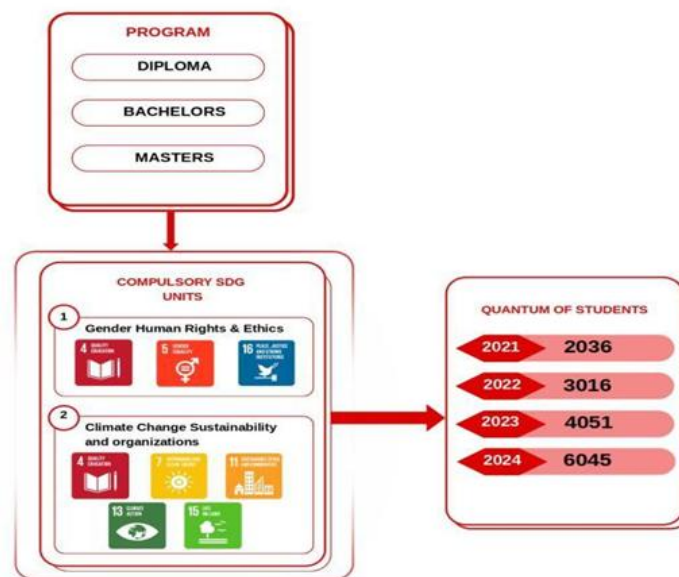


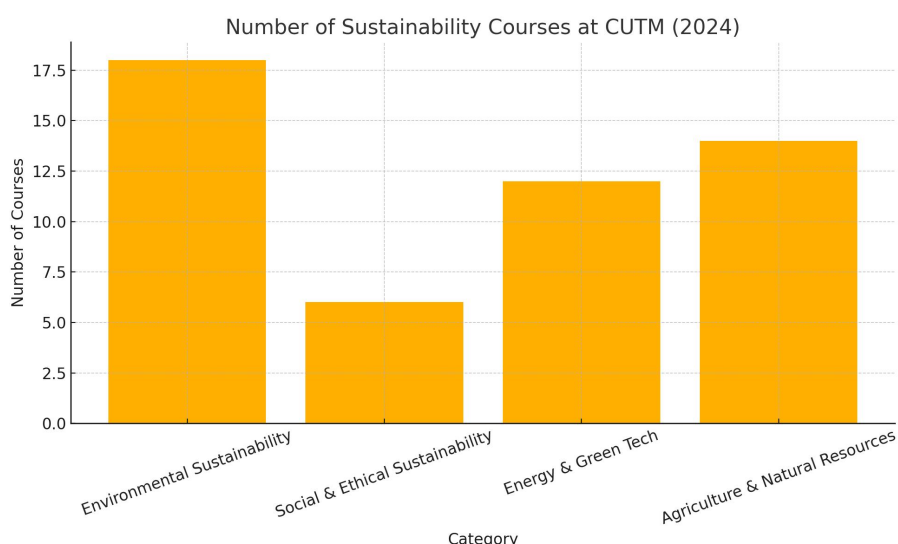
Education for SDGs specific courses on sustainability

The National Education Policy 2020 emphasises a transformation of higher education in India, guiding institutions to adopt comprehensive, multi-disciplinary, skill-integrated, and socially responsive curricula that prepare learners not just for employment, but for citizenship in a rapidly changing world. In tandem, the University Grants Commission mandates that higher education institutions embed education for sustainable development (ESD) as a core component of curricula, teaching-learning-processes and institutional practices, so that learners acquire the knowledge, skills, values and behaviours needed to promote sustainable development—including in the social, environmental and economic domains.

In this context, Centurion University has positioned sustainability education at the heart of its institutional model. By offering SDG-centred courses, skill-integrated programmes, multi-disciplinary specialisations and community-engagement frameworks across its multiple campuses, CUTM operationalises the NEP 2020 vision and UGC mandate to ensure that learners from varied disciplines and levels acquire the knowledge and skills to promote sustainable development (inclusive of the global, the local, the present and the future).



This report presents an overview of Centurion University’s sustainability education offerings: its curriculum structure, specialisations, teaching-learning strategies, capacity-building initiatives, student engagement and institutional frameworks that align with the Sustainable Development Goals (SDGs) and global citizenship imperatives. It also demonstrates how these offerings reflect the institution’s commitment to transformative teaching and learning for the SDGs, in line with Target 4.7 of the SDG framework and the broader NEP 2020 and UGC mandates.



