

DIPLOMA (SAFETY MANAGEMENT-DISASTER) – PART TWO

Optional Early Certificate: - N/A

Syllabus:-

Sr. No.	Module Code	Name of Module	Credits	Total Marks
1	BSMD121	Risk Assessment and Vulnerability Analysis	5	100
2	BSMD122	Fundamental of Information Technology	5	100
3	BSMD123	Entrepreneurship Development	5	100
4	BSMD124	Disaster Management in India	5	100
5	BSMD125	Practical & Project Work	4	100

Module Name: RISK ASSESSMENT AND VULNERABILITY ANALYSIS

Unit I: Introduction

1. Risk Concepts, Elements Of Risk, Perception of Risk, Acceptable risk, Requirements in Risk assessment
2. Risk Reduction-Mainstreaming “Risk”
3. Role of science and technology in Disaster Risk Reduction
4. Strategies of Risk reduction, International Mobilization of Risk reduction

Unit II: Risk Assessment & Reduction

1. Risk analysis techniques; Process of Risk assessment, Analytical systems for risk assessment, Natural hazard/ risk assessment, Understanding climate risk, Mapping of risk assessment, Decision making for risk reduction, Problems in risk assessment
2. Participatory risk assessment - Rationale for people’s participation, Role of civil society organizations, Impact of Globalization, Activities and roles for the community action Risk reduction, Participatory risk assessment methods

Unit III: Vulnerability

1. Observation and perception of vulnerability- Vulnerability Identification, Vulnerability types and dimensions, Vulnerability- Social factors and economic factors
2. Vulnerability to shanty settlements; Vulnerability in the city, Risk in Urban areas, Issues in urban planning, Initiatives for risk reduction in India

Unit IV: Strategic development for Vulnerability reduction

1. Physical & Social infrastructure for Vulnerability reduction
2. Interactive areas for Vulnerability reduction & Policy making
3. Hazard resistant designs and construction
4. Systematic management and Strategic planning for vulnerability reduction

Module Name: FUNDAMENTAL OF INFORMATION TECHNOLOGY

- 1. Information Technology (IT) & Society:** Information, information processing & Information Technology. Evolution of IT. IT business and entrepreneurship, education, communication, entertainment, healthcare, agriculture, and its contribution to India's development. Government Initiatives: Particular initiatives – AADHAR, E-Panchayat, National Knowledge Network.
- 2. Information Handling:** Devices assisting IT with special focus on Computers and Mobiles. Components of computer: Hardware and Software. Connecting and Configuring External Devices – like Printer, scanner, projectors etc. Hardware Connectivity Options – Ports, Wi-Fi, Bluetooth etc.
- 3. Document Preparation & Presentation:** Document preparation and presentations using tables, pictures, graphs, animations, audio and video contents. Use of shortcut keys. Ways to make effective presentations. Use of references and citations. Document format and their conversion.
- 4. Internet, Security & Legal Aspects:** WWW, Basics of webpage, Social network sites. Effective Searching. Popular Online Applications - e-ticketing, e-payment. Email & internet Forums. Issues – virus, malware, spam, phishing, copyright, plagiarism, cybercrime; Protective measures: password, https; Cyber Laws – IT Act. Open source philosophy. Licensing and domain of open source technology. Open source software development. Commonly used open source technologies.
- 5. Library and Information Resource Centers:** E-Information Resources: Concept and types (e-books, e-journals, on-line databases: subscribed, free and open access databases). Institutional Repository: concepts, components. Library Systems – Introduction to library, Library and Information sciences (User and reference services , Current Awareness Service, Selective Dissemination of Information, Online Information Bulletin Board), Call Number (Class Number, Book Number, Location Number). Arrangement of Information Resources: Call Number (Class Number, Book Number, Location Number), On-line Public Access Catalogue (Data Fields and elements, search options, Reservation facilities). Bibliographic Standards for Citation – Modern Language Association Style, American

Psychology Association style. Article Reference, Book Reference, Conference Reference, Web Resource Reference.

Module Name: ENTREPRENEURSHIP DEVELOPMENT

1. ENTREPRENEURIAL BEHAVIOUR

- Programme Clarity-Sharing Expectations and Unfreezing
- Data Collection about self
- Introduction to Need System and Motivational Pattern of Entrepreneur
- Risk Taking Behavior
- Analyzing Motive Strength
- Personal Efficacy
- Conceptualizing Entrepreneurial Values
- Achievement Planning
- Tolerance to ambiguities and commitment to entrepreneurial goal
- Leadership and Influencing ability entrepreneurial confidence
- Entrepreneurial goal setting

2. ENTERPRISE LAUNCHING

- Environmental Analysis and Market Study
- Project Selection/Formulation and Presentation
- Project Appraisal
- Financial Analysis
- Forms of Enterprise
- Foreign Collaboration

3. ENTERPRISE MANAGEMENT

- Basic Management Concepts
- Production Management
- Materials Management
- Financial Management Including Costing and Accounting Practices
- Marketing Management
- Personnel Management
- Problem Solving and Innovation
- Business Laws

Module Name: DISASTER MANAGEMENT IN INDIA

1. Disaster Profile of India – Mega Disasters of India and Lessons Learnt
2. Disaster Management Act 2005 – Institutional and Financial Mechanism
3. National Policy on Disaster Management
4. National Guidelines and Plans on Disaster Management
5. Role of Government (local, state and national)
6. Non-Government and Inter Governmental Agencies

Module Name: PRACTICAL & PROJECT WORK