Post Graduate	<a href="https://www.amity.edu/gurugram/mtech-atmospheric-technology-and-climate-management">https://www.amity.edu/gurugram/mtech-atmospheric-technology-and-climate-management</a>
4.	M.Sc. (Environmental Sciences and Management)	Post Graduate	<a href="https://www.amity.edu/gurugram/msc-environmental-sciences-and-management">https://www.amity.edu/gurugram/msc-environmental-sciences-and-management</a>
5.	B.Sc. (Hons) - Earth Sciences	Under Graduate	<a href="https://www.amity.edu/gurugram/bsc-hons-earth-sciences">https://www.amity.edu/gurugram/bsc-hons-earth-sciences</a>
6.	Ph.D. (Earth and Environmental Sciences)	PhD	<a href="https://www.amity.edu/gurugram/phd-earth-and-environmental-sciences">https://www.amity.edu/gurugram/phd-earth-and-environmental-sciences</a>

#### B) Minor Specialization Elective Track offer to all Under Graduate Programmes

Sl. No.	Track with details of courses	No of credits to be earned for getting a minor degree	Prerequisites if any
1.	<b>Climate Science</b> Semester 1- AST2151- Basics of Climate Science Semester 2- AST2251- Introduction to Earth System Science Semester 3- AST2351- Cloud Microphysics and Chemistry Semester 4- AST2451-Climate Change: Impact, Vulnerability and Adaption Semester 5- AST2551- Primer of Oceanography Semester 6- AST2651- Fundamentals of Climate Variability and Modeling	18	No prerequisites

2.	<b>Disaster Management &amp; Sustainable Built Environment</b> Semester 1-DSM2151-Introduction to Disaster Management Semester 2-DSM2251-Resilience Building for Built Environment Semester 3-DSM2351-Emergency Management Semester 4-DSM2451-Rehabilitation Reconstruction and Recovery Semester 5-DSM2551-Climate Change Adaptations and Sustainable Development Semester 6-DSM2651-Geoinformatics in Disaster Management	18	No prerequisites
3.	<b>Environmental Management</b> Semester 1- ENV2151- Environmental Studies-I * Semester 2- ENV2251- Environmental Studies-II * Semester 3- ENV2351-Environmental Pollution and Waste Management Semester 4- ENV2451-Environmental Management and Industrial Safety Semester 5- ENV2551-Environmental Economics and Globalization Semester 6- ENV2651-Sustainable Development Practices	12 (Available from Sem-3, Total Credits: 12) * Environmental Studies is mandatory for all undergraduate courses and is taught in three different schemes during first year	No prerequisites
4.	<b>Environmental Health &amp; Climate</b> Semester 1-AST2152-Linkages between Environment and Health Semester 2-AST2252-Climate Change and Implications on Public Health Semester 3-AST2352-Diseases in Contemporary Society Semester 4-AST2452-Air, Water and Soil Pollution, Environmental Health Professions Semester 5-AST2552-Ground-based and Satellite Remote Sensing Semester 6-AST2652-Instrumentation Lab	18	No prerequisites
5.	<b>Polymer Technology</b> Semester 1-PTE2151- Polymerization Semester 2-PTE2251-Waste Plastic Recycling Semester 3-PTE2351-Polymer Technology Semester 4-PTE2451- Rubber &Tyre Technology Semester 5-PTE2551-Polymeric Nano Composites Semester 6-PTE2651-Bio-Medical Plastics	18	Physics, Chemistry, Maths/Biology in class 12 <sup>th</sup>
6.	<b>Renewable Energy</b> Semester 1-SAE2151- Renewable Energy Conversion Systems Semester 2-SAE2251- Introduction to Solar Thermal Engineering Semester 3-SAE2351- Introduction to Solar Photovoltaic Semester 4-SAE2451-Energy from Wastes Semester 5-SAE2551- Renewable Energy for Heat Applications Semester 6-SAE2651- Energy Audit and Energy Management	18	No prerequisites

**C) Compulsory Course for all Under Graduate Programme:-**  
Environmental Studies is mandatory for all undergraduate courses and is taught in three different schemes during first year.

[https://www.amity.edu/gurugram/naac/1.3.2%20value\\_added\\_courses\\_manual/1.3.2%20value\\_added\\_courses\\_manual/environmental%20studies%20-%20syllabus%202018%20\(all%20ug\).pdf](https://www.amity.edu/gurugram/naac/1.3.2%20value_added_courses_manual/1.3.2%20value_added_courses_manual/environmental%20studies%20-%20syllabus%202018%20(all%20ug).pdf)