

NATIONAL EDUCATION POLICY-2020

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



STRUCTURE OF B.A./B.Sc First and Second Year

DEFENCE AND STRATEGIC STUDIES (VOCATIONAL SYLLABUS)

2023-2024



Curriculum Design Committee, Uttarakhand

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



SRI DEV SUMAN UTTARAKHAND UNIVERSITY
BADSHAHITHAUL , TEHRI GARHWAL (UTTARAKHAND)
Members of Board of Studies(BOS)
DEFENCE AND STRATEGIC STUDIES

| S.No. | Name of the Member's | Designation | Nominated As | Signature |
|--------------|-----------------------------|--------------------------|---------------------|------------------|
| 1 | Prof. G.K. Dhingra | Dean, School of Sciences | Chairman | |
| 2 | Dr. Yatish Vashisht | Professor | Convener | |
| 3 | Prof. Pushpa Negi | Principal | Member | |
| 4 | Prof. Pankaj Pant | Principal | Member | |
| 5 | Prof. Kuldeep Singh Negi | Principal | Member | |
| 6 | Prof. Anita Rawat | Director USERC | Member | |



Syllabus Preparation Committee

| S.N. | Name | Designation | Department Affiliation |
|-------------|----------------------------------|--------------------|--|
| 1. | Dr. Yatish Vasisth | Professor | Defence and Strategic Studies SDSU, Badshahithaul, New Tehri, Tehri Garhwal, Uttarakhand |
| 2. | Dr. Deergh Pal Singh Bhandari | Professor | Defence and Strategic Studies SDSU, Badshahithaul, New Tehri, Tehri Garhwal, Uttarakhand |
| 3. | Dr. D.S. Topwal | Asst. Professor | Defence and Strategic Studies SDSU, Badshahithaul, New Tehri, Tehri Garhwal, Uttarakhand |
| 4. | Dr. Kamlesh Chandra Pandey | Guest Faculty | Defence and Strategic Studies SDSU, Badshahithaul, New Tehri, Tehri Garhwal, Uttarakhand |

BA/B.Sc. First Semester

**Defence and Strategic Studies
Defence Studies and Disaster Management(I)**

| Programme/Class : Degree | Year: 1 | Semester: I |
|---|---|----------------|
| Subject: Defence and Strategic Studies | | |
| Course Code: DSS 103 | Course Title : Defence Studies and Disaster Management(I) | |
| Course out Comes: After undergoing this paper students will be in position to understand the meaning and concepts of disaster , hazards and vulnerability. Students will also acquire knowledge on geo-strategy of india . | | |
| Credits:03 | Core compulsory/ elective | |
| Maximum marks: 25+75 | Minimum passing marks: 33 | |
| Total numbers of lectures: 45 | | |
| Unit | Topic | No. of Lecture |
| I. | Our Earth: An Introduction | 10 |
| II. | Meaning, Definitions, nature and characteristics of Disaster , Causes and effects, Trends of Disasters. | 10 |
| III | Meaning of Hazard, Hazard Risk, Difference Between Disaster and Hazard, Extra Terrestrial Hazards. | 10 |
| IV. | Disaster Vulnerability, Poverty, Socio-Economic and Political Factors of Disaster Vulnerability, Types of Disaster Vulnerability. | 09 |
| V. | Environmental Degradation. | 06 |

BOOKS SUGGESTED

1. An Introduction to Disaster Management: Natural Disasters and Man Made Hazards, S. Vaidyanathan, C. B. S. Publishers and Distributors Pvt. Ltd., New Delhi.
2. Disaster Management, H . S. Garg, SBPD Publication, Agra (Hindi).
3. Disaster Management, P. S. Negi , Adhyyan Books, New Delhi(Hindi).
4. Prakritik Aapda Karan evm Bachav, Harishchandra Singh, Greenleaf Publication, Varanasi(Hindi).
5. Disaster Management, Nikuj Kumar, alfa Publications, New Delhi.
6. Natural Hazards, K . K. Paanchal, Discovery Publishing House, New Delhi(Hindi).
7. Natural Hazards and Disaster Management: Vulnerability and Mitigation, R. B. Singh, Rawat Publications, New Delhi.
8. Disaster Management, Savindra Singh, Pravalika Publications, Prayagraj.

