

## SOFT COURSE: GYS 504: Disaster Studies

### Course Learning Outcomes:

- CO1. Identify major natural disaster.
- CO2. Analyze the causes and consequence of disaster.
- CO3. Execute the different preventing methods.
- CO4. Connect real world with methods.

Units	Course Content	Teaching Hours
<b>1</b>	<b>Environment hazards &amp; disasters:</b> Meaning & approaches, Causes and consequences of disaster: Physical, economic and cultural, National and International organizations into disaster management. Types of environmental hazards and disaster: Natural disaster- Earthquake, tsunamis, landslides, volcanic eruption, cyclones, tornados, floods, droughts, heat waves and cold waves. Man induced hazards-Soil erosion, release of toxic chemicals, nuclear explosion, population explosion and resultant environmental disasters.	<b>13</b>
<b>2</b>	<b>Emerging approaches to Disaster management:</b> (1) Pre-disaster stage (Preparedness)-hazard zonation maps-predictability and forecasting warning, land use zoning, Information, Education & Communication (IEC) Disaster resistance house construction, Population reduction in vulnerable area and awareness. (2) Emergency Stage- Rescue training for search and operation at national and regional level, ground management plan preparation, immediate relief, Assessment surveys. (3) Post disaster stage rehabilitation – Political administrative aspects, social aspect, economic aspect, cultural aspect and environmental aspects	<b>14</b>
<b>3</b>	<b>Natural Disaster mitigation:</b> Relief measure, role of GIS in Relief measures, role of GNSS in search and rescue, role of Remote sensing in prediction of hazards and disasters, measures of adjustment of natural hazards	<b>14</b>

### References:

1. R.B. Singh (Ed), (1990): Environmental Geography, Heritage Publishers New Delhi
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3. Kates, B.I & White, (1978): G.F the Environment as Hazards, oxford, New York.
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5. H.K. Gupta (Ed), (2003): Disaster Management, Universities Press, India.
6. R.B. Singh,(1994):Space Technology for Disaster Mitigation in India (INCED), University of Tokyo.
7. Dr. Satender, (2003): Disaster Management t in Hills, Concept Publishing Co., New Delhi.
8. A.S. Arya Action Plan for Earthquake, Disaster Mitigation.
9. V.K. Sharma (Ed) (1994): Disaster Management IIPA Publication New Delhi.
10. R.K. Bhandani An overview on Natural & Man-made Disaster & their Reduction, CSIR, New Delhi
11. M.C. Gupta, (2001): Manuals on Natural Disaster management in India, National Centre for Disaster Management, IIPA, New Delhi.

# **REPORT ON THE NATIONAL WEBINAR ON THE TOPIC OF “CLIMATE CHANGE, AGRICULTURE AND DISASTER MANAGEMENT”- GEOSPATIAL REMEDY**

Department of Geography, Mangalore university, Mangalagangothri organized a two days National webinar on the topic of “Climate change, Agriculture and Disaster Management”- Geospatial Remedy on 25<sup>th</sup> and 26<sup>th</sup> February. The programme started with the welcome speech by Dr. Dasharatha P. Angadi, co-ordinator, Department of Geography Mangalore University, and the convener of the webinar. He gave a brief introduction of Prof. P. Subramanya Yadipadithaya, honorable Vice-chancellor, Mangalore University, and Prof. P. Subramanya Yadipadithaya, honorable Vice-chancellor inaugurated the national webinar and gave the inaugural speech.

A very prominent speaker prof. R.B Singh, secretary General International Geographic Union and former professor, school of economics, Delhi University New Delhi, India delivered a keynote address on “Climate Change and Disaster Reduction”. The session went on to be more informative as he continued to talk about climate change. The first technical session was Chaired by Prof. Jegankumar, Rajagopal, Head of the Department, Dept. of Geography, Bharathidasan University, and six participants were presented their research paper in the first technical session.

Dr. Ashok D. Hanjagi, Professor & Chairman, Department of Geography Bangalore University delivered a special lecture on “Disaster management from Global to local”. The second technical session was chaired by Dr. Ashok Kumar Lonavath, associate professor and Chairman of BOS, Department of Geography, Osmania University. In this session, seven participants have presented their papers on agricultural aspects and climatic change.

