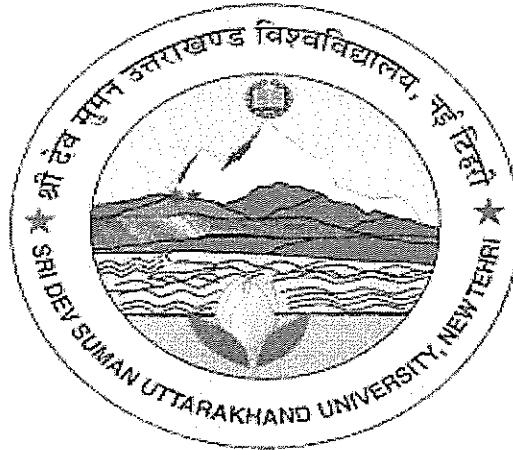


# NATIONAL EDUCATION POLICY-2020

Common Minimum Syllabus for University Campus  
and all Affiliated Colleges of Sri Dev Suman  
Uttarakhand University



STRUCTURE OF VOCATIONAL  
(SKILL ENHANCEMENT)  
COURSE IN DISASTER MANAGEMENT  
(INCREMENTAL MODE)  
SYLLABUS  
2023-2024

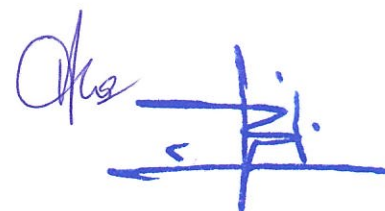
## Curriculum Design Committee, Uttarakhand

Sr.No.	Name & Designation
1.	Prof. N.K. Joshi Vice-Chancellor, Sri Dev Suman Uttarakhand University, Tehri Chairman
2.	Vice- Chancellor, Kumaun University, Nainital
3.	Prof. Jagat Singh Bisht Vice-Chancellor, Soban Singh Jeena University Almora Member
4.	Prof. Surekha Dangwal Vice-Chancellor, Doon University, Dehradun Member
5.	Prof. O.P.S. Negi Vice-Chancellor, Uttarakhand Open University Member
6.	Prof. M.S.M. Rawat Advisor, Rashtriya Uchcharat Shiksha Abhiyan, Uttarakhand Member
7	Prof. K. D. Purohit Advisor, Rashtriya Uchcharat Shiksha Abhiyan, Uttarakhand Member


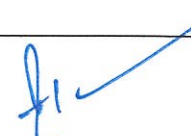
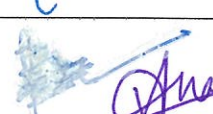
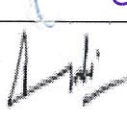
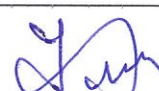
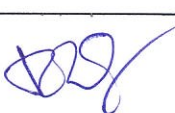


## Syllabus Preparation Committee

S.No.	Name	Designation	Department Affiliation
1	Dr. D.C. Goswami	Professor, Head & Dean of Arts,	Department of Geography Sri Dev Suman Uttarakhand University, Campus Rishikesh
2	Dr. T.B. Singh	Professor	Department of Geography Sri Dev Suman Uttarakhand University, Campus Rishikesh
3	Dr. A.P. Dubey	Professor	Department of Geography Sri Dev Suman Uttarakhand University, Campus Rishikesh
4	Dr. Aruna P. Sutradhar	Associate Professor	Department of Geography Sri Dev Suman Uttarakhand University, Campus Rishikesh



**SRI DEV SUMAN UTTARAKHAND UNIVERSITY**  
**Badshahithaul, Tehri Garhwal (Uttarakhand)**  
**Members of Board of Studies Geography**

S.N.	Name of the Members	Designation	Nominated As	Signature
1.	Dr. D.C. Goswami	Professor, Head & Dean of Arts,	Chairman	
2.	Dr. T.B. Singh	Professor	Member	
3.	Dr. A.P. Dubey	Professor	Member	
4.	Dr. Aruna P. Sutradhar	Associate Professor	Member	
5.	Dr. R.C. Joshi	Professor, Head Kumaun University, Nainital	Member	
6.	Prof. Janki Panwar	Principal	G.P.G.C. Kotdwar	
7.	Prof. Lovney R. Rajvanshi	Principal	G.P.G.C. Jaiharikhal	
8.	Prof. K.L. Talwar	Principal	G.D.C. Chakrata	
9.	Nedesak, Uttarakhand Bhasa Sansthan	Nedesak	Rajpur Road, Dehradun	

**Vocational Course Syllabus**  
**NEP Under Graduate Programme**  
**Disaster Management (Incremental Mode)**  
(For Under Graduate Students to opt it in first four semester)