BA/B.Sc. Second Semester
Defence and Strategic Studies
Defence Studies and Disaster Management(II)

| | | |
|--|---|-----------------------|
| Programme/Class : Degree | Year: 1 | Semester: II |
| Subject: Defence and Strategic Studies | | |
| Course Code: DSS 203 | Course Title : Defence Studies and Disaster Management(II) | |
| Course out Comes: Students will Develop an understanding about the various types of disasters and Disasters caused by WMD, Disaster's in Himalayan States and Terrorism as a national and international disaster. | | |
| Credits:03 | Core compulsory/ elective | |
| Maximum marks: 25+75 | Minimum passing marks: 33 | |
| Total numbers of lectures: 45 | | |
| Unit | Topic | No. of Lecture |
| I. | Types of Disaster: Natural Disaster and Human induced Disaster. | 06 |
| II. | Natural Disaster: Floods, Landslides, Drought , Cyclone and Earthquake, Man Made Disaster: Causes of man made Disaster . | 10 |
| III | Nuclear Accidents: Chernobyl and Fukushima, Fire, Bhopal Gas Tragedy etc ., WMD Disaster's: Chemical, Biological and Radiological Disaster. | 10 |
| IV. | Disaster's in Himalayan States special reference to Uttarakhand. | 10 |
| V. | Terrorism and Disaster: Challenges to national and international peace. | 09 |

BOOKS SUGGESTED

1. Disaster Management in India, Sunil R Hegde, Notion Press, New Delhi.
2. Natural Hazards, K . K. Paanchal, Discovery Publishing House, New Delhi(Hindi).
3. Prakritik Aapda Karan evm Bachav, Harishchandra Singh, Greenleaf Publication, Varanasi(Hindi).
4. Paryawaran Adhyayan, A. Kaushik&C.P. Kaushik, New Age International(P) Ltd.,New Delhi(Hindi).
5. Silent Warfare Managing Nuclear Chemical Biological (WMD) Disasters, Brig. H. K. Kar, Manas Publications, New Delhi.
6. Disaster Management in the Complex Himalayan Terrains, Shruti Kanga & others, Springer Nature Switzerland AG 2022.
7. Disaster Management, P. S. Negi , Adhyayan Books, New Delhi(Hindi).
8. Aatankwad wa Aapda Prabandhan, S. K . Mishr, Radha Publications, New Delhi(Hindi).
9. Disaster Management, H.S. Garg, SBPD Publication, Agra (Hindi).

BA/B.Sc.Third Semester
Defence and Strategic Studies
Defence Studies and Disaster Management(III)

| Programme/Class : Degree | Year: 2 | Semester: III |
|---|--|----------------|
| Subject: Defence and Strategic Studies | | |
| Course Code: DSS 303 | Course Title : Defence Studies and Disaster Management(III) | |
| Course out Comes: After successful completion of the course , the students are able to understand the stages of Disaster and their management. Acquire knowledge on disaster prevention, preparedness, mitigation etc. To understand Rehabilitation, Reconstruction and Recovery in the event of Disaster and also acquire knowledge about IT and modern technologies used in disaster management. | | |
| Credits:03 | Core compulsory/ elective | |
| Maximum marks: 25+75 | Minimum passing marks: 33 | |
| Total numbers of lectures: 45 | | |
| Unit | Topic | No. of Lecture |
| I. | Disaster Management Cycle: Paradigm shift in Disaster Management, Pre and Post Disaster Management. | 06 |
| II. | Disaster Preparedness : Concept and Nature , measures of Disaster Preparedness , Preparedness for people and infrastructure , Prevention : meaning , concept and nature of prevention. | 10 |
| III | Disaster Response : Meaning , Aims, importance and issues in Disaster Response , Disaster Mitigation: meaning, concept, importance and types of mitigation, Emerging trends in Disaster Mitigation, Mitigation Management. | 10 |
| IV. | Recovery Measures and long- term Recovery, Reconstruction and Rehabilitation as means of development, Relief Management. | 09 |
| V. | Role of Information Technology in Disaster Preparedness, Application of Modern Technologies for the Emergency Communication. | 10 |

