

Name Dr. Akash Bhavsar

**Designation Program Coordinator & Assistant Professor,
Mechanical Engineering**

Phone: 9924242300

E-mail: akash.bhavsar@gsfcuniversity.ac.in

School: School of Technology

2 inches square



(2X2)

Research Interest:

- Optimization
- Mathematical Modeling
- Thermal System Design
- Energy Audit & Management
- HVAC
- RAC
- CFD

Academic Background:

Degree	Subject	University	Year
<u>PhD</u>	<u>Mechanical Engineering</u>	<u>Madhav University</u>	<u>2022</u>
<u>MS</u>	<u>Mechanical Engineering</u>	<u>University of Utah, USA (Globally ranked among top 250 universities) (Graduate Research Scholar, National Science Foundation (NSF))</u>	<u>2012</u>
<u>BE</u>	<u>Mechanical Engineering</u>	<u>Gujarat University</u>	<u>2009</u>

Professional Experience:

From	Period	Position	Organisation
<u>August 2017 to Present</u>	<u>5 years</u>	<u>Program Coordinator and Assistant Professor</u>	<u>GSFC University</u>
<u>July 2016 to August 2017</u>	<u>1 year 2 months</u>	<u>Assistant Professor</u>	<u>Silver Oak College of</u>

			<u>Engineering and Technology</u>
<u>January 2016 to July 2016</u>	<u>7 Months</u>	<u>Division Manager, Chiller Water Systems</u>	<u>Vallabh Aircon</u>
<u>Sptember 2014 to November 2015</u>	<u>1 Year 4 months</u>	<u>Mechanical Engineer</u>	<u>Diversified Maintenance Systems</u>
<u>May 2012 to September 2014</u>	<u>2 years 4 months</u>	<u>Research Engineer, Mechanical Department</u>	<u>Van Boerum and Frank Associates</u>

Teaching Engagements:

Title	Course Code	Class Name	School Name
<u>Energy Management System</u>	<u>20ME701</u>	<u>BTech</u>	<u>School of Technology</u>
<u>Refrigeration and Air Conditioning</u>	<u>20ME604</u>	<u>BTech</u>	<u>School of Technology</u>
<u>Power Plant Engineering</u>	<u>20ME801</u>	<u>BTech</u>	<u>School of Technology</u>

Publications:

- 1 Mathematical model of cycad cones' thermogenic temperature responses: Inverse calorimetry to estimate metabolic heating rates, Journal of Theoretical Biology,87-96, 2012
- 2 Experimental investigation of diesel engine operating parameters for mixture of acetylene and turpentine oil with diesel by design of experiment, International Journal for Innovative research in Science and Technology, 11-16, 2017
- 3 Finite Element Analysis (FEM) of spent fuel rod for study of effect of uniaxial tensile stress on crack propogation and structural stability, International journal of technical innovation in modern engineering & science
- 4 Study of effect of uniaxial tensile stress on crack propagation and structural stability with finite element analysis, Journal of Engineering technologies and Innovative research
- 5 "Flat plate collector solar air heater" simulation and analysis, Investigations in Flate Plate Collector, International journal of technical innovation in modern engineering & science
- 6 Thermal and Economic analysis of solar organic rankine cycle, International journal of scientific research in science, engineering and technology
- 7 Finite element analysis of uniaxial tensile stress on metal plate with different crack characteristics to understand degradation, International journal of scientific research in science, engineering and technology

- 8 CFD analysis of convection for vertical plate to understand temperature and velocity degradation due to thermal stress, Aut Aut
- 9 Optimization of performance of heat exchanger through nano fluid particles, International journal of scientific research in science and technology

Awards/Recognitions:

- **Graduate Research Scholar from National Science Foundation (NSF), 2009 to 2012**
- **Graduate Scholar Award from American Society of Heat Ventilation Air-conditioning and Refrigeration Engineers (ASHRAE)**