The second day of webinar started with a special lecture by Dr. Srikumar Chattopadhyay, Retd. Scientist and Head, Resources analysis division, CESS, Trivandrum. He delivered a lecture on “Water management and agriculture”. In this technical session, seven participants have presented papers on flood hazard mapping using GIS, Global Anthropogenic disasters, and their impact on the environment.

B. Hema Malini, professor (Emeritus) of Geography, Andra University, Vishakhapatnam delivered a special lecture on “Climate change Past, Present, Future”. It was a very informative and excellent talk. The last session was chaired by Dr. L.T. Nayak, Associate Professor & Research Guide, Department of Geography, Karnataka Science College, Dharwad, Karnataka. Seven participants have presented papers in this session.

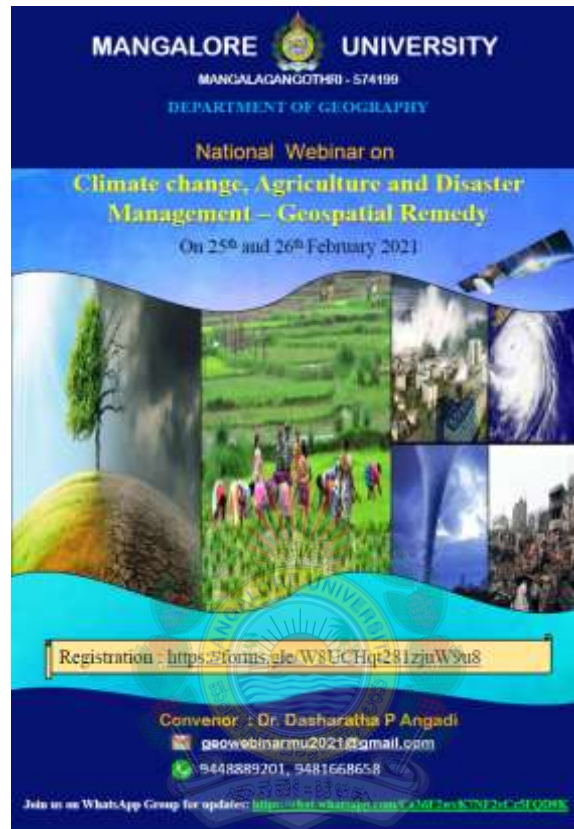
By the end of day two, Dr. Dasharatha P. Angadi, co-ordinator and convener of the webinar expressed his gratitude towards the keynote speakers, participants, presenters of the webinar and read the brief

report of the two-day national webinar, and delivered the vote of thanks for the Dignitaries, vice-chancellor, registrar of Mangalore University.

There was a total number of 322 participants were registered for the webinar and 106 actively participated during the sessions and a total number of 26 participants presented their research works in the webinar. Certificates were issued to 106 participants and 26 presenters.



**NATIONAL WEBINAR ON “CLIMATE CHANGE, AGRICULTURE  
AND DISASTER MANAGEMENT- GEOSPATIAL REMEDY”**



Department of Geography, Mangalore University, Mangalagangothri organized a two-day National webinar on “**Climate change, Agriculture and Disaster Management- Geospatial Remedy**” on 25th and 26th February. The webinar was inaugurated by Prof. P. Subrahmanya Yadapadithaya, Hon’ble Vice-Chancellor, Mangalore University.

There were four prominent speakers and resource persons has delivered special talks on different aspects of the webinar. The speakers include **Prof. R.B Singh, Dr. Ashok D. Hanjagi, Dr. Srikumar Chattopadhyay, and B. Hema Malini**. The two-day webinar has organized into four technical sessions and the sessions were chaired by **Prof. Jegankumar, Rajagopal, Dr. Ashok Kumar Lonavath, Dr. T. K. PRASAD Dr. and L.T. Nayak**.



There was a total number of 322 participants were registered for the webinar and 139 participants actively participated during the sessions and a total number of 26 participants presented their research works in the webinar. Certificates were issued to 113 participants and 26 presenters.



## Participants list

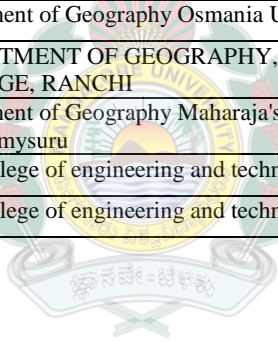
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