

## SUSTAINABLE MINERAL DEVELOPMENT FOR GROWTH

Code	Credit Hour
MinE-827	3-0

### CourseDescription

Sustainable development in the Minerals industry context, Sustainable management of risk in Industry, Environmental Management in Mining, Community Aspects of resource development, Sustainable development in the Minerals industry - Tools and Integration, Mine Occupational Health and Safety Management, Geographic information systems for mineral development, Community Research methods for the resource sector, Sustaining Growth and Development, The Role of Governments in mineral development strategy, Supporting Community Growth in mineral development projects, Understanding industry needs and mineral strategy, The Mining Industry's International Nature: A Competitive World, Developing Geoscience Information, Increasing Certainty for Developers, Employing Residents: Improving Labour Market Skills, Addressing Social and Environmental Responsibilities, Conducting Mineral Development in Accordance with Policy and Legislation, Understanding Mineral Development Impacts and Benefits, Resolving Problems and Issues: Cooperation and Collaboration.

### TextBook:

1. Linda Starke, (2003), Breaking New Ground: Mining, Minerals and Sustainable Development.
2. Juan P. Camus, Management of Mineral Resources, Creating Value in the Mining Business.

### ReferenceBook:

1. Thomas F. Torries, Evaluating Mineral Projects: Applications and Misconceptions.
2. Ian C. Runge, Mining Economics and Strategy.

### Prerequisites

Nil

### ASSESSMENT SYSTEM FOR THEORY

Quizzes	15%
Assignment	5%
Mid Terms	30%
ESE	50%

### TeachingPlan

<b>Week No</b>	<b>Topics</b>	<b>LearningOutcomes</b>
1	Introduction	CourseOutline,objectives,teachingplan,assessmentmethod, conceptsreview. Introduction to sustainable mineral development for growth
2-4	Introduction to Sustainable Development in the Minerals Industry	Sustainable development in the Minerals industry context, The role of governments in mineral development strategy, The mining industry's international nature: a competitive world
5-6	Sustainable Management and Environmental Responsibility	Sustainable management of risk in industry, Environmental management in mining, Addressing social and environmental responsibilities
7	Community and Resource Development	Community aspects of resource development, Supporting community growth in mineral development projects, Employing residents: improving labor market skills
8	Tools and Integration in Sustainable Development	Sustainable development in the minerals industry - tools and integration, Geographic information systems for mineral development, Developing geoscience information
9	<b>MIDTERM EXAM</b>	
10-12	Occupational Health and Safety in Mining	Mine occupational health and safety management, Conducting mineral development in accordance with policy and legislation, Understanding industry needs and mineral strategy
13-14	Research Methods and Community Involvement	Community research methods for the resource sector, Understanding mineral development impacts and benefits, Resolving problems and issues: cooperation and collaboration
15	Sustaining Growth and Development	Sustaining growth and development, Increasing certainty for developers
16-17	Integration and Final Project Presentations	Integration of all topics covered, Final project presentations and discussions
18	<b>END SEMESTER EXAM</b>	