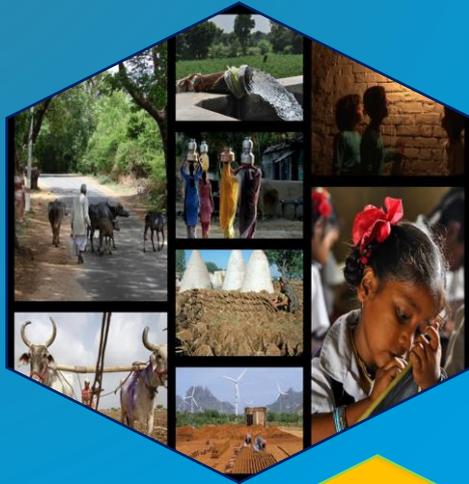


A Report on Orientation Programme of

Vishwakarma Yojana:

An approach towards Rurbanization

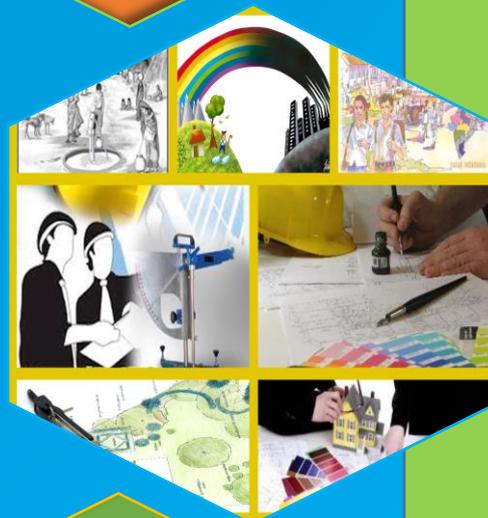


Reimagine

**Village
Development**

Rurbanization

Redesign



Rejuvenate

**Sustainable
Approach....**

Venue: Gujarat Technological University, Chandkheda Campus

30th July, 2016

Presented by: Dr. Indrajit Patel & Ms Jagruti Shah



*Gujarat Technological University,
Ahmedabad, Gujarat*

**Gujarat Technological University,
Ahmedabad, Gujarat.**

Orientation Program of Vishwakarma Yojana: Phase-IV at GTU, Chandkheda

(30th July, 2016)

Vishwakarma Yojana is one of the initiatives towards Rurbanization by Government of Gujarat, which was allotted as a pilot project to GTU. The students and Faculty Members meet all the stake-holders in a village, survey the existing facilities. Then they re-imagine and re-design the whole of the infrastructure of the village. The students use their engineering skills to prepare detailed project reports for the infrastructure as a part of their Final Year project work. Through the Yojana, the students of GTU are getting real work experience and are able to apply their technical knowledge and practices to a real problem. This entails hard work, many strenuous visits to the village and long discussions with the various stake-holders.

We have been expanding our reach from year-to-year and this relationship of GTU with the villages has proved to be an enriching experience for the GTU community.

Gujarat Technological University organized the Orientation Program of Vishwakarma Yojana for the students and Nodal Officers, participating in Vishwakarma Yojana: Phase – IV held on **30th July, 2016** at the Conference Hall, Gujarat Technological University, Chandkheda Campus.

15 Nodal officers and **293 Students** from GTU affiliated colleges attended the Orientation Program.

Vishwakarma Yojana is now in fourth Phase to introduce Project and Scope of work of Students & nodal officers, GTU has planned to organize orientation program for students & Nodal officers coordinated by Project Coordinator, VY with support from GTU and participating institutes. Main objective of this program was to provide all the information of Vishwakarma Yojana, details of Techno-Economic Survey and other necessary details of the Project. Orientation program was organized for villages which included Ahmedabad, Gandhinagar, Banaskantha, Amreli, Junagadh, Kutchh, Mehsana, Patan, Sabarkantha and Jamnagar District.

Ms Darshana Chauhan welcomed all invitees on behalf of Gujarat Technological University. She welcomed all the participants and Faculty members. She described



how the Hon'ble Vice chancellor Dr. Rajul Gajjar, I/C Registrar Dr. J. C. Lilani and Honorary Director Dr. Indrajit Patel is giving constant support and motivation to lead the project. She has briefed about all the administration process to the participants. She gave various guidelines to students & Nodal officers for all the process to be done throughout the year.



Technical Session:

Ms Jagruti took over for session and welcomed all the participants on behalf of GTU. She briefed students for concept of Rural and Urban. She shared broader view of Rural & Urban India.

