

Course title: Energy Economics and Finance			
Course code: DSE 123	No. of credits: 3	L-T-P: 34-09-04	Learning hours: 47
Pre-requisite course code and title (if any): NA			
Department: Sustainable Engineering			
Course coordinator: Dr. Sapan Thapar		Course instructor: Dr. Sapan Thapar	
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Course type: Core		Course offered in: Semester 3	
Course Description The course aims to that equip students with analytical skills and industry knowledge needed to thrive in the energy sector. It encompassed in detail aspects related to capital sources, financing instruments and computation of financial ratios. In relation to energy economics, it covers relevant legislations pertaining to power sector, tariff determination procedure and loss accounting methods. The course includes business models and concepts on oil & gas trading.			
Course Objectives <ul style="list-style-type: none">▪ Provide the students a thorough understanding of economics and finance pertaining to the energy sector▪ Introduction to concepts of capital structure, funding sources, instruments and lending terms▪ Understand and calculate key financial metrics like LCOE, IRR, payback period, NPV▪ Provides an overview on Electricity Act, including sectoral challenges▪ Students would grasp the process of tariff determination besides loss accounting methods▪ Introduction to concepts of oil & gas trading			