

Course title: Introduction to management techniques				
Course code: ENR 185		No. of credits: 1	L-T-P: 15-0-0	Learning hours: 15
Pre-requisite course code and title (if any): NA				
Department: Sustainable Engineering				
Course coordinator: Dr Shruti Rana Sharma			Course instructor(s): Ms Vedika Singh	
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Course type: Core			Course offered in: Semester 1	
Course description				
The course is divided into two parts, one with management and organization principles and the other with basic business finance. Since one of the main challenges remains as how to develop the marketability of renewable energy which is needed to ensure its meaningful acceptance, a set of business ideas is necessary for the students to be aware of. This course would help them to adopt a systematic approach to solve the organizational problems.				
Course objective				
<ul style="list-style-type: none">▪ To make the students learn basic organization and management principles.▪ To help the students develop a systematic approach to address problems.▪ To ensure that the students get aware of the organization-environment interface.				
Course contents				
Module	Topic	L	T	P
1	Introduction	2	0	0
	Types of organization structures Basic concepts in management; management functions, skills and roles			
2	Basic elements of planning and decision making	2	0	0
	Approaches to organizational planning Strategic and operational plans Goal setting with responsibility Decision making process and tools SWOT analysis and decision trees			
3	Basic elements of organizing	2	0	0
	Organization design and its nature Designing of jobs (or roles) and reporting relations Forms of organization design Delegation of authority Responsibility and authority relationship Centralized vs. decentralized organizations			
4	Managerial Control	2	0	0
	Basic control processes: feedback and feed forward Real-time information and control Mandatory and non-mandatory control			
5	Managing Changes	2	0	0
	Issues involved Manager’s role as change agent Resistance to changes Models of change management			

6	Management environment	2	0	0
	Technological environment			
	Social environment			
	Economic environment			
	Political environment			
	Legal environment			
	Global environment			
7	Management and society	3	0	0
	Ethics in management			
	Corporate social responsibility (CSR)			
	Strategic CSR and Creating Shared Value			
	Total	15	0	0
Evaluation criteria <ul style="list-style-type: none"> Written Test 1: 30% Test 2: Assignment/Presentation: 30% Written Test 3: 40% 				
Learning outcomes <ul style="list-style-type: none"> To understand the basics of management. To understand the optimization of resource allocation and its use. To understand the business perspective of the emerging section of renewable energy. 				
Pedagogical approach A combination of class-room interactions and assignment.				
Materials Hand-outs distribution by faculty.				
Additional information (if any) In addition to books, participants are encouraged to read journals/magazines like Harvard Business Review California Management Review Vikalp IIMB Management Review Forbes etc.				
Student responsibilities Attendance, feedback, discipline: as per university rules.				

Course Reviewers

1. Vinay Sharma, IIT Roorkee
2. Kumkum Bharti, IIM Kashipur