

Research Centre in Disaster Management

Focus of the Centre:

SDG 1: No Poverty, SDG 2: Zero Hunger, SDG 6: Clean Water and Sanitation

SDG 8: Decent Work and Economic Growth, SDG 9: Industry, Innovation and Infrastructure

SDG 11: Sustainable Cities and Communities, SDG 14: Life Below Water

SDG 15: Life On Land and SDG 16: Peace, Justice and Strong Institutions

Vision: To promote and develop a culture of prevention and preparedness at all levels and ensure a disaster-resilient society through training, education and research

Mission:

To set up course curriculum for the post-graduate programme at par with worldwide high ranking universities so that in addition to educating the students, an element of research and sustainability is also added to the degree course.

Location: F block

Year of Establishment: 2018

Faculty In-charge: Dr. M. S. Thakur

No. of Publications in following SDGs (2018-2023):

Name of SDG	No. of Publications
SDG 1: No Poverty	10
SDG 2: Zero Hunger	58
SDG 6: Clean Water and Sanitation	253
SDG 9: Industry, Innovation and Infrastructure	116
SDG 11: Sustainable Cities and Communities	31
SDG 15: Life On Land	6

Extracted from Scopus database

The multi-disciplinary Research Centre in Disaster Management was established at Shoolini University in 2018 under the Faculty of Management Sciences and Liberal Arts. The main objective of the centre is to educate the students against the possible happening of disasters and their sustainable management; how climate change has inducing effects in these disasters and further how to mitigate such disasters. The following courses were taken up during 2018-19 and 2019-20 in this centre to educate the students as a part of their curriculum.

1. Introduction to disaster and sustainable management
2. Technical application of disaster management
3. Agricultural disaster management
4. Climate and water disaster management

Within just two years of its inception, the Centre has already established linkages with National and International Institutions and Industry for research, education, and technology transfer. It boasts of a highly specialized faculty in various disciplines of Disaster Management and climate change with well-equipped laboratories for teaching, R&D and consultancy. The major task of the Centre is to develop comprehensive innovative solutions to various disaster and environmental-related challenges through leadership projects.

Thrust areas of research: Earthquake resistant habitats, Preservation of the environment, Landslide control, etc.

Resources Available: The centre has four labs aligned with the Department of Civil Engineering and the Department of Chemistry

1. Environmental laboratory.

This laboratory is part of the Department of Civil Engineering which is a resource lab for the RCDMCC. This laboratory is located in the 'F' Block of the university. The facility of testing of water quality is available in this lab.

2. Building Material and Concrete Lab.

This laboratory is part of the Department of Civil Engineering which is a resource lab for the RCDMCC. Various tests for strength can be conducted in this laboratory.

3. Soil Mechanics Lab.

This laboratory is part of the Department of Civil Engineering which is a resource lab for the RCDMCC for testing soil-related samples.

4. Chemical Laboratory: This lab is available for carrying out all chemical analysis required in research connected with climate change.



Environmental Laboratory in the F-Block



BMC Laboratory in the H-Block



Soil Mechanics Laboratory in the H-Block

Research Projects

The centre has been awarded National Geographic Grant NGS-64405R-19 USD \$59930.000 for proposal "What goes up must come down: Himalayan Upstream plastic waste solutions that minimize downstream marine inputs" with Katie Conlon, Fulbright Research Fellow Portland University USA.

Activities

- Dr. Ashutosh Mohanty, former Director of the centre represented the university in Australia (Nov. 2018), China (3&4/2019) in connection with climate change disaster management issues (Lanzhou University, Chinese Academy of Sciences)
- Dr. Ashotosh Mohanty former Director of the was invited to participate in the Economic Justice Conclave (EJCON) held on 27-29, January 2020 to address the issue of Climate Change and Woman Injustice through panel discussions and talks.

Patents Filed

Title	Inventors	Application Number	Date of filing
An EARTHQUAKE RESISTANT WOODEN-REINFORCED CEMENT CONCRETE HYBRID BUILDING	Sangeeta Negi , M S Thakur	202111040803	September 08, 2021