



Centre for Disaster Risk Reduction
ISLAMIC UNIVERSITY OF SCIENCE & TECHNOLOGY
KASHMIR

Minutes of First Board of Studies (BoS)

The first Board of Studies (BoS) meeting of the Centre for Disaster Risk Reduction (CDRR), Islamic University of Science and Technology (IUST), was held on December 27, 2024, in the meeting room of the Department of Food Science and Technology to discuss key agenda items. The external/ Internal members critically reviewed the proposed Ph.D. Programme Entrance syllabus, Ph.D. Programme Coursework syllabus, and syllabus for Multidisciplinary Courses to be offered by the Centre for Disaster Risk Reduction. The members provided some valuable inputs to enhance course structure, content, and alignment with interdisciplinary research goals. Key decisions include revisions to course titles, restructuring of syllabus components, and inclusion of additional topics to address emerging needs in disaster sciences. The meeting concluded with an emphasis on maintaining uniformity in course templates, clear objectives, and outcomes to ensure academic excellence and relevance.

The following members attended the meeting:

1. Dr. Aabid Hussain Shalla, Dean, School of Sciences, (Chairman)
2. Prof. Shakeel Ahmad, Visiting Professor IUST (AC Nominee)
3. Dr. Amir Ali Khan, Associate Professor, National Institute of Disaster Management (VC Nominee/ External Expert)
4. Dr. Reyaz Ahmad Dar, Assistant Professor, University of Kashmir (VC Nominee/ External Expert)
5. Dr. Irfan Maqbool Bhat, Coordinator, CDRR (Convener)
6. Dr. Tariq Abdullah, Assistant Professor, Dept. of Planning & Geomatics (Member)
7. Mr. Mohammad Saleem, Assistant Professor, Dept. of Planning & Geomatics (Member)
8. Mr. Waseem Qader, Assistant Professor, CDRR (Member)

Key agenda items that were discussed in the BoS meeting:

1. Ph.D. Entrance Syllabus for Ph.D. Programme in Disaster Sciences.
2. Ph.D. Coursework Syllabus for Ph.D. Programme in Disaster Sciences.
3. Syllabus for Multidisciplinary Courses to expand multidisciplinary learning opportunities.

(Signatures of members)

Handwritten signatures in blue ink are visible at the bottom of the page, corresponding to the members listed above. The signatures are: Aabid Hussain Shalla, Shakeel Ahmad, Amir Ali Khan, Reyaz Ahmad Dar, Irfan Maqbool Bhat, Tariq Abdullah, Mohammad Saleem, and Waseem Qader.

Following suggestions proposed by the BoS members were endorsed for drafting the syllabus of Ph.D. Entrance, Ph.D. Coursework, and Multidisciplinary Courses in Disaster Sciences:

1. Ph.D. Entrance Syllabus for the Ph.D. Programme in Disaster Sciences

- 1.1. On the recommendations of the expert members Title of Unit-II of Part-A was changed from "Research Methodology & Data Analysis" to "Research Methodology". Moreover, a separate Unit-III titled "Data Analysis and Modelling" was added in Part-A.
- 1.2. Inclusions of "Data models – raster and vector, processing and analysis, data analysis and modelling in GIS – Types of GIS Modelling, Digital Elevation Model (DEM)" in Unit-III were proposed and approved subsequently.
- 1.3. Inclusion of additional Unit-IV on "Computer Fundamentals and Quantitative Aptitude" in Part-A was proposed and approved subsequently.
- 1.4. Reorganization of Unit-IV (Remote Sensing & Geographic Information System) of Part-A into Unit-II of Part-B i.e., Subject Specific Core Paper was proposed and subsequently approved.
- 1.5. Inclusion of Unit-IV (Governance in Disaster Risk Reduction) into Unit-I (Hazard, Vulnerability, and Risk Assessment) in Part-B i.e., Subject Specific Core Paper was proposed and approved subsequently.
- 1.6. Title of Unit-III was modified from "Basics of Geomorphology" to "Geomorphology".
- 1.7. Title of Unit-IV was modified from "Engineering Geosciences" to "Engineering and Environmental Geosciences".
- 1.8. A new section on the Fundamental Concepts of Environmental Geosciences was proposed and incorporated in Unit-IV viz., Engineering and Environmental Geosciences.