Year	Sem	Course/Paper	Credit	Total Credits
First	I	<b>GEO-Skill 101 Disaster Management -I</b>  Course Title: Disaster Management: An Introduction to Disaster & Hazards	3	
First	II	<b>GEO-Skill 102 Disaster Management –II</b>  Course Title: Disaster Management: Understanding Natural Disaster	3	
Second	III	<b>GEO-Skill 103 Disaster Management –III</b>  Course Title: Disaster Management: Stages of Disaster Management	3	
Second	IV	<b>GEO-Skill 104 Disaster Management –IV</b>  Course Title: Disaster Management: Planning, Policy & Management	3	12

Every U G Student has to choose one Vocational (Skill Enhancement) Course in First four semester



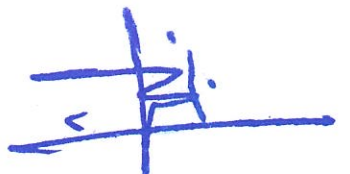
  


Vocational Course Syllabus  
NEP Under Graduate Programme

Disaster Management (Incremental Mode)

First Semester

Programme: Under Graduate VocationalArts/Science/Commerce		Year: I	Semester: I Paper-I
Subject: Disaster Management(Incremental Mode) Geography			
Course Code: GEOG SKILL101		Course Title: Disaster Management: An Introduction to Disaster & Hazards	
<b>Course Outcome:</b> This course will develop the skill of understanding about natural calamities and disaster and, also realize the consequences aswell as preparedness. It will also give an exposure about the natural and manmade disasters of Uttarakhand			
Credits: 03		Max. Marks: 25 Internal Assessment (IS10+P/S10+P5) 75 Term End Exam.	
Unit	Course Content	No. of Lectures	
Unit – I	Meaning, Concept and Significance of Disasters, Hazards, Vulnerability and Resilience.	10	
Unit – II	Natural and human induced Causes of Disaster	10	
Unit – III	Risk and Vulnerabilities analyses of disasters	10	
Unit – IV	Global, National and local Scenario of Disaster Management. Training & Drills, Case Studies	15	

**Vocational Course Syllabus  
NEP Under Graduate Programme**

**Disaster Management (Incremental Mode)**

**Second Semester**

<b>Programme: Under Graduate Vocational Arts/Science/Commerce</b>		<b>Year: I</b>	<b>Semester:II Paper II</b>
<b>Subject: Disaster Management (Incremental Mode) Geography</b>			
<b>Course Code: GEOG SKILL102</b>		<b>Course Title: Disaster Management: Understanding Natural Disaster</b>	
<b>Course Outcome:</b> This course will develop the skill of understanding about natural calamities and disasters and, shall make aware regarding various types of disasters and their impacts on natural landscape and society.			
Credits: 03		Max. Marks:25 Internal Assessment (IS10+P/S10+P5) 75 Term End Exam.	
Unit	Course Content	No. of Lectures	
Unit – I	<b>Various types of disasters; Natural Disasters-</b> Earthquake, Cyclone, Drought Landslides, Volcanic eruption	10	
Unit – II	<b>Natural Disasters-</b> Avalanches, Cloud burst, Cyclone, Tsunami, Storm	10	
Unit – III	Extreme heat, Cold waves, Climate change, Global warming, Sea level rise	10	
Unit – IV	<b>Human Induced Disaster:</b> Nuclear, chemical and Biological Disaster, Building fire, Forest fire, Coal and oil fire, Water, Air and Industrial Pollution, Road, Rail, Air & Sea Accidents and Epidemic, Pandemic.	15	

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### Third Semester

<b>Programme: Under Graduate Vocational Arts/Science/Commerce</b>		<b>Year: II</b>	<b>Semester: III Paper III</b>
<b>Subject: Disaster Management (Incremental Mode) Geography</b>			
<b>Course Code: GEOG SKILL103</b>		<b>Course Title: Disaster Management: Stages of Disaster Management</b>	
<b>Course Outcome:</b> This course will develop the skill of understanding about natural calamities and disasters and, shall make aware regarding various aspects of its management..			
Credits: 03		Max. Marks: 25 Internal Assessment (IS10+P/S10+P5) 75 Term End Exam.	
Unit	Course Content	No. of Lectures	
Unit – I	Management of Disasters: Disasters Preparedness and Prevention	10	
Unit – II	Disasters- Mitigation ,Response and Recovery	10	
Unit – III	Role of Central, state, District and Local Bodies in Disaster Risk Reduction	10	
Unit – IV	Field Work: Field study of a disaster prone or disastrous area and its impact analysis	15	





