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Sudhiranjana Lahiri Mahavidyalaya
 Add-On-Course - Department of Defence ~~Studies~~
~~Course~~ ~~Course~~ Course title - Disaster Management

The Department of Defence Studies, Sudhiranjana Lahiri Mahavidyalaya recently introduced a 30 hours add on Course "Disaster Management". The main objective of this Certification Course demonstrates competency in the fundamentals of creating and managing worksheets and workbooks, creating cells and ranges, creating tables, applying formulas and functions & creating charts and objects.

Learning Object: - The Course covers the ability to Create, read, update and delete data in workbook with multiple sheets and use a graphic element to represent data visually.

Course Include:- The ultimate goal of the Disaster-Management leader is to minimize the event's impact something that involves preparedness, response, recovery & mitigation.

Requirements: - The aspirant must have completed a bachelors in any discipline with a minimum of 50% (45% for SC/ST/PWD/DA Categories) or the equivalent in CGPA from a recognized university on board.

Prerequisites: - Aspiring candidates must pass a discipline from a

Course Outline

Unit: I Definition and types of disaster

Hazards and Disasters, Risk and Vulnerability in Disasters, Natural and Man-made disasters, earthquakes, floods drought, landside, land subsidence, cyclones, volcanoes, tsunami, avalanches, global climate extremes. Man-made disasters: Terrorism, gas and radiations leaks, toxic waste disposal, oil spills, forest fires.

Unit: II Study of Important disasters

Earthquakes and its types, magnitude and intensity, seismic zones of India, major fault systems of India plate, flood types and its management, drought types and its management, landside and its managements case studies of disasters in Sikkim (e.g) Earthquakes, Landside). Social Economics and Environmental impact of disasters.

Unit: III Mitigation and Management techniques of Disaster

Basic principles of disasters management, Disaster Management cycle, Disaster management policy, National and State Bodies for Disaster Management, Early Warning Systems, Building design and construction in highly seismic zones, retrofitting of buildings.

Unit IV Training, awareness program and project on disaster management

Training and drills for disaster preparedness, Awareness generation program, Usages of GIS and Remote sensing techniques in disaster management, Mini project on disaster risk assessment and preparedness for disasters with reference to disasters in Sikkim and its surrounding areas.

Instructions:-

Saugata Bhaduri

Dipika Lama

Subrata Ray

Conclusion :- ! Disaster Management is crucial for minimizing the impact of disasters on lives, property and the environment.

: It involves a comprehensive approach encompassing risk assessment, preparedness, response, recovery and mitigation.

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COURSE NAME : DISASTER MANAGEMENT

SESSION: 2022-23

Duration: 1-1-2023 - 28-1-2023

Time: 4:00 P.M - 6:00 P.M (EXCLUDING SUNDAY)

UNIT

WEEK 1 : DEFINITION AND TYPES OF DISASTER

Jan 17th → Hazards and Disasters, Risk and Vulnerability in Disasters - SAUGATA BHADURI

Jan 18th → Natural & Man-made disasters → DIPIKA LAMA

UNIT 2 : STUDY OF IMPORTANT DISASTERS

Jan 19th → Earthquakes and its types, magnitude & Intensity → SUBRATA RAY

Jan 20th → Flood types and its management, drought types and its management, landslide and its management
SAUGATA BHADURI

Jan 21st → CASE STUDIES of disasters in Sikkim → DIPIKA LAMA

Jan 23rd → MITIGATION AND MANAGEMENT
| TECHNIQUES OF DISASTER
| ↳ Basic principles of disasters
management, Disaster Management Cycle
SUBRATA RAY

Jan 24th → Disaster Management Policies, National and State Bodies for Disaster Management → SAUGATA BHADURI

Jan 25th → Early Warning Systems → DIPIKA LAMA

UNIT 4 : TRAINING, AWARENESS PROGRAM AND PROJECT ON DISASTER MANAGEMENT

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Jan 27th → Usage of GIS and Remote
Sensing Technique in Disaster
management → SUBRATA RAY

Jan 28th → Project work Valedictory
Session and Certificate Distribution

Sudhiranjan Lahiri Mahavidyalaya, Majdia

Department of Defence Studies

Course Title: CYBER SECURITY

Course Overview: The course entitled CYBER SECURITY is a critical aspect of modern digital life and it aims to provide participants with comprehensive understanding of different types of threats and implementing robust security practices. However, through this course individuals and organisations can better protect themselves against the potentially destructive effects of cyber attacks.

Objectives of the course:

- 1) It aims to educate individuals about potential cyber threats, best practices for safeguarding sensitive information and how to respond effectively in case of a security incident.
- 2) To have an overview of the cyber laws and concepts of cyber forensics

Prerequisites: The participants must be from any semesters but the priority will be given to the students of Defence Studies and the course is offered to limited candidates.

