



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore
Shri Vaishnav Institute of Social Sciences, Humanities and Arts
Choice Based Credit System (CBCS) in Light of NEP-2020
Generic Elective UG students (B.Tech VII Semester)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
GUECO201	Generic Elective	Energy Economics and Policy	60	20	20	0	0	3	0	0	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit.

***Teacher Assessment** shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives:

- CEO1:** To understand the concept of Energy Economics.
- CEO2:** To enable students to identify the demand for Energy.
- CEO3:** To understand the supply sources for energy.
- CEO4:** To analyze Energy policies and regulations of India.
- CEO5:** To exemplify the Energy economics and development.

Course Outcomes:

Students will be able to:

- CO1:** Define basic concepts of Energy Economics
- CO2:** Access the demand for energy
- CO3:** Comprehend the supply sources of Energy.
- CO4:** Articulate various Energy policies and regulations in India .
- CO5:** Deduce the Energy economics and development.

Contents

UNIT I: Introduction to Energy Economics

Definition of Energy, Classification of Energy, Concept of Energy Economics; Nature and Scope of Energy Economics, Law of Thermodynamics: Energy, Economy and Environment Interactions.

UNIT II: Demand of Energy

Demand of Energy, Understanding and Analyzing Energy Demand, Overview of Energy Demand Decision, International and National Demand for Energy, Causes and Impact of Increase in Demand for Energy.

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UNIT III: Supply of Energy

Supply of Energy, Sources of Energy; Renewable and Non- Renewable Energy, Trend and Patterns of Energy Production, Social, Economic and Environmental Effects of Energy Production.

UNIT IV: Energy Policy and Regulation in India

National Policy on Biofuels-2018: Ethanol Blended Petrol (EBP) Programme, International Solar Alliance, National Hydrogen Mission

UNIT V: Energy and Economic Development

Importance of Energy in Development and Growth, Role of Energy in Achieving Sustainable Development Goals. Future Challenges and Opportunities in India's Energy Sector

Suggested Readings:

1. **Energy Economics:** Concepts, Issues, Markets and Governance by Subhes C. Bhattacharyya 2011.
2. **Energy Economics** by Peter M. Schwarz.
3. **Energy Economics: Markets, History and Policy** by Roy L. Nersesian 2016.

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