

## **A Report on**

GTU Sponsored & ISTE Approved  
One Week Faculty Development Program (FDP) on

## **“Introduction to Process Modeling and Analysis Using CAD Tools”**

17<sup>th</sup> December to 22<sup>nd</sup> December 2018

### **ORGANIZED BY**

MECHANICAL ENGINEERING DEPARTMENT

**SHREE SWAMI ATMANAND SARASWATI**

**INSTITUTE OF ENGINEERING, SURAT**

### **Event Coordinator**

**Prof. Vijaykumar A. Radadiya**

Assistant Professor

Mechanical Engineering Department

SSASIT, SURAT

### **Event Co-COORDINATORS**

Prof. Vishal H. Tailor, Asst. Prof, MED, SSASIT

Prof. Mayur B. Gohil, Asst. Prof, MED, SSASIT

Prof. Manish D. Savaliya, Asst. Prof, MED, SSASIT

## **OBJECTIVES OF FDP**

- To expose CAE/CAD methodologies & tools to participants and equip them to solve variety of engineering and industrial problems.
- To enhance the FEA skills of the participants so that they can rely more on virtual tools to accelerate the design and development of processes and products.
- Faculties/Students will learn how to perform a complete ANSYS analysis step-by-step.
- Faculties/Students will learn about building or importing solid models & meshing, apply boundary conditions, solving & reviewing results.

## **VARIOUS EXPERTS DELIVER THEIR KNOWLEDGE & SKILLS IN THE FOLLOWING BROAD AREAS:**

<b>SR. NO.</b>	<b>DATE</b>	<b>TOPIC</b>	<b>SPEAKER</b>
1.	17/12/ 2018 <b><u>Session-01</u></b>	CAD/CAD Integration: Past and Present	Prof. (Dr.) H. K. Raval Professor,SVNIT, Surat
2.	17/12/ 2018 <b><u>Session-02</u></b>	Role of Design in Innovation: Past, Present and Future	Shri Rahul Gaywala CEO, STPL
3.	18/12/ 2018 <b><u>Session-01</u></b>	Size Effect in Manufacturing	Prof. (Dr.) A. H. Gandhi Principal, CKPCET, Surat
4.	18/12/ 2018 <b><u>Session-02</u></b>	Process Modeling: Application of CAD and Innovation Opportunity	Dr. L. Ramanan CTO, SMT, Surat
5.	19/12/ 2018 <b><u>Session-01</u></b>	Finite Element Formulation of 1-D Differential Equation	Dr. C. K. Desai Associate Professor, CKPCET
6.	20/12/ 2018 <b><u>Session-01</u></b>	Metal Casting: Design, Modeling and Simulation	Prof. (Dr.) Mayur Sutariya Professor, CHARUSAT
7.	21/12/ 2018 <b><u>Session-01</u></b>	Overview of ESPRIT CAD/CAM Software and Industry 4.0	Shri Mohamed Maitheen Technical Manager, ESPRIT, India
8.	22/12/ 2018 <b><u>Session-01</u></b>	Product Development Process & Role of Design in 3D Printing	Mr. Tejas Diyora Co- Founder, Make3d.In

Day 1: 17/12/2018

**Inaugural Ceremony :**



TOPIC	SPEAKER
CAD/CAD Integration: Past and Present	Prof. (Dr.) H. K. Raval Professor,SVNIT, Surat
Role of Design in Innovation: Past, Present and Future	Shri Rahul Gaywala CEO, STPL



## Day 2: 18/12/2018

TOPIC	SPEAKER
Size Effect in Manufacturing	Prof. (Dr.) A. H. Gandhi Principal, CKPCET, Surat
Process Modeling: Application of CAD and Innovation Opportunity	Dr. L. Ramanan CTO, SMT, Surat



18/12/2018, Day 02: Speaker 01 Dr. Anishkumar H. Gandhi, Principal, CKPCET, Surat



18/12/2018, Day 02, Eminent Speaker 02  
Dr. L. Ramanan, CTO, SMT



Day 02: Hands on Session On SolidWorks



### Day 3: 19/12/2018

TOPIC	SPEAKER
Finite Element Formulation of 1-D Differential Equation	Dr. C. K. Desai Associate Professor



## Day 4: 20/12/2018

TOPIC	SPEAKER
Metal Casting: Design, Modeling and Simulation	Prof. (Dr.) Mayur Sutariya Professor, CHARUSAT



20/12/2018 Day 04: Prof. (Dr.) Mayur Sutariya, Professor, CHARUSAT, Changa



20/12/2018 Day 04: Hands On Session on Mold Simulation and CFD by SOPAN Group



**Day 5: 21/12/2018**

TOPIC	SPEAKER
Overview of ESPRIT CAD/CAM Software and Industry 4.0	Shri Mohamed Maitheen Technical Manager, ESPRIT, India



## Day 6: 22/12/2018

TOPIC	SPEAKER
Product Development Process & Role of Design in 3D Printing	Mr. Tejas Diyora Co- Founder, Make3d.In





## Valedictory Ceremony



**Report Prepared By**  
**Prof. Vishal H. Tailor**

**Report Submitted to**  
**ISTE and GTU**