

# Pranav Mehta

Assistant Professor

Department of Mechanical Engineering,  
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<b><u>RESEARCH INTERESTS</u></b>	
Solar Energy, Renewable Energy, Solar Drying and Distillation systems ,Practical and Field Applications of Solar Gadgets, Thermal Science, Computational Fluid Dynamics study of systems,	
<b><u>EDUCATION</u></b>	
<b>Marwadi Education foundation Group of Institutions, Rajkot</b>	<b>2016-18</b>
Masters of Engineering In Thermal Engineering	<b>8.94/10</b>
<b>Government Engineering College , Bhavnagar</b>	<b>2012-16</b>
Bachelors of Engineering in Mechanical Engineering	<b>8.74/10</b>
<b><u>Research Experience</u></b>	

**1. Central Salt and Marine chemical Research institute (CSIR-CSMCRI), Bhavnagar Gujarat, India**  
**Project Intern- Process Design and Engineering Cell 2017-18**

- Research work carried out at CSMCRI
  - ✓ Designing and fabricating solar gadgets.
  - ✓ Conducting field experiments in different region of the India.
  - ✓ System modeling and analysis, optimization, mathematical study.
  - ✓ Modification within developed systems, improving efficiencies of existing systems, economically viable gadgets development.

## **Professional Experience**

**2. Gujarat Power Engineering and Research Institute Gujarat, India**  
**Assistant Professor-Department of Mechanical Engineering Jan.2019-May 2019**

- Teaching at U.G Level-Engineering Thermodynamics, Heat and Mass Transfer, I.C Engines, Power Plant Engineering, and Fluid Mechanics and Hydro machines, Renewable energy Engineering, Elements of Mechanical Engineering

**3. Dharmsinh Desai University Gujarat, India**  
**Assistant Professor-Department of Mechanical Engineering June 2019- Present**

- Teaching at U.G Level-Engineering Thermodynamics, Heat and Mass Transfer, Fluid Mechanics and Hydro machines, Renewable energy Engineering, Elements of Mechanical Engineering

## **PUBLICATIONS**

- **P.Mehta, S.Shamddar, P.Patel, B.Markam, S.Maiti** “Design and performance analysis of a mixed mode tent-type solar dryer for fish-drying in coastal areas” Solar Energy, 170, pp.671-681, 2018.
- **P.Mehata, R.Jhala, A.Harichanadan** “Design and Mathematical modeling of Mixed Mode Solar Dryer Applicable for Small Scale Application”, *2<sup>nd</sup> International Conference on Technological Innovations in Engineering and Management (ICTIEM-2018)* (ISBN-978-81-932966-8-4) during February 26-27, 2018 at DIEMS, Aurangabad.

- **P.Mehata, R.Jhala, A.Harichandan** “Design and Mathematical Modelling of Indirect Solar Dryer for Small Scale Application ” 3<sup>rd</sup> *International Conference on Innovative Design, Analysis & Development Practices in Aerospace and Automotive Engineering (IDAD-2018)* (Springer Publication) during February 22- 24, 2018 at VEL Tech University, Chennai.

## **SCHOLARSHIPS**

- Merit-Based GATE postgraduate scholarship, 2016-2018 (4000 AUD)

## **WORKSHOPS**

- Attended 3-days workshop on **Computational Fluid dynamics** at Indian Institute Of Technology, Gandhinagar during March 28-30, 2018.
- Attended 5-days workshop on **Solar PV Technology and its Business Prospective** At Gujarat Power Engineering and Research Institute, Mehsana during March 25-30, 2019.
- Attended 3-days workshop on **Potential Need for Electric Vehicles, its Future Challenges and opportunity for the Indian Market** At Gujarat Power Engineering and Research Institute, Mehsana during March 14-16, 2019.

## **TECHNICAL SKILLS**

- Certified in AUTICAD software .
  - ✓ Thermal Analysis
  - ✓ Fluid Flow Analysis
  - ✓ RobCad Basics/Robcad Advance Kinematics/Process Design Basics
- ANSYS, EXCEL SOLVER

## **INDUSTRIAL TRAINING**

- One week of industrial training at Krisular Castomech Pvt. Ltd.

## **REFEREES**

1. Dr. Subarna Maiti  
Principal Scientist  
Process Design and  
Engineering Cell  
CSMCRI, Gujarat, India  
Email: [smaiti@csmcri.res.in](mailto:smaiti@csmcri.res.in)

2. Mr. Bhupendra Kumar  
Markam  
Scientist  
Process Design and  
Engineering Cell  
CSMCRI, Gujarat, India  
Email: [bkmarkam@csmcri.res.in](mailto:bkmarkam@csmcri.res.in)

3. Dr. Atal  
Harichandan  
Assistant Professor  
Department of Aeronautical  
KIIT, Bhubaneswar  
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4. Dr. N.M. Bhatt  
Professor  
Mechanical Department  
LDCE, Ahmedabad, India  
Email: [nmbhatt19@gmail.com](mailto:nmbhatt19@gmail.com)