

Course title: Energy Policy, Planning and Programmes			
Course code: DSE 105	No. of credits: 3	L-T-P: 45-00-00	Learning hours: 45
Pre-requisite course code and title (if any): N.A.			
Department: Sustainable Engineering			
Course coordinator: Dr. Sapan Thapar	Course instructor(s): Dr. Sapan Thapar		
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Course type: Programme Core	Course offered in: Semester 1		
Course description			
<p>The course is meant to impart knowledge on the energy sector, encompassing policies, regulations and legislative frameworks pertaining to India. Students would be sensitized about the institutional structure – governing entities/ agencies, public sector undertakings, research institutions, private companies, across the business value chain.</p> <p>Prominent legislations, rules, policies and programs related to coal, oil & gas, hydro, nuclear, electricity and renewable sectors shall be discussed. These would include OALP, Coal Mining Policy, Electricity Act and RE-RPO Scheme. Special focus would be on policies pertaining to renewable energy sector, covering utility-scale and decentralized plants (both electric and non-electric formats). Students would be made aware about the new initiatives on EVs, Biofuels, Green Hydrogen. Discussions would include global practices.</p>			
Course objectives			
<ul style="list-style-type: none"> ▪ Impart knowledge on energy related policies, regulations, institutional framework and key stakeholders ▪ Provide understanding on key programmes pertaining to coal, oil & gas and electricity sectors ▪ Analyze efficacy of policy instruments on renewable energy sector ▪ Provide insights on emerging policies/ programs regarding EVs, GH2, CBM, Smart Grids, Biofuels 			