Sustainability-Linked Foundation Courses for 1st-Year Students

These courses build social, environmental, economic, ethical and cultural sustainability awareness among all new students:

Course Title	Sustainability Dimension
Environmental Science	Environmental Sustainability, SDGs, Climate, Ecology
Climate Change & Sustainable Development / Sustainability & Organisations	SDGs, Climate Action, Responsible Citizenship
Gender, Equity & Inclusive Society (<i>sometimes titled Gender Studies / Gender & Society</i>)	Gender Equality, Human Rights, SDG 5
Ethics & Human Values	Ethics, Moral Responsibility, Peace & Social Sustainability
Human Rights and the Constitution of India	Social Justice, Equality, Democratic Citizenship
Universal Human Values (UHV)	Value-based Behaviour, Harmony & Well-Being
Community Engagement / Social Service / NSS / Service-Learning	Community Sustainability, Social Impact, SDG-linked Action
Health, Hygiene & Well-Being	Personal & Public Health Sustainability
Environmental, Social & Governance (ESG) Foundations (<i>if offered as elective</i>)	Responsible Management, Sustainability Reporting
Indian Knowledge System (IKS) & Sustainable Living Practices	Traditional Sustainability Practices, Culture & Harmony
Professional Ethics & Social Responsibility	Workplace Ethics, Responsible

Course Title	Sustainability Dimension
	Leadership, SDG-aligned Work Culture
Peace Education / Conflict Resolution	Social Cohesion, Harmony, Sustainable Societies
Disaster Management (basic)	Resilience, Climate & Disaster Risk Reduction

Courses Versus Schools offering:

Course (Code)	School(s) offering
Environmental Sciences (BPHT1206)	School of Pharmacy & Life Sciences.
Environmental Science (CUTM1010)	School of Engineering & Technology; School of Agriculture & Bio-Engineering; School of Vocational Education & Training; School of Paramedics & Allied Health Sciences; School of Forensic Sciences; School of Applied Sciences; School of Maritime Studies.
Environmental Science & Disaster Management (ASES3101)	M.S. Swaminathan School of Agriculture.
Climate Change, Sustainability & Organisations (CUTM1015)	School of Engineering & Technology; School of Management.
Introductory Agrometeorology & Climate Change (ASAG1202)	M.S. Swaminathan School of Agriculture.
Meteorology, Climatology & Geography (FSEM1101)	M.S. Swaminathan School of Agriculture.
Natural Resource Management (CUTM1243)	School of Management.

Course (Code)	School(s) offering
Environmental Biotechnology Lab (CUTM1646)	School of Forensic Sciences.
Environmental Biotechnology (CUTM1646)	School of Forensic Sciences.
Waste Disposal & Pollution Abatement (CUTM1166)	School of Engineering & Technology.
Solid Waste Management (CUTM3102)	School of Vocational Education & Training
Sewerage Treatment – Plant Operation (CUTM3101)	School of Applied Sciences
Industrial Pollution & its Management (CUTM1419)	School of Vocational Education & Training; School of Applied Sciences.
Principles of Ecology (CUTM1499)	School of Applied Sciences; School of Forensic Sciences.
Advances in Plant Ecology (CUTM1434)	School of Applied Sciences.
Plant Ecology & Phytogeography (CUTM1463)	School of Applied Sciences.
Plant Systematics (CUTM1464)	School of Applied Sciences.
Systematics & Diversity of Plants (CUTM1431)	School of Applied Sciences.
Marine Biology (FSEM1205)	M.S. Swaminathan School of Agriculture.
Public Health Microbiology (CUTM1740)	School of Paramedics & Allied Health Sciences.

