Syllabus

Module 1: Challenges and opportunities

1.0 Introduction to the course
1.1 Short history of oil, gas, and mining
1.2 Challenges and opportunities of oil, gas, and mining
1.3 The decision chain of natural resource management (I)
1.4 The decision chain of natural resource management (II)

Module 2: Political economy of natural resources

2.0 Introduction to Module 2
2.1 How natural resources shape and are shaped by political context
2.2 Corruption trends in the extractive sector
2.3 International governance initiatives
2.4 Natural resources and the broader governance framework
2.5 Transparency and accountability
2.6 (Optional) Towards evidence driven policy reform using the Resource Governance Index

Module 3: Fundamentals of oil, gas, and mining: industry considerations and policy implications

3.0 Introduction to Module 3
3.1 From oil well to car - market, players, and extraction process in oil
3.2 From mine to mobile phone - market, players, and extraction process in mining
3.3 How a company decides to invest in a project
3.4 The project development process
3.5 Evolving technology
3.6 (Optional) Fundamentals of energy and petroleum

Module 4: Legal overview

4.0 Introduction to Module 4
4.1 Legal and regulatory frameworks for extractive industries
4.2 Allocation of rights
4.3 Implementation and monitoring of legal frameworks
4.4 International law and the extractive industries
4.5 State-owned enterprises: Role and governance
4.6 (Optional) Regional harmonization: Case studies from Africa

Module 5: Fiscal regime design and revenue collection

5.0 Introduction to Module 5
5.1 Resource economics and fiscal regime principles
5.2 Fiscal instruments I: Royalty/tax systems
5.3 Fiscal instruments II: Contract-based systems
5.4 Fiscal regime implementation

Module 6: Anticipating and managing environmental issues

6.0 Introduction to Module 6
6.1 Environmental challenges and trends: oil and gas
6.2 Environmental challenges and trends: mining
6.3 Managing environmental challenges
6.4 Extractives and climate change
6.5 Environmental impact assessments and environmental due diligence

Module 7: Community rights

7.0 Introduction to Module 7
7.1 Social impact and engagement
7.2 Human rights and the global mining industry
7.3 Mining and vulnerable populations
7.4 Company-community agreements

Module 8: Artisanal mining

8.0 Introduction to Module 8
8.1 Introduction to artisanal and small-scale mining (ASM)
8.2 Challenges of ASM
8.3 ASM and gender
8.4 Tensions between artisanal and large-scale mining
8.5 Key opportunities and the way forward

Module 9: Revenue management

9.0 Introduction to Module 9
9.1 Challenges of revenue management
9.2 Policy responses: savings, spending, public debt, and earmarking
9.3 Natural resource funds
9.4 Revenue sharing and decentralization

Module 10: Investing in sustainable development: Economic linkages to the extractives sector

10.0 Introduction to Module 10
10.1 Introduction to economic linkages
10.2 Local employment
10.3 Local procurement
10.4 Enabling technology transfer
10.5 Downstream linkages

Module 11: Investing in sustainable development: Looking beyond extractives

11.0 Introduction to Module 11
11.1 Investing in investing
11.2 Leveraging extractive industries for infrastructure
11.3 Resource-for-infrastructure deals
11.4 (Optional) Integrated spatial planning

Module 12: Cross-cutting considerations and looking ahead

12.0 Introduction to Module 12
12.1 Political tripod and authorizing environment
12.2 Engaging citizens
12.3 Aligning extractive industries with the Sustainable Development Goals
12.4 Course wrap-up