

GOVERNMENT POLYTECHNIC, PUNE
(An Autonomous Institute of Govt. of Maharashtra)

Programme	:	Diploma in CE/EE/ ET/ ME/MT/ CM/ IT
Programme Code	:	01/02/03/04/05/06/07/15/16/17/18/19/21/24/26
Name of Course	:	Community Development
Course Code	:	AU482

Teaching Scheme:

	Hours /Week	Total Hours
Theory	02	32
Practical		

Evaluation Scheme:

	Progressive Assessment	Semester End Examination			
		Theory	Practical	Oral	Term work
Duration	Two class tests of 60 min Duration	3 Hrs	---	---	---
Marks	20	80	---	---	---

Course Rationale:

The course has been introduced to make young Engineers especially aware of the present status of Villages & to motivate them to make improvement in villages when they start their Engineering carrier.

Course Objectives:

After studying this course, the student will be able to

- Able to understand present situation in villages and realize the gravity of the village development.
- Able to make survey of villages, collect the data, analyze it and identify the area of development.
- Able to identify the available natural resources and how they can be utilized for betterment of villages.
- Able to collect the useful information for starting probable new industries in villages.
- Able to guide villagers in building low cost durable houses taking in to considerations weather conditions of that area.
- Able to guide villagers for development good habits regarding health and hygiene.
- Motivated to bring about all round development of villages.

GOVERNMENT POLYTECHNIC, PUNE
(An Autonomous Institute of Govt. of Maharashtra)

Course Content:

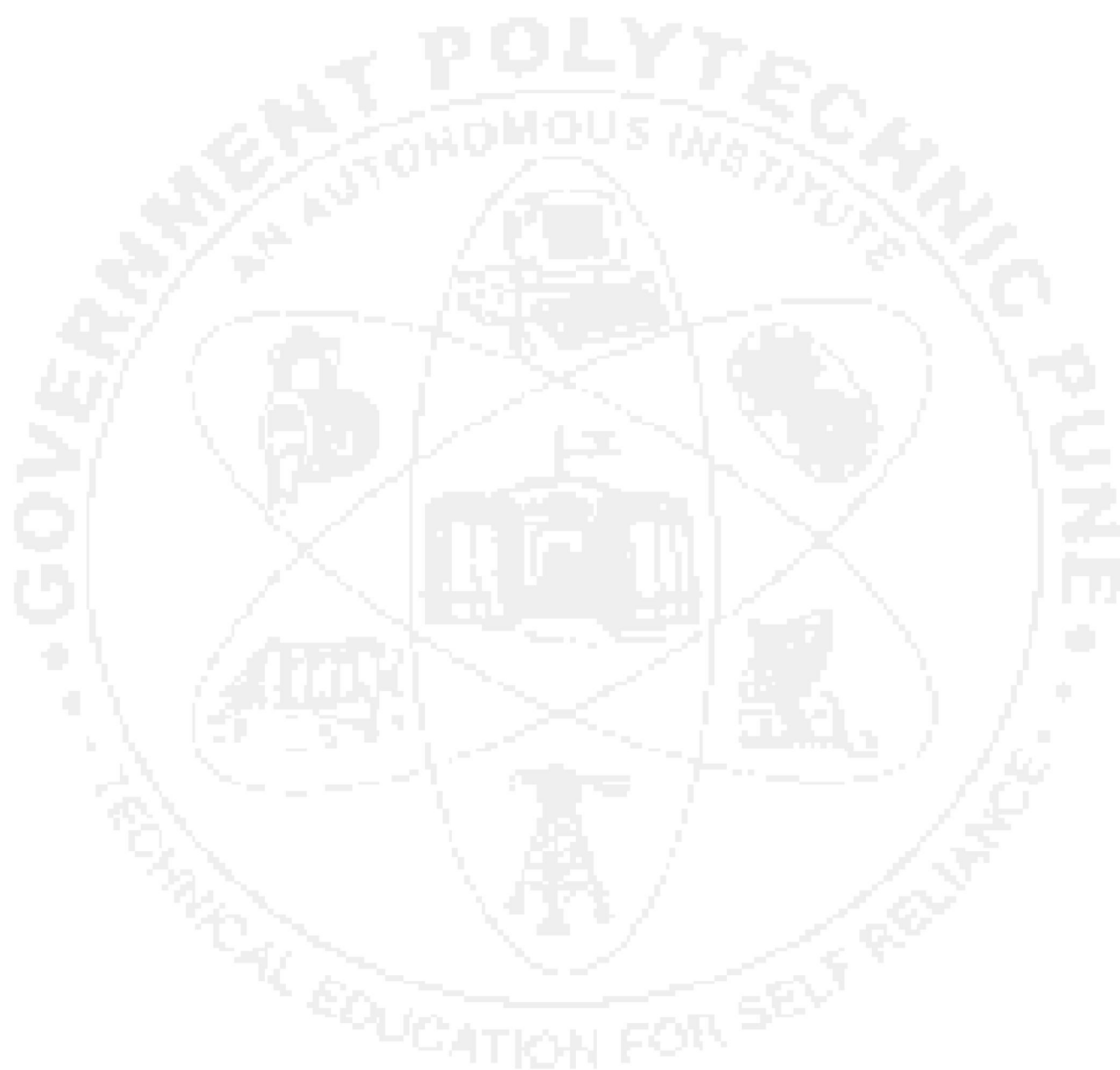
Chapter No.	Name of Topic/Sub topic	Hrs	Marks
1.	Introduction		
	1.1 Present status of rural and urban community.	02	04
	1.2 Necessity of community development.		
	1.3 Identifying needs of community, Ways to develop community.		
2.	Human Power Development		
	2.1 Present scenario of Human power in India,	04	08
	2.2 Socioeconomic survey to ascertain requirement of human requirements.		
	2.3 Methodology for training the human power		
	2.4 Wage employment and self employment,		
	2.5 Support from financial institutions for self employment.		
3.	Appropriate Technology and Technology Transfer		
	3.1 Technological development of India, Additional needs of community due to technology development,	04	12
	3.2 Classification of rural industries,		
	3.3 Areas of appropriate technology,		
	3.4 Use of locally available materials,		
	3.5 Methods of transfer of technology, Project reports preparation.		
4.	Industrialization		
	4.1 Present status of rural traditional industries,	04	12
	4.2 Renewal of old industries in villages- Manufacturing new commodities such as plastic utensils, nylon ropes, ceramics Repairing – agricultural implements, tractors, automobiles, electrical or diesel pump sets, domestic appliances Food processing – Papad, jam, jelly, pickles, preservation, spices, syrups, ketchups Utilization of waste product – Gobar gas, fuel cake, Construction – Brick clamp, stone quarry, sand supply, and crusher. Miscellaneous – Handlooms, power looms, Ginning mills, Jaggery making Service Industry –House keeping Public facility centre (suvidha Kendra-setu) Net café, Bachat Gat concept and working. Housing support to industrialization.		
5.	Non Conventional Energy Sources		
	5.1 Availability of energy sources in India,	06	20
	5.2 Needs of use of non conventional energy sources.		
	5.3 Availability of such sources in India.		