## Fourth Semester

<b>Programme: Under Graduate Vocational Arts/Science/Commerce</b>		<b>Year: II</b>	<b>Semester: IV Paper- IV</b>
<b>Subject: Disaster Management (Incremental Mode) Geography</b>			
<b>Course Code: GEOG SKILL103</b>		<b>Course Title: Disaster Management: Planning, Policy &amp; Management</b>	
<b>Course Outcome:</b> This course will develop the skill of understanding about Management skill regarding pre,during and post disaster management.			
Credits: 03		Max. Marks: 25 Internal Assessment (IS10+P/S10+P5) 75 Term End Exam.	
Unit	Course Content	No. of Lectures	
Unit – I	Disaster Mapping. Use of GIS and Remote Sensing techniques  Disaster Management Act and Policy	10	
Unit – II	Search, Rescue, Evacuation and Logistic Management,  Relief (water, food, sanitation, shelter, health and waste management),	10	
Unit – III	Long and Short Term Counter Disaster Planning.A 4 page note shall be prepared by the student on Long and Short Term Counter Disaster Planning on any specific disaster.	10	
Unit – IV	Damage assessment, Rehabilitation, Reconstruction.	15	

### Suggested Reading:

Bhargava, Gopal (1992): Environmental Challenges and Ecological Disaster, Mittal Publication, New Delhi

Kapur, A. (2010) Vulnerable India: A Geographical Study of Disasters, Sage Pub. New Delhi,

Muhammad Z Mamun and A T M Nurul Amin, Densification: A Strategic Plan to Mitigate River bank Erosion Disaster inBangladesh, The University Press Limited (UPL), 1999 .

Sahni, Pardeep et.al. (eds.) 2002, Disaster Mitigation Experiences and Reflections, Prentice Hall of India, New Delhi.

- Modh, S. (2010) *Managing Natural Disaster: Hydrological, Marine and Geological Disasters*, Macmillan, Delhi.
- Singh, R.B. (2005) *Risk Assessment and Vulnerability Analysis*, IGNOU, New Delhi.
- Singh, R. B. (ed.), (2006) *Natural Hazards and Disaster Management: Vulnerability and Mitigation*, Rawat Publications, New Delhi
- Government of India. (1997) *Vulnerability Atlas of India*. New Delhi, Building Materials & Technology Promotion Council, Ministry of Urban Development, Government of India.
- Feilden, B. 1987, "Between Two Earthquakes; Cultural Property in Seismic Zones", ICCROM and Getty Conservation Institute, Online Bibliography for Museum Emergency Programme; <http://gcibibs.getty.edu/asp/> accessed on 25 August 2008
- Stovel, H. 1998, ICCROM "Risk Preparedness: A Management Manual for World Cultural Heritage", Rome,
- Jigyasu, R. & Masuda, K. 2005, "Proceedings; Cultural Heritage Risk Management", World Conference on Disaster Reduction Kyoto; Research Center for Disaster Mitigation of Urban Cultural Heritage, Ritsumeikan; Kyoto, Japan
- Menegazzi, C. 2004, "Cultural Heritage Disaster Preparedness and Response", Proceedings of the International Symposium held at Salar Jung Museum, Hyderabad, India, 23-27 November 2003, ICOM Paris  
[http://icom.museum/disaster\\_preparedness\\_book/copyright.pdf](http://icom.museum/disaster_preparedness_book/copyright.pdf) accessed on 15 August 2008
- Spenneman, D. & Look, D. (eds.) 1998, "Disaster Management Programs for Historic Sites", US National Park Service, Western Chapter of the Association of Preservation Technology, California and the Johnstone Centre, Charles Sturt University, Albery, Proceedings of a Symposium organized by the U.S. National Park Service, Western Regional Office, San Francisco, in collaboration with the Western Chapter of the Association for Preservation Technology, and held on 27-29 June, 1997 in San Francisco
- UNESCO-WHC 1983, "Desirability of adopting an international instrument on the Protection of the cultural heritage against natural disasters and their consequences", Report of the Director General;  
<http://unesdoc.unesco.org/images/0005/000560/056088eo.pdf> accessed on 15 August 2008
- UNESCO-WHC 2008, "Policy Document on the Impacts of Climate Change on World Heritage Properties", UNESCO Paris document/ "Case Studies on Climate Change and World Heritage", 2007, UNESCO: Paris  
<http://unesdoc.unesco.org/images/0015/001506/150600e.pdf>
- Michalski S. 2004, "Care and Preservation of Collections", in *Running a Museum, A Practical Handbook* (ed. P. Boylan), ICOM, Paris. p. 51 - 91
- Waller R. 2003, "Canadian Museum of Nature", *Gutenberg Studies in Conservation* 13, Gutenberg Act Universitatis Gothoburgensi

