

MADHYA PRADESH BHOJ (OPEN) UNIVERSITY,
Raja Bhoj Marg Kolar Road, BHOPAL (M.P.)



DIPLOMA IN ENERGY MANAGEMENT
(DEM)

(from Calendar Year 2023-24)

MADHYA PRADESH BHOJ (OPEN) UNIVERSITY,
Raja Bhoj Marg Kolar Road, BHOPAL (M.P.)

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Diploma in Energy Management DEM
Syllabus (TEE 70+ IA 30)

1st Year

Conventional Energy & Environmental Implication (70+30)

1. Energy Resources - An Overview
2. Energy Use and Impact on Environment
3. Conventional & Sustainable Energy
4. Energy Production and Consumptions

Fundamentals of Heat and Electricity (70+30)

1. Graphing Functions, Domain and Range
2. Polynomial and Rational Functions
3. Limits
4. Derivatives
5. Integration
6. Current and Resistance
7. Introduction to Magnetic Fields
8. Faraday's Law of Induction
9. Thermodynamics
10. Heat Transfer Mechanisms

Business Law (70+30)

1. Indian Contract Act, 1872 - Part I
2. Indian Contract Act, 1872 - Part II
3. Special Types of Contracts
4. Partnership Act, 1932
5. Sale of Goods Act, 1930
6. The Negotiable Instruments Act, 1881
7. The Consumer Protection Act, 1986
8. Companies Act, 2013

Renewable Energy Sources (70+30)

1. Introduction to Renewable Energy Resources
2. Solar Energy
3. Bio-Energy
4. Wind Energy
5. Other Renewable Energy Sources

Renewable Energy Technologies (70+30)

1. Solar Energy
2. Bio Energy
3. Wind Energy
4. Other Renewable Energy Technologies

Renewable Energy Economics (70+30)

1. Policy issues and economic implications.
2. The Energy Transition -Economic Development Co-relation.
3. Economic Rationale for renewables
4. Market situation
5. Accelerating energy transition to Renewables
6. Impact of renewable Energy Consumption on economics in India.

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Government Policies and Regulations (70+30)

1. Government Policies And Regulations
2. Laws And Acts Of Electricity In India
3. Regulations
4. State Governments Policies

Project Management (Operations) 200 (120+80)

1. Projects Overview
2. Projects Management Process
3. Projects Financing and Evaluation
4. Project Estimation and Economic Analysis
5. Organizing for Project
6. Project Planning
7. Networks for Project Management
8. Resource Levelling and Project Crashing
9. Project Implementation and Monitoring
10. Controlling Project
11. Projects Contracts Management
12. Management Risk in Projects
13. Project Quality Management
14. Software Project Management
15. Issues in Project Management

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DIPLOMA IN ENERGY MANAGEMENT

S. No.	Paper	Credit	Marks
First Year			
1	Conventional Energy & Environmental Implication	5	100 (70+30)
2	Fundamentals of Heat and Electricity	5	100 (70+30)
3	Business Law	5	100 (70+30)
4	Renewable Energy Sources	5	100 (70+30)
5	Renewable Energy Technologies	5	100 (70+30)
6	Renewable Energy Economics	5	100 (70+30)
7	Government Policies and Regulations	5	100 (70+30)
8	Project Management (Operations)	5	200 (170+30)

(M R
4/9/23

(Dr. Mukesh Chansariya)

4-9-23

4-9-23
(Dr. J. Sanyal)

4/9/23
(Dr. R. B. Tiwari)