BOOKS SUGGESTED

1. Disasters: Strengthening community Mitigation and Preparedness, B. K. Khanna & Nina Khanna, New India Publishing Agency, New Delhi.
2. Prakritik Aapda Karan evm Bachav, Harishchandra Singh, Greenleaf Publication, Varanasi(Hindi).
3. Disaster Management, P. S. Negi , Adhyyan Books, New Delhi(Hindi).
4. Aatankwad wa Aapda Prabandhan, S. K . Mishr, Radha Publications, New Delhi(Hindi).
5. Disaster Management, H . S. Garg, SBPD Publication, Agra (Hindi).
6. Disaster Management, Harsh K Gupta, Universities Press, New Delhi.
7. Disaster Management, R Subramanian, Vikas Publishing House, New Delhi.
8. Disaster Management and Information Technology Professional Response and Recovery Management in the Age of Disasters, Hans Jochen Scholl, Eric E. Holdeman, F. Kees Boersma, Springer Publication.

9. Improving Disaster Management, The Role of IT in Mitigation, Preparedness, Response, and Recovery, Ramesh R. Rao, Jon Eisenberg, and Ted Schmitt, THE NATIONAL ACADEMIES PRESS, Washington, D.C

BA/B.Sc. Fourth Semester
Defence and Strategic Studies
Defence Studies and Disaster Management(IV)

| Programme/Class : Degree | Year: 2 | Semester: IV |
|--|--|----------------|
| Subject: Defence and Strategic Studies | | |
| Course Code: DSS 403 | Course Title : Defence Studies and Disaster Management(IV) | |
| Course out Comes: To provide students an understanding the need for studying the disaster management. To create awareness about disaster prevention and risk reduction. To establish relationship between disasters and developments. To gain knowledge on disaster management and Role of Information and Communication Technology in India to prevent disaster's. | | |
| Credits:03 | Core compulsory/ elective | |
| Maximum marks: 25+75 | Minimum passing marks: 33 | |
| Total numbers of lectures: 45 | | |
| Unit | Topic | No. of Lecture |
| I. | Basic principles of Disaster Management, Disaster Management Policy's. Community Based Disaster Management, Principles of Community Based Disaster Management. | 10 |
| II. | Disaster Management in India: National Policy on Disaster Management, Disaster Management Act 2005- Institutional and Financial Mechanism, National Disaster Management Authority. | 10 |
| III | Role and Responsibilities of Local, State and Central administration, Role and Responsibilities of Police , Para military and Armed Forces. | 09 |
| IV. | International Agencies, NGO's, Community Based Organization their role and responsibilities. | 06 |
| V. | Role of Information and Communication Technology in Disaster Management, Early Warning Systems, Indian National Centre for Ocean Information Services. | 10 |

BOOKS SUGGESTED

1. Aapda Prabandhan, Chandra Prakash Shukl, Aavishkar Publisher's, New Delhi(Hindi).
2. Disaster Management in India, evolution of Institutional Arrangements and Operational Strategies, Mohan Kanda, Bio-Green Books, New Delhi.
3. Aapda Prabandhan, Shivgopal Mishr, Prabhat Prakashan Pvt. Ltd., New Delhi(Hindi).
4. Disaster Management and Information Technology Professional Response and Recovery Management in the Age of Disasters, Hans Jochen Scholl, Eric E. Holdeman, F. Kees Boersma, Springer Publication.
5. Disaster Management, H . S. Garg, SBPD Publication, Agra (Hindi).
6. Prakritik Aapda Karan evm Bachav, Harishchandra Singh, Greenleaf Publication, Varanasi(Hindi).
7. Disaster Management in India, Sunil R Hegde, Notion Press, New Delhi.

8. Disaster Management, P. S. Negi , Adhyyan Books, New Delhi(Hindi).
9. Disaster Management, Harsh K Gupta, Universities Press, New Delhi.