



Non -Credit Course Method of Agile Rapid Prototyping

As a part of DIC, a series of seven elective courses are designed to imbibe design methodology & innovativeness translating into creativity while making a prototype with precision to be saleable in market. Course is designed of week unit which is module to provide in depth study along with hands on experience which comprises of different engineering & pharmacy domains. In a series of seven course we are starting with first course of **The Method of Agile rapid prototyping.**

In a modern manufacturing process adaption like Agile & lean Manufacturing technology to sustain & to thrive with more complex and intensely connected, strategy and design thinking is no longer just the playground of design-focused ideation. Products Organizations of every type and industry can (and must) use core design principles and applied creativity to develop innovative strategies that better connect them with their end users.

OBJECTIVE OF THE WORKSHOP:

Prototype development have following acute tasks:

-) Filling the funnel with a flow of creative ideas,
-) Validating those ideas and prioritizing the best ones,
-) And shepherding them from seed stage to market.

The Design Elective Course of Rapid Prototyping & Agile Manufacturing will provide insight in Innovation and Design Thinking to the participants & the tools they need to take a design project from inspiration and insights to ideation and implementation, and understand the full scope of prototype development, innovation and strategy.

Benefits:

- i. acquire basic knowledge about the main opportunities provided by Reverse Engineering and Rapid Prototyping tools, which represents an opportunity to learn how to conduct detailed product design by benefitting from cutting-edge technologies; understand the

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main differences, pros and cons of the alternative technologies to carry out design tasks supported by 3D-printing devices

- iii. Acquire knowledge about some important Additive Manufacturing processes used for the fabrication of prototypes and components; be able to identify the advantages and limitations of Agile Manufacturing and Additive Manufacturing processes in the overall context of design, manufacturing and industrial engineering.

Applying knowledge and understanding

Students will have the ability to apply their knowledge to select and employ Agile Engineering and Rapid Prototyping techniques in the Engineering field. The group exercises in the classroom and in the laboratory through hands-on experiments, conversations with the lecturer and the performance in specific tasks would enable the assessment and evaluation of the students' ability to apply their knowledge and understanding of the topics covered during the course.

Skills you gain:

Making judgements

Students will be able to compare the existing tools that have been developed for 3D scanning and Additive Manufacturing. They will develop critical capabilities about the pros and cons regarding said instruments. In addition, they will be able to explain alternative strategies for achieving the results obtained through Agile Engineering and Rapid Prototyping within product design.

Communication skills

Students will have the ability to structure and prepare scientific and technical documentation pertaining to the fundamentals of Agile Engineering and Rapid Prototyping. Moreover, they will have the ability to present, communicate and critically discuss the topics covered during the course.

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Learning skills

Students will be able to combine the knowledge acquired during the course with respect to the theoretical background of the teaching, the experience gathered by means of lab tests and notions about trends in the field, gained through the recent literature in the domain.

Students will have the opportunity to extend the knowledge of the topics of the course by consulting scientific literature and specialized texts or websites that the lecturer will suggest during the course.

Resource Persons:

Ms.Kavita Kripalani Dy. Director GIC CED,

Mr.Ragesh Bateriwala Keep Sake Welding Technologies

EVENT CALENDAR

Date: 23rd July - 27th July 2019

Time: 10:30 AM to 5:00 PM

Venue:

Keepsake Automation LLP

1st Floor, Keepsake Welding Research & Skill Development Centre, L D College of Engineering Campus, University Road, Ahmedabad 380015, Gujarat, India.

Detail Event Schedule (Appendix A - Page No 6)

TRAVEL AND ACCOMMODATION

Participating faculties/students have to make necessary arrangement for their travel and accommodation and TA/DA will not be provided

REGISTRATION FEE (Including GST)

Fees: 300/- Rs for Student from GTU affiliated Colleges (College ID Card is compulsory)

500/-Rs for Non GTU Students

800/- Rs. for Research/Phd Scholar, Faculty of Institutes, Industrial Persons

For Any Query Contact to : Ms. Kavita Kripalani, deputy_dir9@gtu.edu.in

(+91-9737319316)

Sd/-
Registrar

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Before Payment Kindly go through Registration Link and Check Registration Full or Not

HOW TO REGISTER?

Fill registration form online using below mentioned link on

Registration Link:

<https://forms.gle/qBpHKyJggbK7c3DE9>

Step 1: Open Following Link in browser

Link:<https://www.onlinesbi.com/prelogin/institutiontypedisplay.htm>

Select: State of Corporate/Institution as **Gujarat**

Type of Corporate/Institution: **Education Institutes**

Press **Go** for Next Step

State Bank Collect 02-Jan-2018 [12:15 PM IST]

Select State and Type of Corporate / Institution

State of Corporate/Institution * Gujarat

Type of Corporate/Institution * Educational Insitutions

Go

Step 2: Educational Institutions Name: Gujarat Technological University

Press **Submit** for Next Step

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Select from Educational Institutions *

Educational Institutions Name GUJARAT TECH-NOLOGICAL UNIVERSITY

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Fill up your Detail

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Remarks

Appendix A

Winners of : ICT Enabled University Award E-India - 2009 ❖ Manthan Award - 2009 ❖ GESIA Award - 2011
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Course Content

Date & Day	Theory Sessions	Practical Exposure
23/07/2019 Tuesday	Registration & Inauguration (9.40 AM to 10:00 AM) Welding Safety & MMAW By: Dr. P.R.Rathod (10.00AM to 11.30AM) Methods of Welding : TIG, MIG By: Prof. D.K.Patel (11.30A.M to 1.00 PM)	Practice of MMAW on Simulator, spark test and Demonstration of MMAW (2.00PM TO 05.00 PM)
24/07/2019 Wednesday	Consumable and its classification By: Prof. D.K.Patel (10.00AM to 11.30AM) Penetration Vs Fusion Mr.RajeshBateriwa (11.30A.M to 1.00 PM)	Practice of MIG On Simulator, spark test and Demonstration of MIG (2.00PM TO 05.00 PM)
25/07/2019 Thursday	Weldment Metallurgy By: MrunalChaudhary (10.00AM to 11.30AM) Join Design & Welding Position By: NileshChudashma (11.30A.M to 1.00 PM)	Practice of TIG On Simulator, spark test and Demonstration of TIG (2.00PM TO 05.00 PM)
26/07/2019 Friday	Weldment Testing/Welding Defects./Demonstration By: ShriNilendu Desai (10.00AM to 1.00 PM)	NDT & Welding Test DP/Visual/MPT (2.00PM TO 05.00 PM)
25/07/2019 Saturday	Thermal Spray Mr.RageshBetariwala (10.00AM to 11.30AM) Identify consumable & Its Usage and Robotic Welding (11.30A.M to 1.00 PM)	Practice Case study on welding & Certificate Distribution. (2.00PM TO 05.00 PM)
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