Course (Code)	School(s) offering
Toxicology / Eco-toxicology (CUTM1420)	School of Applied Sciences.
Mine Environment & Hazards (CUTM1107)	School of Vocational Education & Training; School of Engineering & Technology.
Coastal Zone Management (FSEM3108)	M.S. Swaminathan School of Agriculture.
Problematic Soils & Their Management (ASAC3103)	M.S. Swaminathan School of Agriculture.
Aquatic Ecology, Biodiversity & Disaster Management (FSEM2106)	M.S. Swaminathan School of Agriculture.
Soil & Water Chemistry (FSEM1102)	M.S. Swaminathan School of Agriculture.
Water & Soil Quality Management in Aquaculture (CUTM1443)	School of Applied Sciences.
Aquatic Pollution (FSEM3207)	M.S. Swaminathan School of Agriculture.
Fish By-products & Waste Utilization (FSPT3207)	M.S. Swaminathan School of Agriculture.
Renewable Energy & Green Technology (ASAE2203)	M.S. Swaminathan School of Agriculture.
Renewable Energy Applications / Technology & Applications	(Skill courses; see course pages—schools not listed in table.)
Solar PV Driven Equipments O&M & Assembly	(Skill course; see course page—schools not listed in table.)
Solar PV Installation (CUTM3073)	School of Engineering & Technology; School of Agriculture & Bio-Engineering; School of Vocational Education & Training; M.S.

Course (Code)	School(s) offering
	Swaminathan School of Agriculture; School of Management; School of Applied Sciences.
Solar Thermal Engineering (certificate)	(Skill course; see course page—schools not listed in table.)
Solar PV Microgrid System (CUTM3076)	School of Engineering & Technology; School of Vocational Education & Training; M.S. Swaminathan School of Agriculture; School of Management; School of Applied Sciences.
Solar PV Installer (0-2-2 skill)	School of Engineering & Technology; School of Agriculture & Bio-Engineering; School of Vocational Education & Training; M.S. Swaminathan School of Agriculture; School of Management; School of Applied Sciences; School of Paramedics & Allied Health Sciences.
Solar Lighting Technology (CUTM3074)	School of Engineering & Technology; School of Agriculture & Bio-Engineering; School of Vocational Education & Training; M.S. Swaminathan School of Agriculture; School of Management; School of Applied Sciences; School of Paramedics & Allied Health Sciences.
Solar Thermal Engineering – Industrial Process Heat (CUTM3078)	(Skill course; see course page—schools not listed in table.)
Disaster Management (MADM2101)	M.S. Swaminathan School of Agriculture.
Disaster Preparedness & Planning Management (CUTM1907 / ABC01)	School of Engineering & Technology.
Rainfed Agriculture & Watershed Management (ASAG2211)	M.S. Swaminathan School of Agriculture.
Watershed Hydrology (CUTM1129)	School of Agriculture & Bio-Engineering.

Course (Code)	School(s) offering
Watershed Planning & Management (CUTM1137)	School of Engineering & Technology.
Soil & Water Conservation Engineering (ASAE1101)	M.S. Swaminathan School of Agriculture.
Soil-Water Conservation Engineering & Structures (CUTM1136)	School of Agriculture & Bio-Engineering.
Soil & Water Conservation through Watershed	(Course page listed; school not specified in table.)
Organic Farming (CUTM3081)	School of Engineering & Technology; School of Pharmacy & Life Sciences; School of Forensic Sciences; M.S. Swaminathan School of Agriculture; School of Management; School of Applied Sciences; School of Paramedics & Allied Health Sciences.
Organic Farming – Diploma (3-15-0)	(Skill course; school not specified in table.)
Farming Systems & Organic Farming for Sustainable Agriculture (ASAG3207)	M.S. Swaminathan School of Agriculture.
Organic Farming (3-15-11)	School of Forensic Sciences; M.S. Swaminathan School of Agriculture.
Vermicomposting Farming (CUTM3086)	School of Forensic Sciences; M.S. Swaminathan School of Agriculture; School of Applied Sciences; School of Paramedics & Allied Health Sciences.
Bio-fertilizer Preparation (CUTM3103)	School of Engineering & Technology; M.S. Swaminathan School of Agriculture; School of Applied Sciences.

Course Name	Course Code	Notes
Environmental Science	CUTM1010 (0-0-2)	Multidisciplinary overview of environment, ecosystems, resources, pollution, sustainable management. (Centurion University Courseware)
Climate Change, Sustainability & Organisations	CUTM1015 (2-0-1)	Introduces sustainability and organisational perspective. (Centurion)