Universitas Gadjah Mada

Faculty of Agriculture
Soil Science Department

Course Syllabus

Course Code	Course Name	Credits	Semester	Course Status	Requirement
PNT 20193037	Disaster Risk Reduction	3	-	Compulsory	-

Learning Outcome	1	Students can explain the scope and meaning of terms related to disasters
	2	Students can explain the principles in disaster risk reduction
	3	Students are able to conduct surveys and identify disasters in the field
	4	Students are able to analyze in order to make disaster risk reduction strategies

Course Description

The Disaster Risk Reduction course covers a range of subjects related to disaster risk reduction and management in the agricultural sector. The course is designed to equip learners with the necessary skills and knowledge to reduce the impact of disasters on agriculture and improve the resilience of agricultural systems.

Course Content

1. Introduction to Disaster Risk Reduction and Management
2. Disaster Risk Reduction and Management Frameworks and Approaches
3. Agricultural Systems and Disaster Risk Reduction
4. Vulnerability and Risk Assessment in Agriculture
5. Early Warning and Monitoring Systems for Agricultural Disasters
6. Emergency Response and Recovery in Agriculture
7. Mitigation and Adaptation Measures for Agricultural Disaster Risk Reduction
8. Policy and Institutional Frameworks for Agricultural Disaster Risk Reduction and Management
9. Participatory Approaches and Community-based Disaster Risk Reduction in Agriculture.

Reference

1. Disaster Risk Reduction for the Agriculture Sector, edited by Rajib Shaw and Yukiko Takeuchi (2018): This book provides an overview of disaster risk reduction and management in the agriculture sector, including case studies from different regions of the world.
2. Agriculture and Natural Disasters: Vulnerability and Mitigation, edited by Anil K. Gupta, Suresh Chandra Babu, and Sergio O. Saldaña-Zorrilla (2015): This book examines the impacts of natural disasters on agriculture, and discusses strategies for mitigating these impacts and building resilience in agricultural systems.

	3. Climate Change and Agriculture: An Economic Analysis of Global Impacts, Adaptation and Distributional Effects, edited by Robert Mendelsohn and Ariel Dinar (2012): This book provides an economic analysis of the impacts of climate change on agriculture, and discusses the role of disaster risk reduction and management in adapting to these impacts. 4. Resilient Agriculture: Cultivating Food Systems for a Changing Climate, edited by Laura Lengnick (2015): This book focuses on building resilience in agricultural systems in the face of climate change and other stressors, including through the integration of disaster risk reduction and management. 5. Disaster Risk Reduction in Agriculture: Perspectives and Experiences, edited by H. David Cooper, David G. McNeill, and Mark A. N. Vigoroso (2014): This book provides an overview of disaster risk reduction and management in agriculture, and includes case studies from different regions and sectors of agriculture.
Lecturer	1. Prof. Dr.rer.nat. Junun Sartohadi, M.Sc 2. Nur Ainun Harlin Jenie Pulungan, S.Si., M.Sc., Ph.D.