



**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**(Established under Gujarat Act No. 20 of 2007)**

ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટી  
(ગુજરાત અધિનિયમ ક્રમાંક: ૨૦૬૨ સ્થાપિત ૦૦૭૨/)

Ref: GTU/Skill Development/2014/9507

Date: 17/12/2014

**Circular**

**Gujarat Technological University (GTU)** is probably the only technological university in our country, which has been making continuous need based interventions to make our engineering curriculum both practice-oriented and design-based, while involving industries actively in the process. It has been working for the development of high-level skills as a part of the educational process.

Every large industry has not only to purchase new technology from the developed world or from China, we do not have either the skilled manpower to operate the new technological tools optimally or competence to be able to develop new technologies. India's large companies purchase new technologies every year from all over the world. But fast technological developments continue to push us back. As an example, new developments in technology in 2014, have led to a situation, where if a sophisticated welding job is completed in ten dollars in UK, in China it would cost 35 dollars, in India it would cost 45 dollars, even though per capita income in UK is 261 times that of India and per capita income of China is 4.61 times that of India (IIMF data of 2013). China has established volumes of production, which have today made the world dependent upon it. Thus more than 80% of refrigerators in the world are manufactured in China. Thus a new technology, which reduces the cost of welding in UK, cannot upset the relative production volumes of refrigerators in China vs UK. But such things can affect the decisions to locate production units in India, as our nation works for it energetically, under the Honourable Prime-Minister's 'Make in India' campaign. During the next 20 years 33% of whole India's population will be in main stream workforce. India needs to create 10 lac jobs per month for the next 20 years. This cannot be done without providing today's technological skills. Moreover our start-ups and even large industries cannot compete if the issue of acute shortage of skilled workforce is not adequately addressed. GTU is working to build First rate Skill Development Facilities for use by its own student. These facilities will also be used skill development of workers, as required by a National Skill Development programs of the Honourable Prime Minister of India.

GTU is setting up 121 workshops with technologies, which are at the frontiers of technology. These workshops will also have researchers, who will not only be abreast of new developments in the area but also develop new technologies. It is also establishing Centers of Excellence in today's technologies, where research in complete systems, used in today's industries can be conducted.

The Skill Development programs are being set up on the basis of pedagogical innovations, which GTU has initiated for strengthening technological education through practice

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orientation, a close inter-action with industries and through project-based and design-oriented learning systems.

**WORKSHOPS FOR SKILL DEVELOPMENT CENTERS:**

**WORKSHOP-1**

- Machine Shop (Introduction to Machine Tools, Machine Shop, Different Metal Joining Processes).

**WORKSHOP -2**

- Welding, Sheet Metal Fabrication and Brazing, Carpentry & Painting, Smithy Shop, Fitting and Plumbing Shop.

**WORKSHOP-3**

- Foundry Shop

**WORKSHOP-4**

- Automobile

**WORKSHOP-5**

- Refrigeration and Air Conditioning

However these workshops are usually of elementary nature. GTU proposes to establish five Skill Development Centers (SDC) in each of the trades, which are a part of the engineering curriculum. Thus GTU may establish as many as 95 SDCs by upgrading the workshops of some of the Polytechnics and Engineering Colleges.

**Functions of the Skill Development Centers at Workshops:**

Each of the SDCs will train skilled workers, Moreover these will provide training to students of engineering, lastly these SDCs will be manned by technician trainers as well as professors, who will do research in these technologies. Thus if GTU has ten professors in the Five zonal SDCs in the area of welding, they will study the technologies of welding and will work to develop new technologies indigenously.

Under the guidance of **Mr. Ragesh Bateriwala**, Keepsake Engineering Pvt. Ltd. Ahmedabad and Chairman of American Society of Metal Gujarat Chapter, GTU is planning to develop model workshop lab in each zone, which also include high quality welding lab. With joining hand with American Society of Metal (ASM) and Industry GTU is also planning to start Library for Knowledge improvement of faculty as well for students.

**GTU is inviting Principal, HOD and faculty members** who are interested to work in the area of Mechanical Engineering Discipline with the aim of improve knowledge and understanding of manufacturing processes, helping students to design better products and prototypes and work effectively with manufacturers and suppliers and also to develop their practical skills to improve their ability to make and assemble test rigs and prototypes safely and to a high standard.

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Faculties from GTU Affiliated Colleges are invited to register for Skill Development Workshop Meeting Scheduled as per below Mentioned Details:

**Date: 22<sup>nd</sup> December 2014, Time: 11:00 A.M**

Kindly register before **Date: 21<sup>st</sup> December 2014, Time: 06.00 P.M.** at the following link:

[https://docs.google.com/forms/d/17gglv59L\\_L2wO6Vi\\_mGSprpdO-1g2tMGLeeHRxRZgoo/viewform](https://docs.google.com/forms/d/17gglv59L_L2wO6Vi_mGSprpdO-1g2tMGLeeHRxRZgoo/viewform)

**Venue: - Gujarat Technological University**  
Nr.Vishwakarma Government Engineering College,  
Nr.Visat Three Roads,  
Visat - Gandhinagar Highway,  
Chandkheda, Ahmedabad – 382424.

**-Sd-**

**I/c Registrar**

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