GOVERNMENT POLYTECHNIC, PUNE
(An Autonomous Institute of Govt. of Maharashtra)

	5.4	Various types of non conventional energy sources. Solar energy – Solar water heater and solar cooker, wind energy, wind mill and wind turbines, bio-gas-generation.		
6.	Community Services			
	6.1	Health and Hygiene awareness,	04	08
	6.2	Health services,		
	6.3	Educating the community for good habits of health and hygiene, Potable drinking water, purifying well water, low cost latrines, drainage system and soak pits Tree plantation programmes, roads and communications.		
7.	Waste Management			
	7.1	Generation of waste, causes	04	08
	7.2	Types of waste – domestic, commercial, industrial, E-waste, hazardous waste.		
	7.3	Waste separation of domestic waste e.g. wet, dry, reusable, recyclable,		
	7.4	Waste disposal – methods, treatments, etc.		
	7.5	Reduce, Reuse, and Recycle, 3Rs in Waste Management.		
8.	Developments			
	8.1	Programmes for all round development of	04	08
	8.2	Community, Various government schemes, IRDP – Integrated Rural Development Programme.		
	8.3	Active participation of community in development programmes		
	8.4	Motivation for participation.		
	Total		32	80

Instructional Strategy:

Sr. No.	Topic	Instructional Strategy
1.	Introduction	Class rooms teaching
2.	Man power developments	Class rooms teaching, data collection
3.	Appropriate technology & technology transfer	Class rooms teaching
4.	Industrialization	Class rooms teaching
5.	Non-conventional energy sources	Class rooms teaching
6.	Community services	Class rooms teaching
7.	Waste Management	Class rooms teaching
8.	Developments	Class rooms teaching



GOVERNMENT POLYTECHNIC, PUNE
(An Autonomous Institute of Govt. of Maharashtra)

Text Books:

Sr. No	Author	Title	Publication
1.	Katav Sing	Rural Development Principles, Policies and management.	---
2.	S.P. Sukhatme	Solar Energy	---
3.	G.P. Rai	Non-Conventional Sources of Energy	---
4.	Debendra K. Das	Dynamics of rural development, perspectives	Deep & Deep Publications Delhi

Reference Books:

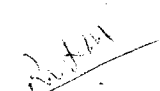
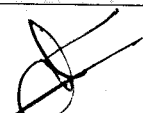

Sr. No	Author	Title	Publication
1.	T.T.T.I. Madras	Environmental Engg.	Tata McGraw Hill Publishing Co. Ltd. New Delhi.

Learning Resources: Internet, Daily News paper

Specification Table:

Sr. No.	Topic	Cognitive Levels			Total
		Knowledge	Comprehension	Application	
1.	Introduction	04	--	--	04
2.	Man-power development	04	04	--	08
3.	Appropriate technology & its transfer	04	04	04	12
4.	Industrialization	04	04	04	12
5.	Non-conventional Energy Sources	08	06	06	20
6.	Community Services	04	04	--	08
7.	Waste Management	--	04	04	08
8.	Developments	04	04	--	08
	Total	32	30	18	80

Prepared By :

 (J. N Thorat-Shingte)	 (S. V. Chaudhari)	 (R.N. Shikari)
Lect. in CE	Member Secretary, PBOS	Chairman, PBOS