

- ❖ Chemical Disasters, What shall not go wrong?
- ❖ Industrial Toxicology
- ❖ Fire & Explosion Disaster
- ❖ Emergency Response Plan
- ❖ Capacity Building Development Programme
- ❖ Disaster Rescue Operations Training by National Disaster Response Force (4<sup>th</sup> Battalion NDRF Arakkonam)
- ❖ Community based Disaster Management
- ❖ Resilient Community and Sustainable Livelihoods
- ❖ Disaster Management through Community Extension and Outreach Programmes

#### Resource Person

Resource persons from NDRF - India and Faculty members from various Universities and Research Institutes with rich experience in the field of disaster management and assessment.

#### Target Audience

Industry professionals, Scientists & Faculty members working in Universities, Engineering, Polytechnic, Arts & Science Colleges, Research Scholars in relevant backgrounds of Arts, Sciences and Engineering can participate in this FDP. Maximum of 75 participants are allowed to participate and confirmation on a first cum first serve basis.

#### IMPORTANT DATES

Submission of Registration Form (Before) : 05.12.2022  
 Intimation of acceptance : 06.12.2022  
 Confirmation of your Participation : 07.12.2022

#### REGISTRATION FEES

The Registration fee should be sent through Demand Draft drawn in favour of "The Registrar, Annamalai University" payable at Annamalai Nagar – 608002.

Faculties/Industrial Professionals/Scientists – Rs.1500/-  
 Research Scholars – Rs.750/-

#### GENERAL INSTRUCTIONS:

- ❖ **Registration**: There is no spot registration.
- ❖ **Certificate**: Certificates would be issued to the participants on satisfactory completion of the FDP program with more than 90% attendance.
- ❖ **Accommodation**: Accommodation will be provided for external participants based on their request in the Guest house/ Hostel located in the University Campus on twin sharing basis at their own cost. (On campus, limited accommodation is available at the University Guest house/ hostels on sharing basis @ Rs 600/- per day (2persons, Non AC), Rs 1200/- per day (3 persons, AC))
- ❖ **FDP Package**: E-book on Disaster Management, Participation Certificate, Program kit, working lunch and high Tea will be provided.

#### ADDRESS FOR CORRESPONDENCE

**Dr. M. Vijay**  
 Associate Professor  
**Coordinator - DISMA 2022**  
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**ANNAMALAI UNIVERSITY**

(Accredited with 'A+' Grade by NAAC)  
 ANNAMALAI NAGAR – 608002 TAMIL NADU  
 (IQAC Enabled)



**RUSA 2.0 Sponsored**



**One Week Faculty Development Program**

On

**DISASTER MANAGEMENT**

12<sup>th</sup> – 18<sup>th</sup> December 2022

**DISMA – 2022**

**MITIGATION / PREPARATION / RESPONSE / RECOVERY**

**Coordinators**

**Dr. M. Vijay**  
**Dr. R. Ramsenthil**  
**Dr. G. Durai**  
**Dr. R. Jayakumar**  
**Dr. R. Palaniraj**

**Organized by**

**Department of Chemical Engineering**  
**Faculty of Engineering and Technology**  
**Annamalai University**

## ORGANIZING COMMITTEE

### PATRON

**Prof. RM.KATHIRESAN,**  
Vice - Chancellor, Annamalai University.

### PRESIDENT

**Prof. K.SEETHARAMAN**  
Registrar i/c Annamalai University.

### CHAIRMAN

**Prof. A.MURUGAPPAN**  
Dean, FEAT, Annamalai University.

### VICE CHAIRMAN

**Prof. R.DHANASEKAR**

Professor & Head, Dept of Chemical Engg, Annamalai University

### COORDINATORS

**Dr. M. Vijay**

**Dr. R. Ramsenthil**

**Dr. G. Durai**

**Dr. R. Jayakumar**

**Dr. R. Palaniraj**

### ABOUT THE UNIVERSITY

In the early 1920s Rajah Sir S. R. M. Annamalai Chettiar founded Sri Minakshi College, Sri Minakshi Tamil College and Sri Minakshi Sanskrit College at Chidambaram. In 1928, Rajah Sir S. R. M. Annamalai Chettiar agreed with the local Government to handover the above said institution for establishing a University. Thus, on 01.01.1929 Annamalai University was established as per Annamalai University Act 1928 (Tamil Nadu Act 1 of 1929). One of the most significant developments is the enactment of the Annamalai University Act, 2013 (Tamil Nadu Act 20 of 2013), which has come into force from September 25, 2013. Annamalai University is accredited with 'A+' Grade by NAAC in 2022. "The NIRF-2020" by the Ministry of Human Resource Development (MHRD) has ranked the University in the band 101 - 150 in the overall category as well as the University Category. In the Pharmacy Category the ranking is 12th in India. In the Medical Category the ranking is 35th "The Times Higher Education World University Ranking - 2021" has ranked Annamalai University in 1000+ for Overall category. In the Subject Category Ranking, 2021, the University is ranked 601+ for Clinical & Health Subjects, in the band of 801-1000 for Engineering, 801+ for Life Sciences and 1000+ in the Physical Sciences Subjects. "The QS World University Ranking - 2021" has ranked Annamalai University in the band of 301-350 in Asia Ranking, and 39 in India Ranking. "The CWTS Leiden Ranking 2019", on scientific impact of universities and on universities' involvement in scientific collaboration & scientific performance, has ranked the University at 23rd based on the number of publications and 7th based on the proportion of publications that, compared with other publications in the same field and in the same year, belong to the top 10% most frequently cited. Among the top 212 ranked institutions for Higher Education in India the "SCImago Institutional Ranking (2019)" has ranked Annamalai University as 9th in Tamil Nadu and 29th in India. Annamalai University is one of the largest unitary, teaching, and residential Universities in Southern Asia comprising of 10 Faculties and 49 departments of study. This University has played a pivotal role in providing access to higher education to thousands of youth cutting across the social spectrum, especially from economically and socially disadvantaged classes. In this respect, this University's service to the nation is tremendous.

