



*Gujarat Technological University,  
Ahemdabad, Gujarat.*

**Orientation Program of Vishwakarma Yojna at Vadodara**



Gujarat Technological University organized a one day Orientation Programme of Vishwakarma Yojana: Phase-II held on 31<sup>st</sup> July, 2013 at 11:00 a.m. at the Seminar Hall of Parul Institute of Engineering & Technology, Vadodara.

Function was chaired by Prof Ruchi Shrivastava-Principal, PIET, Prof. Jatin Vaidya - Principal, Parul Polytechnic Institute, Ms. Jagruti Shah-Project Coordinator, Vishwakarma Yojana. Mrs. Reena Choksi, Head of civil Engineering Department, 13 Faculty Members and 40 Students were attended the program.



Vishwakarma Yojna is now in Second Phase to introduce Project and Scope of work of Students & nodal officers, GTU has organized orientation program coordinated by Mrs. Jagruti Shah, Project Coordinator, Vishwakarma Yojana. Main objective of this program was to provide all the information of Vishwakarma Yojana, Details of Techno-Economic Survey and other necessary details of Project. Orientation program was organized for villages included in Vadodara District.



Mrs. Amisha Upadhyay, Faculty member of PIET welcomed all invitees and requested Prof. Ruchi Shrivastava, Principal, PIET to brief about Vishwakarma Yojana. Prof. Ruchi Shrivastava briefed students for Vishwakarma Yojana. She also presented her view about how this project will give real world experience to youth engineers. She requested all the students to give their best in this project and phase the existing Challenges. She also thanked GTU for giving institute such a golden opportunity.



Technical session was started by Mrs. Jagruti Shah. She welcomed all the participants on behalf of GTU. Before starting presentation, she asked Rural- Urban definition to participants. She said as per National Sample Survey Organization (NSSO) defines ‘rural’ as follows:

- ❑ An area with a population density of up to 400 per square kilometer,
- ❑ Villages with clear surveyed boundaries but no municipal board,
- ❑ A minimum of 75% of male working population involved in agriculture and allied activities.

She initiated her presentation by Hon’ble Vice chancellor Dr. Akshai Aggarwal’s concept of Vishwakarma Yojna which says Rurban Development: **‘Suvidha Saher ki Atma Gaon Ki’**. She explained overall concept of Vishwakarma Yojana. It will provide the benefit of real work experience to engineering students and simultaneously apply their technical knowledge in the development of



infrastructure in rural development. She has also briefed for the work done in Phase-I by Students of respective Institutes. Aim of the project is to provide urban amenities in rural areas and maintaining the rural soul. This will help in developing villages in sustainable manner, reduce migration from villages and prevent the cities from the urban pressure.

In her presentation, she presented and explained all the objectives to students such as developmental work in villages that could undertaken as per the need of the village in particular includes Physical infrastructure facilities (Water, Drainage, Road, Electricity,



Solid waste Management, Storm Water Network, Telecommunication & Other), Social infrastructure facilities (Education, Health, Community Hall, Library, Recreation Facilities & other) and renewable energy (Rain water harvesting, Biogas plant, Solar Street lights & Other) for Sustainable development.

Mrs. Jagruti Shah explained roadmap of work to be done by students in each semester. She also explained

### **Part-I (Odd Semester) Includes: (IDP-I)**

#### **Data Collection & Recommendation Phase**

- I. Data Collection- Techno economic survey
- II. Data Presentation
- III. Visit of Ideal Village of Respective District
- IV. Gap Analysis
- V. Recommendation & Suggestions for Village Development

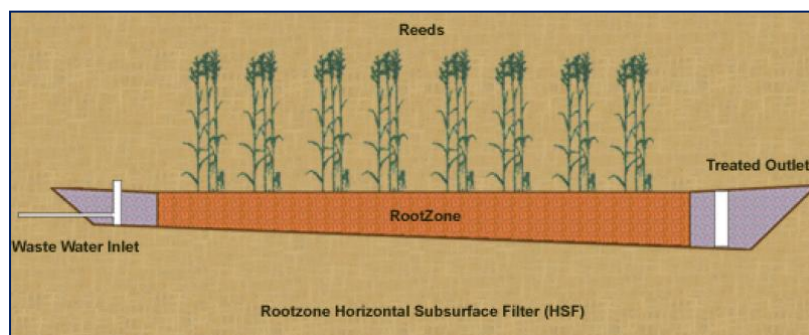
By this note, she gave guidance to all the participants for techno-economic survey work. She explicated Survey form for Phase-II and defined all the parameter of Survey.



**Part-II (Even Semester) Includes: (IDP-II)****Planning & Designing Phase**

- I. Design Proposals for overall development of Village includes Physical and Social Infrastructures
- II. Design Proposals for Sustainable Planning includes Non conventional energy Sources
- III. Conclusion

She shared various developments in villages of Gujarat with live case studies such as for the waste water network, model of village Khintla, Surendranagar for Low cost network and resource utilization. She gave brief details of Root Zone Technology for Liquid waste Management. For Solid waste management, TAPI-Model, adoption will be the best solution for economic boost up and clean village philosophy. She covered all the amenities from grass root level to developed town level for village development. She presented concept of Low cost Housing for better housing condition for village dwellers. She shared various guidelines and norms for physical as well as social infrastructure facilities.



**Root Zone Technology**

She said that all the proposal are designed by keeping the following parameters in mind like built and landscape into a cohesive whole, Water charging / reuse as integral part of the design process, Major thrust into local / regional species, Low energy intensive, Low maintenance , Creation of sustainable environments, In tune with Sun / wind / water / soil, Introduce alternate energy sources, Generate an effective reuse & recharging the water basin, Introduce separate systems of distribution network for raw water and drinking water, Drainage to be treated with root zone technology and reuse the treated water for Sustainable Development.



At the end of presentation, Students asked their various questions and solutions were given for the same. Discussion was very much helpful to students and nodal officers to fill technical gap as well as to share their view.

Mrs. Reena Chokshi, HOD of Civil Engineering Department thanked Gujarat Technological University for providing them such a prestigious opportunity which will be helpful to students for getting real world experience. She thanked Mrs. Jagruti Shah for her guidance to Students.

Mrs. Jagruti Shah thanked all students, Nodal Officers and staff of Parul Institute of Engineering & Technology, Vadodara for making orientation program success for Vishwakarma Yojna.

**On behalf of Vishwakarma Yojna, GTU, Ahmedabad**

**Dr. Indrajit Patel**

**Mrs. Jagruti Shah**

