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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Energy Resources, Economics and Environment (course)



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Course outline

About NPTEL ()

How does an NPTEL online course work?

Week 1 - Introduction ()

Week 2 -Energy and quality of life,

Week 8: Assignment 8

The due date for submitting this assignment has passed.

Due on 2025-03-19, 23:59 IST.

Assignment submitted on 2025-03-19, 22:16 IST

- 1) Select the appropriate option which arranges following cooking mechanisms in **1 point** increasing manner of stove efficiency (i.e. from minimum efficiency to maximum efficiency)
- 1. Traditional charcoal stoves
- 2. LPG Stove
- 3. Electric Hot plate
- 4. Kerosene Wick stove
- 5. Animal dung in traditional stove
 - 4,1,5,2,3
 - 3,2,4,1,5
 - 5,1,4,2,3
 - 0 1,5,2,4,3
 - 1,5,4,2,3

No, the answer is incorrect.

Score: 0

Accepted Answers:

5, 1, 4, 2, 3

2) The targeted returns of venture capital are _____ than that of the mutual funds/retail 1 point investors.

Country energy balance ()	higher lower	
Week 3 - Energy Economics ()	equal marginally higher marginally lower	
Week 4 - Energy Resources ()	Yes, the answer is correct. Score: 1 Accepted Answers: higher	
Week 5 - Non- Renewable Resource Economics ()	 3) A company is planning to take a loan for an energy project, which of the following doe the loan repayment not depend on? Interest rate Tenor (duration) of the loan 	s 1 point
Week 6 - Preferences, Utility and Social choices ()	Amount of the loan Discount rate Yes, the answer is correct. Score: 1 Accepted Answers: Discount rate	
Week 7 - Public and private goods, Externalities	 A solar power plant of 10 MW capacity has a capital cost of INR 30 crores. Calculate annualised capital cost in crores for a life of 25 years and a discount rate of 25%. (Enter ar to second decimal places). 7.53 	
Week 8 - Energy and Financing ()	Yes, the answer is correct. Score: 1 Accepted Answers: (Type: Range) 7.47,7.57	
Lecture 15B: Revision paper- 1 (Part 3) (unit? unit=88&lesson =89)	5) The Bachat Lamp Yojana by Bureau of Energy Efficiency included replacement of incandescent lamps by © CFL lamps	1 point
Lecture 16A: Energy Project Financing - Part 1 (unit? unit=88&lesson =90)	LED lamps Solar-powered lighting systems Solar lanterns Yes, the answer is correct. Score: 1	
Lecture 16B:Energy ProjectFinancing -	Accepted Answers: CFL lamps	

Part 2 (unit?

unit=88&lesson =91)

- Lecture 17:
 Energy Project
 Financing Tutorial (unit?
 unit=88&lesson
 =92)
- Additional learning (unit? unit=88&lesson =93)
- Weekly Feedback (unit? unit=88&lesson =95)
- Quiz: Week 8 : Assignment 8 (assessment? name=213)

Week 9 -Input-Output Analysis ()

Text
Transcripts ()

Books ()

Download Videos () 6) A PV power plant in Rajasthan has a capacity of 100 MW. The Capital investment is Rs 300 crores, assuming a capacity factor of 17%, with a power purchase agreement guaranteeing a price of INR 4/kWh, assuming a lifetime of 25 years, neglecting O&M costs, answer the following questions. What is the Internal Rate of Return (IRR) (in percentage) of the project? (Enter answer up to second decimal place).

questions. What is the Internal Rate of Return (IRR) (in percentage) of the project? (Ente up to second decimal place).	· answer
19.63	
Yes, the answer is correct. Score: 2	
Accepted Answers: (Type: Range) 19.4,19.8	
	2 points
7) Which of the following is not an example of financing instruments? 16 AB pg 9	1 point
Multilateral development banks Bilateral Aid, Funds/Foundation, Green Investment, Te	chnical Asst.
Soft Loans Commercial Loans & Investment	
Market based loans	
Grants	
Yes, the answer is correct. Score: 1	
Accepted Answers: Multilateral development banks	
8) True or false: The cost of capital in the case of corporate finance is relatively higher than that of project finance. 16AB Pg8	1 point
True	
False	
Yes, the answer is correct. Score: 1	
Accepted Answers: False	
9) For a constant duration (n=constant), the capital recovery factor [i.e. CRF(d,n)] with increase in the discount rate (d).	1 point
increases increases	
decreases	
remains constant	
Changes randomly	
Yes, the answer is correct. Score: 1	
Accepted Answers: increases	