



Course Specification

Course Title: Disaster and risk management

Course Code: 222ENW-2

Program: Environmental Protection Technology Diploma

Department: --

College: Applied College in Al-Aarda

Institution: Jazan University

Version: 1st

Last Revision Date: 20/01/2024

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A. General information about the course:

1. Course Identification

1. Credit hours: (2)

2. Course type

A. ☐ University ☐ College ☒ Program ☐ Track ☐ Others
B. ☒ Required ☐ Elective

3. Level/year at which this course is offered: (Level 4, 2nd year)

4. Course general Description:

Introducing students to environmental risks and disasters, their types, causes of their occurrence, ways to mitigate their losses, how to manage them, and the most important techniques that can be relied upon in disaster management

5. Pre-requirements for this course (if any):

NA

6. Co-requisites for this course (if any):

NA

7. Course Main Objective(s):

This course aims at giving the student knowledge in the fields:

- 1) Mention the difference between hazards and disasters
- 2) Explains methods of disaster management
- 3) Describes hazards and disasters and the reasons for their occurrence.
- 4) Shows ways to mitigate disaster losses
- 5) Able to use maps, aerial photographs, and satellite visuals to locate hazards

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	30	100 %
2	E-learning	---	---
3	Hybrid <ul style="list-style-type: none"> Traditional classroom E-learning 		---
4	Distance learning	---	---

3. Contact Hours (based on the academic semester)





No	Activity	Contact Hours
1.	Lectures	30
2.	Laboratory/Studio	---
3.	Field	---
4.	Tutorial	---
5.	Others (specify)	---
Total		30

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Define the concepts of natural and anthropogenic disasters and risk	K1	Lectures ,class assignments	Quizzes, Final exam ,individual assessment, Mid term exam
1.2	Understand disaster resilience, risk mitigation, and recovery policies as they arise from natural hazards around the globe	K2	Lectures ,class assignments	Quizzes, Mid term Exam ,Final exam
2.0	Skills			
2.1	Evaluate the principles and practices of disaster risk reduction and management	S1	Lectures ,class assignments	group work, quizzes , Final exam, Mid term exam
2.2	Analyze disaster resilience, risk mitigation, and recovery policies	S1	Lectures ,class assignments	Assignments Group work
3.0	Values, autonomy, and responsibility			
3.1	Work with multi-disciplinary teams to communicate effectively both in	V1	Discussions ,Group presentations	Assignments final Exam





Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
	written and oral forms.			

C. Course Content

No	List of Topics	Contact Hours
1.	· Introduction to Disaster and Risk Management Understanding disasters, hazards, and risks.	2
2.	· Risk Assessment and Mitigation Identifying and assessing hazards and risks.	2
3.	• Disaster Preparedness and Planning Developing disaster management plans.	2
4.	• Disaster Response and Emergency Operations Incident command systems and emergency response coordination. Search and rescue operations. Emergency medical services and public health management.	3
5.	• Disaster Recovery and Rehabilitation Post-disaster damage assessment and recovery planning. Infrastructure restoration and reconstruction. Socio-economic recovery and livelihood restoration.	3
6.	• Community Resilience and Capacity Building Engaging communities in disaster risk reduction. Community-based disaster risk management.	3
7.	• International Frameworks and Cooperation in Disaster Management International frameworks and agreements for disaster risk reduction.	3
8.	• Environmental Management and Climate Change Adaptation Integrating environmental considerations into disaster management. Climate change adaptation strategies.	3
9.	• Psychological Support and Mental Health in Disaster Management Understanding psychological impacts of disasters. Psychological first aid and mental health support.	3
10.	• Case Studies and Best Practices • Analysis of real-world disaster management case studies. • Lessons learned from past disasters and emergencies. • Best practices and innovative approaches in disaster and risk management.	3
11.	• Revision	3
Total		30



D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	Continues	20 %
2.	Mid-term exam.	9 th -10 th week	30 %
3.	Assignments	Continues	10 %
4.	Final Exam	16 th -18 th week	40 %

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	<ul style="list-style-type: none"> Baas, Stephan, Disaster risk management systems analysis : a guide book, 2008, Rome : Food and Agriculture Organization of the United Nations
Supportive References	<ul style="list-style-type: none"> ("Disaster Reduction; Living in harmony with nature", Julio Kuroiwa, 2004)

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	· A Lecture room for group of 60 students which has a teaching board and projector and internet access.
Technology equipment (projector, smart board, software)	· A data show with smart Board. · Access to internet.

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Targeted Students + Diploma Coordinator	<ul style="list-style-type: none"> Student questionnaires. Assessment of course results and report by Diploma Coordinator. A report from Quality committee member in the department



Assessment Areas/Issues	Assessor	Assessment Methods
		<ul style="list-style-type: none"> · An assessment report from assessment and evaluation Unit in the collage.
Effectiveness of Students' assessment	Targeted Students + Diploma Coordinator	<ul style="list-style-type: none"> · Student questionnaires. · Assessment of course report by Diploma Coordinator. · A report from Quality committee member in the department · An assessment report from assessment and evaluation Unit in the collage.
Quality of learning resources	Targeted Students + Diploma Coordinator	<ul style="list-style-type: none"> · Student questionnaires. · Assessment of course report by Diploma Coordinator. · A report from Quality committee member in the department · An assessment report from assessment and evaluation Unit in the collage.
The extent to which CLOs have been achieved	Targeted Students + Diploma Coordinator	<ul style="list-style-type: none"> · Student questionnaires. · Assessment of course results and report by Diploma Coordinator. · A report from Quality committee member in the department · An assessment report from assessment and evaluation Unit in the collage.

Assessors (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	03\06\2024