2. Ph.D. Coursework Syllabus for the Ph.D. Programme in Disaster Sciences

- 2.1. Inclusion of "primary and secondary data sources, data network" into Unit-II (Data Collection) of Core Paper-II viz., Research Methodology (DRR901C) was proposed and approved subsequently.
- 2.2. Inclusion of "standard deviation, parametric and non-parametric tests, Pearson's r, Chi-Square, t-Test" into Unit-III (Data Processing and Analysis) of Core Paper-II viz., Research Methodology (DRR901C) was proposed and approved subsequently.
- 2.3. Title of Unit-IV of Core Paper-II, "Research Methodology" (DRR901C), was modified from "Data Presentation in Disaster Sciences" to "Data Interpretation and Dissemination".
- 2.4. Title of Core Paper-III (DRR902C) was modified from "Recent Advances in Disaster Sciences" to "Advances in Disaster Sciences".

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- 2.5. Inclusion of "National policy and plan, disaster management act, disaster management authorities; NDMA, SDMA, NDRF, etc. Yokohama Declaration, Hyogo Framework for action, Sendai framework for DRR and its mid-term review" into Unit-I of Advances in Disaster Sciences (DRR902C) was proposed and approved subsequently.
- 2.6. Inclusion of "Hazard classifications, types of vulnerability, critical infrastructure, and resilience" into Unit-II of Advances in Disaster Sciences (DRR902C) was proposed and approved subsequently.
- 2.7. Title of Unit-IV of Core Paper-III "Advances in Disaster Sciences" was modified from "Model Applications in DRR" to "Disaster Vulnerability and Risk Assessment".
- 2.8. Title of a Research Centric Course (DRR903C) was modified from "Seminar on Recent Developments in the Area of Research" to "Research Communication".
- 2.9. Redistribution of marks in the Research Centric Course (DRR903C) "Research Communication" was proposed and approved as per following sequence:
Write-up = 40; Presentation = 40; and Viva = 20
- 2.10. Inclusion of "Earthquake Basic Terminology, Case studies of some devastating earthquakes in the recent past: 2004 Japan Earthquake, 2005 Kashmir Earthquake, 2015 Nepal Earthquake, & 2024 Turkey Earthquakes. Historical Background of Earthquakes in Jammu and Kashmir" to Unit-I of Discipline Centric Elective Course (E) Paper-V, "Seismology & Earthquake Engineering" (DRR904E) was proposed and approved subsequently.
- 2.11. Inclusion of "Types of floods, urban flooding, precipitation extremes, case study of Kashmir, 2014 flood, to Unit-I, while "Smart cities, management of river channels, implications of flooding on infrastructure" to Unit-II of a Discipline Centric Elective Course (E) Paper-IV, "Flood Risk Management" (DRR905E) was proposed and approved subsequently.
- 2.12. Inclusion of "Monitoring techniques for landslide-prone areas (ground-based monitoring and remote sensing techniques, LiDAR, SAR Interferometry)" to Unit-II of a Discipline Centric Elective Course (E) Paper-VII, "Landslide Hazard Assessment" (DRR906E) was proposed and approved subsequently.

3. Multidisciplinary Courses

- 3.1. Framework with clear course objectives and outcomes of the proposed multidisciplinary courses was proposed and approved subsequently.

PS

Harish

Anna

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Sabir

Prakash

- 3.2. Unit names in CDRR100MD course, "Understanding Natural Disasters" were proposed and approved as given below;

Unit-I: Fundamentals of Disasters

Unit-II: Geological Disasters

Unit-III: Hydro-meteorological Disasters

- 3.3. Unit names in CDRR200MD course, "Managing Disasters" were proposed and approved as given below;

Unit-I: Disaster Management

Unit-II: Frameworks in Disaster Management

Unit-III: Disaster Management Plans


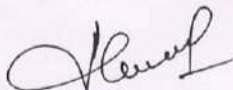
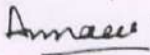

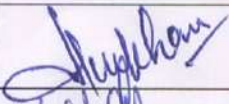
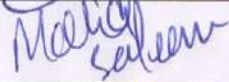
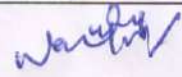
- 3.4. Unit names in CDRR300MD course, "Strategies in Disaster Risk Reduction" were proposed and approved as given below;

Unit-I: Disaster Risk Reduction

Unit-II: Disaster Preparation

Unit-III: Training and Capacity Building

- 3.5. On the recommendations of the BoS member's reading material was added at the end of each course contents.

S.No.	Name & Designation	Signature
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7.	Dr. Tariq Abdullah (Member) Head, DP&G, IUST	
8.	Mr. Mohammad Saleem (Member) Assistant Professor, DP&G, IUST	
10.	Mr. Waseem Qader (Member) Assistant Professor, CDRR, IUST	
11.	Dr. Irfan Maqbool Bhat (Convener) Coordinator, CDRR, IUST	