

PLANNED SYLLABUS COVERAGE(Theory)

GPK-F-17

SYLLABUS COVERAGE		Department: <u>ECE</u>		Course <u>Diploma</u>		Subject <u>Energy Management (OE-II)</u>	
SYLLABUS COVERAGE		Total Periods <u>56</u>		Duration <u>6 Months</u>		Theory <u>56</u>	
Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	R. marks	
1.	1-8	Energy Sources	Brief overview of present energy scenario in India Brief overview of share (%) of various sources in present energy scenario in India. Basic Concept and Importance of Energy Management.	Energy Management by Umash Rastogi by Katsen.			
	9-18	Energy Conservation	Energy Conservation and its needs, Energy Conservation opportunities and Conservation strategies in domestic Sector Energy Conservation measure in office Method/ Technologies for saving energy in Heating, Ventilating System, Air Conditioners, Energy Conservation at Macro level.	do			
	19-30	Energy Conservation Industrial Energy, In Industrial Sector	Energy saving potential in Industries, Method/Tech. for saving energy in furnaces, ovens, fans and blowers, Case study of energy Conservation in Industrial process.	do			
	31-40	Energy Conservation in Agricultural Sector.	Energy Conservation opportunities in pumps. Used in agricultural Sector.	do			

Approved from concerned HOD within seven days from beginning of semester & will be kept with the concerned teacher's file.

Sr. No.	Period Nos.	Topic	Instruction Reference
5	41-44	Energy Audit	Energy Conservation Techniques in Agricultural Sector. Need, types, preliminary. General / Mini, Comprehensive Energy Audit, team, Energy Audit Methodology, Procedure.
6	45-56	Energy and Environmental Concern to energy Utilization EIA and its need.	

Extra Topics to be covered beyond the scope of the syllabus (as required recommended by Teacher which he/ she finds necessary)

Sr. No.	Period No.	Topic Covered	Instruction Reference	Additional Recommendation

Date 27/01/2026	Approved / Not approved HOD Sign <i>nsinal</i>
Date	Principal Sign <i>mt</i>

Use additional sheets (if required)

PLANNED SYLLABUS COVERAGE(Theory)

Department: <u>E.C.E</u>		Subject <u>Entrepreneurship & Startups.</u>			
Course <u>Diploma.</u>		Duration <u>3 years.</u>			
Total Periods		Theory <u>56.</u>			
Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	Remarks
1 to 12	Introduction to Entrepreneurship and Startups.	1.1. Definition and Traits of an Entrepreneur. 1.2 Entrepreneurship 1.3 Motivation. 1.4. Types of Business structures. Similarities difference between Entrepreneur and Manager.	Entrepreneurship and Startups. by H.C. Saini	The Innovation Dilemma by Clayton M Christensen	
13 to 22.	Business Idea and their Implementation	2.1 Discovering idea and visualizing the business. 2.2 Activity map 2.3 Business Plan.	- do -	- do -	
23 to 36	Idea to startup	3.1 Market Analysis- Identifying the target Market. 3.2 Competition Evaluation & Strategy development. 3.3 Marketing & Accounting 3.4 Risk Analysis.	- do -	- do -	
37 to 44.	Management	4.1 Company's organising structure. 4.2 Recruitment & Management of Talents. 4.3 functional organisation and management.	- do -	- do -	

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Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommendation
45 to 51	Financing and Protection of Ideas.	5.1 Financing Methods Available for startups in India. 5.2 Communication of ideas to potential investors. Investors pitch. 5.3 Patenting & Licenses.	Entrepreneurship & Startups by H.C. Saini	The Innovator's Dilemma by Clayton Christensen
52 to 56	Existing strategy	6.1 Exit Strategies for Entrepreneurs, bankruptcy and Succession. 6.2 Harvesting strategy.	- do -	- do -

Extra Topics to be covered beyond the scope of the syllabus (as required by industry) recommended by Teacher which he/ she finds necessary)

Period No.	Topic Covered	Instruction Reference	Additional Study recommended

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HOD Sign

PLANNED SYLLABUS COVERAGE(Theory)

G P Kangra		Department: <u>Electronics & Comm Engg</u>		Subject <u>Computers Networking & Data Comm</u>		Remarks
SYLLABUS COVERAGE		Course <u>P.C.</u>		Duration <u>06 Months</u>		
		Total Periods <u>(70 + 14x2 = 28)</u>		Theory <u>14x5 = 70</u>		
		<u>= 98</u>				
Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended	
01	(1-13) =13	Introduction To Data Comm.	- Concept of Analog & Digital signals	Comput Network Andrew S. Tanenbaum Pearson Publication		
			- Band width.			
			- Network Architecture			
			- Basic of OSI TCP/IP Model			
02	(14-26) =13	Digital & Analog Transmission	- Types of Computer Networks			
			- Different Type of Topologies			
			- Transmission Media			
			- wired & wireless Connectivity			
03	(27-39) =13	Wireless Comm.	- Digital Transmission			
			- Digital to Digital conversion			
			- Line coding			
			- Unipolar coding			
04	(40-55) =16	Data Link Layer Technology	- Sampling, quantization etc.			
			- Radio, microwave			
			- Infra-red light Transmission			
			- Wireless channels			
05	(56-70) =15	Network Layer Technology	- Receive Techniques			
			- Mobility management			
			- cluster Maintenance System etc.			
			- Types of Network Routing			
06	(71-85) =15	Transport Layer Technology	- Network Layer protocol			
			- FDM, TDM, CDMA			

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Sr. No.	Period Nos.	Topic	Details	Instruction Reference	Additional Study Recommended
05	56-70 =15	Transmission media & Transmission Control protocol	- circuit & packet switching - frame relay & ATM scheme switching - Satellite Network - Routing algorithms - internetworking & Subnetting - Error Detection & Correction Techniques - Magnetic Media - Twisted Pair Cable - Power lines - fibre optics - Addressing - Error control & flow control - Multiplexing		

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Approved / Not approved	
Date 27/01/2026	HOD Sign N. Shakti
Date 27/01/2026	Principal Sign [Signature]

Use additional sheets (if required).