



CHRIST
COLLEGE (AUTONOMOUS)
IRINJALAKUDA, KERALA
Reaccredited by NAAC with 'A' grade

DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE CERTIFICATE COURSE DETAILS

NAME OF THE COURSE

Certificate course in Disaster Management

COURSE CODE

CPCC23

OFFERED BY

DEPARTMENT OF GEOLOGY AND ENVIRONMENTAL SCIENCE

COURSE COORDINATOR

SUBIN K JOSE

COURSE DETAILS

Online certificate course in Disaster management.

Duration: Two months (30 hours)

Fee: 300/- (Three hundred only)

Only hundred seats available (first come first basis)

Eligibility: Plus two in any stream (Any one having genuine interest can also join).

ABOUT COLLEGE

Christ College (Autonomous), Irinjalakuda established in the year 1956 by CMI fathers has always been a place where young generations are moulded towards a bright future. College has excellent infrastructure, with state of the art laboratories, seminar rooms and lecture halls. The campus is Wi-Fi enabled. Presently College is home for 4500+ students, 200 teaching staff and 45 supporting staff. The strength of the College lies in its hardworking and tech savvy teachers who are eager to involve in all matters of students. The lush green campus with gardens and open gym is moving towards the next phase on education both offline and online.

WHAT IS THE COURSE?

Online certificate course in Disaster management.

It is equivalent to audit course syllabus of University of Calicut (Semester 2-Equivalent to the audit course).



SCOPE OF THE COURSE

Recent years we have gone through many tough times because of natural disasters including flood, landslide and drought. Many of the disasters though appear to be natural, we can see the hidden anthropological activities behind. Society should have a good awareness about the disasters and how to respond to them. To study this course, we can act and response to cop with the disaster

LEARNING OUTCOMES (MINIMUM 3)

Provide holistic approach to disasters.

Provide information regarding management of disasters.

Helpful for the sustainable development programmes

COURSE OUTLINE

Deal with different natural and anthropogenic disasters and its mitigation measures. Disaster Preparedness and Response Concept and Nature Disaster Preparedness Plan. Role of Information, Education, Communication, and Training in disaster management.

COURSE MODULES

Module 1:

Introduction – Hazard and Disaster. Concepts of Hazard, Vulnerability, Risks. Different Types of Disaster : A) Natural Disaster: such as Flood, Cyclone, Earthquakes, Landslides etc B) Manmade Disaster: such as Fire, Industrial Pollution, Nuclear Disaster, Biological Disasters, Accidents (Air, Sea, Rail & Road), Structural failures(Building and Bridge), War & Terrorism etc. Slow Disasters (famine, draught, epidemics) and Rapid Onset Disasters(Air Crash, tidal waves, Tsunami) Causes, effects and practical examples for all disasters.

Water and Climate Disaster: flood, hail storms, cloudburst, cyclones, heat and snow avalanches, cold waves, droughts, sea erosion, thunder and lightning. Geological Disaster: landslides, earthquakes, Tsunami, mine fires, dam failures and general fires. Biological Disaster: epidemics, pest attacks, cattle epidemic and food poisoning. Nuclear and Industrial Disaster: chemical and industrial disasters , nuclear accidents. Accidental Disaster: urban and forest fires, oil spill, mine flooding incidents, collapse of huge building structures.

Module 2:

Natural disasters- Earthquakes, Tsunami, Floods, Drought, Landslides, Cyclones and Volcanic eruptions. Their case studies. Coastal disasters. Coastal regulation Zone.

Risk and Vulnerability Analysis 1. Risk : Its concept and analysis 2. Risk Reduction 3.

Vulnerability : Its concept and analysis 4. Strategic Development for Vulnerability Reduction . Disaster Prevention and Mitigation. Refugee operations during disasters, Human Resettlement and Rehabilitation issues during and after disasters, Inter-sectoral coordination during disasters, Models in Disasters.

Module 3:

Disaster Preparedness and Response Concept and Nature Disaster Preparedness Plan Prediction, Early Warnings and Safety Measures of Disaster. Role of Information, Education, Communication, and Training,

Introduction Disaster Response Plan Communication, Participation, and Activation of Emergency Preparedness Plan Search, Rescue, Evacuation and Logistic Management Role of Government, International and NGO Bodies Psychological Response and Management (Trauma, Stress, Rumor and Panic) Relief and Recovery Medical Health Response to Different Disasters.

Module 4:

Rehabilitation, Reconstruction and Recovery Reconstruction and Rehabilitation as a Means of Development. Damage Assessment Post Disaster effects and Remedial Measures. Creation of Long-term Job Opportunities and Livelihood Options, Disaster Resistant House Construction Sanitation and Hygiene Education and Awareness, Dealing with Victims' Psychology, Longterm Counter Disaster Planning Role of Educational Institute.

Module 5:

The vulnerability atlas of India. Disaster Prevention and Mitigation. Agencies involved in Disaster Management. Warning and Prediction

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