She asked students about their concept for developed Villages. She gave some glimpse of ideal villages of Gujarat. She explained overall concept of Vishwakarma Yojana. 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.



She also described all the objectives to students such as developmental work in villages that could be 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 & Socio cultural infrastructure facilities (Education, Health, Community Hall, Library, Recreation Facilities & other) and renewable infrastructure facilities (Rain water harvesting, Biogas plant, Solar Street lights & Other) for Sustainable development.

She explained in detail over all action plan and methodology of work by Degree & Diploma students. She also discussed all the issues faced by students in Phase-I & II



and given solution for the same. She said rural development can be richer and more meaningful only through the participation of clientele of development. Just as implementation is the touchstone for planning, people's participation is the centre-piece in rural development. People's participation is one of the foremost pre-requisites of development process both from procedural and philosophical perspectives. Mrs. Jagruti Shah explained roadmap of work to be done by students in each semester. She also explained work separately, chapter wise.



Part-I (Odd Semester) Includes:

- Literature Review
- Visit of Ideal Village of Respective District
- Data Collection- Techno economic survey
- Data Presentation
- Sustainable Design Planning Proposals (Rain water harvesting, Biogas plant, waste to energy models, eco sanitation, Renewable Energy sources Application & Other)
- Repair & Maintenance of Existing Infrastructure Facilities
- Suggestions and Recommendations

She gave guidance to all the participants for techno-economic survey work. She explicated Survey form and defined all the parameter of Survey.

Part-II (Even Semester) Includes:

- Gap Analysis (Guidelines, Regulation and Literature will be given for comparison)
- Design Proposals for Over all development of Village includes
 - Physical Infrastructure Facilities
 - Social Infrastructure Facilities
 - Socio Cultural Infrastructures Facilities
- Recommendation & Suggestions For Village Development
- 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 explained concept of village sustainable system with all these examples. She covered all the amenities from grass root level to developed town level for village development.



She shared various guidelines and norms for physical as well as social infrastructure facilities. She also addressed students for different workshop and training Program which will be planned to help students for all technical guidance by GTU. She said that all the proposal are designed by keeping the various 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 the presentation, students and nodal officers asked various questions and solutions were given for the same by Ms Darshana Chauhan & Jagruti Shah. Discussion was very much helpful to students and nodal officers to fill technical gap as well as to share their views.

Ms. Darshana Chauhan expressed her deep sense of gratitude to Dr. Rajul Gajjar, Hon'ble Vice Chancellor for her encouragement and support during project work, Dr. J.C. Lilani, I/C Registrar GTU, Dr. Indrajit Patel, Honorary Director- vy, all students, Nodal Officers, Conference section and Team of GTU for making orientation program successful for Vishwakarma Yojana.

On behalf of Vishwakarma Yojana, GTU, Ahmedabad

Prof. (Dr.) Indrajit Patel

Ms Jagruti Shah

Ms Darshana Chauhan



Annexure**List of Institutes attended Orientation program at GTU, Chandkheda Campus:**

Sr no.	Name of the Institute	No .of present Students	Taluka/ District
1.	VGEC, Chandkheda	15	Ahmedabad
2.	Arham Veeraytan Institute Of Technology	17	Kutch
3.	Balaji Engineering, Junagadh	11	Junagadh
4.	C U Shah Polytechic	7	Surendranagear
5.	Dr. Subhas Technical Campus	16	Junagadh
6.	Gandhinagar Institute Of Technology	12	Gandhinagar
7.	GEC, Palanpur	17	Bansakatha
8.	GEC, Patan	10	Patan
9.	G P Girls for Girls, Ahmedabad	13	Ahmedabad
10.	Growmore faculty of Eng.	14	Sabarkatha
11.	Hansaba college of Eng & tech	17	Rajkot
12.	Hasmukh Gowsami college	15	Ahmedabad
13.	Kalol institute & technology	3	Kalol
14.	LDCE	10	Ahmedabad
15.	NSIT, Jetalpur	6	Ahmedabad
16.	Om engineering	6	Junagadh
17.	SPB engineering	10	Mehsana
18.	Sal engineering	30	Ahmedabad
19.	SPCE, Visnagar	9	Mehsana
20.	Sankarsing Vaghela Bapu Institute	13	Gandhinagar
21.	Shree Satsangi Saketdham, Vadasma	13	vadasma
22.	Swaminarayan College Of Engg.	14	Mehsana