### Faculty of Engineering and Technology

The Faculty of Engineering and Technology (FEAT) was established the year 1945, as the second Engineering College of the then composite Madras State. The FEAT celebrated its Golden Jubilee in the Year 1996 and Diamond Jubilee in the year 2005. The FEAT has 11 department of study namely Chemical Engineering Civil, Civil & Structural, Mechanical, Manufacturing, Electrical, Electronics & Instrumentation, Electronics & Communication, Computer Science & Engineering, Information Technology and Pharmacy.

### Department of Chemical Engineering

The Department of Chemical Engineering, Annamalai University is a DST-FIST sponsored Department. The Department offers B.E. (Chemical Engineering), M.E. (Chemical Engineering) M.Tech (Food Processing Technology) M.Tech (Industrial Safety Engineering) M.Tech (Industrial Biotechnology) and Ph.D., (Chemical Engineering) Programs. The department has received research grants to the tune of 2.5 crores from various funding agencies like DST, DBT, UGC, Ministry of Food Processing and Ministry of Environment & Forests.

### RUSA - Revolutionizing Higher Education In India

The RashtriyaUchcharShikshaAbhiyan (RUSA) is the central government's contribution to further the promise held by the rich expanse of India's state universities. The country's future lies in empowering these campuses with all that it takes to enhance learning, better research and promote innovation. A centrally sponsored scheme, RUSA understands that sometimes the most important lessons of life are learnt outside the classroom. So whether it is upgrading libraries or computer laboratories, promoting autonomous colleges or clubbing them to consolidate their strength and forming cluster universities, this programme realizes that every institution holds the power to enrich lives through top-class education with universities, to prepare universe-ready scholars.

### NDRF - India

The DM Act 2005 envisages a paradigm shift from the erstwhile relief-centric approach to a proactive, holistic and integrated management of disasters with emphasis on mitigation, preparedness and response. The prime task of NDRF is to provide specialized response during disasters. During normal situations, NDRF upgrades its skills by rigorous training, regular practice and mock drills. NDRF has taken up the challenge to impart training and preparing various civil agencies such as police, civil defence, defence personnel, home guards, youth in colleges and schools to face and fight disasters.

### Disaster Management (DISMA – 2022)

Disaster management is defined as the organisation and use of resources as well as duties in order to respond to various emergency circumstances, whether they are man-made or natural disasters. It focuses on preparing people for a wide range of disasters and assisting them in responding more effectively as well as ensuring recovery, and reducing the total damage. Each year the world faces a kind of disaster which brings in many kinds of crises and loss of human lives. Some of the major disasters in India are the 1999 super cyclone in Odisha, the 2001 Bhuj Earthquake, the 2004 Tsunami, etc. Whenever the country goes through such disasters, the government takes necessary actions. Disaster management is therefore needed to reduce the impacts of these disastrous situations that might occur anytime. Disaster management structures and plans different methods to reduce the impact of these disasters and various ways to tackle such emergencies so that lives can be saved. Objectives of Rusa 2.0 Sponsored One Week Faculty Development Program On Disaster Management (DISMA – 2022) are to bring out the awareness and relevance of this approach and to bring out the exposure to the participants to make the best use of it by actively participating in it.

### Contents of DISMA – 2022

- ❖ United Nations Framework Convention on Climate Change – COP27
- ❖ Disaster Management in India
- ❖ Legal Framework of Disaster Management Act 2005
- ❖ Net Zero Carbon for Survival of the Earth
- ❖ Watershed Management
- ❖ Radiation Protection
- ❖ Atomic Energy Regulatory Board (AERB) –Rules and Regulations
- ❖ Biological Disaster Management
- ❖ Mining Disaster and Safety Measures
- ❖ Remote Sensing and GIS for Disaster Management
- ❖ Human hindrance on Coastal Disaster and Management Strategy
- ❖ Earthquake Disaster
- ❖ Forecasting & Re-Engineering Techniques against Earthquake
- ❖ Remote Sensing and GIS for Flood Management
- ❖ Landslides Disaster Management