

Sustainability courses offered specifically on Climate Change and/or Environmental Sustainability

Department of Energy & Environment			
Course Title	Course code	Level of Teaching (UG/PG)	Credits
Energy and Environment	UEN002	UG I	2
Technologies for Sustainable Development	UEN004	UG II/III/IV	2
Elements of Environmental Sciences	PES116	PG I	4.5
Air Quality Modelling and Climate Change	PES111	PG I	4.5
Wastewater Treatment Technologies	PES117	PG I	4.5
Solid and Hazardous Waste Management	PES208	PG I	4.5
Water Quality Modelling and Treatment	PES206	PG I	4.5
Air Pollution Control Engineering	PES205	PG I	4.5
Environmental Legislation and Impact Assessment	PES225	PG I	3.5
Environmental Safety and Management	PES213	PG I	3.5
Industrial Pollution Abatement	PESXXX	PG I	3
Sustainability and Cleaner Technologies	PES216	PG I	3
Watershed Management	PES223	PG I	3
Energy and Environment	PESXXX	PG I	3
Sanitation and Public Health	PESXXX	PG I	3
Sustainable Materials and Green Buildings	PES219	PG I	3

Environmental Biotechnology	PESXXX	PG I	3
Contaminant Transport	PESXXX	PG I	3

L M Thapar School of Management (LMTSM)			
Title	Course Code	Level of Teaching (UG/PG)	Credits
Sustainability in Practice - I	SM6306	PG	3
Sustainability in Practice - II	SM6307	PG	3
Social and Commercial Entrepreneurship – I	ET5101	PG	1
Social and Commercial Entrepreneurship – II	ET5102	PG	1
Social and Commercial Entrepreneurship – III	ET5103	PG	1

LMTSM offered to Thapar School of Liberal Arts and Science (TSLAS)			
AVANI 01: Frame a Problem	PC1301	UG	3
AVANI 02: Design a Solution	PC1302	UG	3
AVANI 03: Enterprise the Solution 2.0		UG	2
AVANI 04: Responsible Citizenship Experience 4.0		UG	4
Sustainability and Business Ethics	TM3403	UG	4

TSLAS			
Title	Course Code	Level of Teaching (UG/PG)	Credits
Ecology and Environment	NP1202	UG-I	2
Society and Sustainability	NP1209	UG-I	2

Socio-ecology and Sustainability	TS1403	UG-I	4
Extreme Environments and Biomimicry	NP1403	UG-I	4
Elements of Environmental Sciences	NE2401	UG-II	4
Air Quality Analyses (Lab Course)	NE2201	UG-II	2
Air Pollution and Climate Change	NE2402	UG-II	4
Sustainable Development: Issues and Challenges	NE2403	UG-II	4
Project-based Learning Course-1	NE3303	UG-III	3
Water Pollution and Treatment Technologies	NE2351	UG-II	3.5
Air Pollution Control Technologies	NE2352	UG-II	3.5
Solid Waste Management	NE4404	UG-IV	4
Soil and Water Quality Analyses (Lab Course)	NE2202	UG-II	2
Project-based Learning Course-2	NE3303	UG-III	3
Urban Ecology	NE2301	UG-II	3
Soil Biology and Biochemistry	NE2302	UG-II	3
Biomimetics and Sustainable Design	NE3401	UG-III	4
Environmental Legislation and Impact Assessment	NE2404	UG-II	4
Agriscape Management	NE3403	UG-III	4
Natural Resources: Conservation and Management	NE3351	UG-III	3
Cleaner Production and Sustainable Technologies	NE3404	UG-III	4
Restoration Ecology and Technologies	NE3405	UG-III	4
Smart Cities and Urban Planning	NE3406	UG-III	4
Biodiversity Conservation	NE3407	UG-III	4
Environmental Engineering	NE3402	UG-III	4
Environmental Hazards and Disasters	NE4401	UG-IV	4
Environmental Monitoring and Management	NE4403	UG-IV	4

Environmental Chemistry	NE4404	UG-IV	4
Environmental Biotechnology	NE4405	UG-IV	4
Ecological Economics	NE4406	UG-IV	4
Environmental Ethics and Philosophy	NE4407	UG-IV	4
Participatory and Community Project Course/Dissertation (Starts)-[Seminars]	NE4601	UG-IV	6
Participatory and Community Project Course/Dissertation (Ends)-[Final Presentation]	NE4601	UG-IV	6

Civil Engineering Department

Sustainable And Smart Materials	UCE837/UCE854	UG	3.5
Design Of Smart And Sustainable Public Utilities	UCE853	UG	3.5
Environmental Legislation And Impact Assessment	UCE612	UG	3.5
Structural Materials	PCE104	PG	4.0
Infrastructure Planning And Management	PIN102	PG	2.0
Environmental Legislation And Impact Assessment	PES225	PG	3.5
Smart Materials And Structures	PIN114	PG	4.0

Mechanical Engineering Department

Renewable Energy Systems	UME839	UG	3.5
Fuel Cell Technology	UME727	UG	3.5
Electric And Hybrid Vehicles	UME858	UG	3.5
Solar Energy Engineering	UME853	UG	3.5

Chemical Engineering Department

Industrial Pollution Abatement	UCH503	UG	4.5
--------------------------------	--------	----	-----

Biotechnology Department			
Environmental Biotechnology	UBT822	UG	4.0
Bioremediation Technology	PBY213	PG	3.0
Food Technology	UBT842	UG	4.0

Electrical and Instrumentation Engineering Department			
Smart Grid for EVs	PEVXXX	PG	3.0
Battery Management Systems	PEVXXX	PG	4.0

Courses lead to Degree:

- B.E/B.Tech - all degrees
 - M. Tech in Environmental Science and Technology - <https://see.thapar.edu/programmes>
 - M. Tech in Biotechnology - <https://btd.thapar.edu/programmes>
 - M. E in structural engineering - <https://ced.thapar.edu/programmes>
 - M. E in Infrastructure - <https://ced.thapar.edu/programmes>
 - B.Sc. Major in Environmental Sustainability - <https://tslas.thapar.edu/academicdetails/bsc>
 - M. A. in Environmental Studies - https://international.tau.ac.il/ma_environmental_studies + <https://lmtsm.thapar.edu/internationalcollaboration/>