Course Content: (30 hrs)

Week 1:

- a. Introduction to Cyber Security –concepts
- b. Challenges and Constraints
- c. Key concepts in cyber security: Confidentiality, Integrity, Availability
- d. Cyber security Best Practices

Week 2:

- a. Types of Cyber Crime
- b. Hacking
- c. Password Cracking
- d. Insecure Network Connection
- e. Theft at Tele Communication Services

Week 3:

- a. Impact of Cyber Crime on National Security

- b. Impact on Armed Forces & Law enforcement Agencies' Information Systems
- c. Impact on National Economy/Market
- d. Impact on Citizen Security

Week 4:

- a. Detection and Prevention methodologies
- b. Risk Identification –
- c. Levels of Protection – Cyber Defensive Measures,
- d. Cyber Laws
- e. Indian Cyberspace,
- f. National Cyber Security Policy 2013

Week 5:

- a. Detection and Prevention methodologies
- b. Risk Identification
- c. Levels of Protection – Cyber Defensive Measures
- d. Cyber Laws – Indian Cyberspace, National Cyber Security Policy 2013
- e. Impact of Cyber Crime on National Security - Impact on Armed Forces & Law enforcement Age

Week 6:

- a. Privacy Issues
- b. Basic Data Privacy Concepts
- c. Data Privacy Attacks,
- d. Data linking and Profiling,
- e. Privacy Policies and their specifications, privacy policy language, Privacy in different domains-medical, financial etc.

Assessment Pattern:

MCQ: 60 marks

Project making: 20 marks

Class attendance: 10 marks

Question and Answer round: 10 marks

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Instructors:

- 1) Dipika Lama
- 2) Saugata Bhadhuri
- 3) Subrata Ray

Conclusion:

By the end of this course the participants will be benefited and will be able to differentiate various cyber security threats. This course will create awareness as cyber security is an ongoing journey that demands attention, resources and dedication to effectively combat the dynamic landscape of cyber threats.

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Course Name: CYBER SECURITY

Session: 2021-22

Duration: January 3, 2022, to January 22, 2022

Time: 4:00 PM – 6:00 PM (excluding Sundays)

Week 1: Introduction to Cyber Security

- **Day 1 (Jan 3): Introduction to Cyber Security-DIPIKA LAMA**
 - Concepts, challenges, and constraints
 - Overview of cyber threats and vulnerabilities
- **Day 2 (Jan 4): Key Concepts in Cyber Security-SUBRATA RAY**
 - Confidentiality, Integrity, Availability (CIA triad)
 - Principles of cyber security best practices
- **Day 3 (Jan 5): Cyber Security Frameworks and Standards-SAUGATA BHADURI**
 - Overview of popular frameworks (e.g., NIST, ISO)
 - Compliance and regulatory requirements

Week 2: Types of Cyber Crime

- **Day 4 (Jan 6): Types of Cyber Crime Overview- SUBRATA RAY**
 - Common cyber crimes and their impact
 - Legal and ethical considerations
- **Day 5 (Jan 7): Hacking and Exploitation Techniques-DIPIKA LAMA**
 - Methods and motivations of hackers
 - Case studies of notable hacking incidents
- **Day 6 (Jan 10): Password Cracking and Social Engineering-DIPIKA LAMA**
 - Techniques for password cracking
 - Social engineering tactics and prevention strategies
- **Day 7 (Jan 11): Insecure Network Connections and Mitigation-SUBRATA RAY**
 - Vulnerabilities in network protocols
 - Securing network communications
- **Day 8 (Jan 13): Theft at Telecommunication Services-SUBRATA RAY**
 - Cyber attacks targeting telecommunications
 - Impact on communication networks and services

Week 3: Impact of Cyber Crime on National Security

- **Day 9 (Jan 15): Impact on Armed Forces & Law Enforcement Agencies' Information Systems- DIPIKA LAMA**
 - Security challenges faced by defense and law enforcement
 - Securing critical infrastructure
- **Day 10 (Jan 17): Impact on National Economy/Market-SAUGATA BHADURI**
 - Economic implications of cyber attacks
 - Case studies of cyber attacks on businesses and industries
- **Day 11 (Jan 18): Impact on Citizen Security and Public Safety-DIPIKA LAMA**
 - Cyber threats to individuals and communities
 - Protecting personal information and privacy

Week 4: Detection and Prevention Methodologies

- **Day 12 (Jan 19): Risk Identification and Assessment-DIPIKA LAMA**
 - Identifying cyber security risks and threats
 - Risk assessment methodologies
- **Day 13 (Jan 20): Levels of Protection – Cyber Defensive Measures-SAUGATA BHADURI**
 - Implementing defensive measures and controls
 - Incident response and management