



## Aditya H. Shukla

Faculty (Mechanical Engineering)  
Academy for Skill Development,  
AM/NS India, Hazira, Surat.

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### EDUCATION

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<b>Ph. D. in Mechanical Engineering (Pursuing)</b> Gujarat Technological University, Chandkheda, Ahmedabad	<b>2019 to Present</b>
<b>M.E. in Mechanical Engineering</b> L. D. College of Engineering, Ahmedabad	<b>2014 – 2016</b>
<b>B.E. in Mechanical Engineering</b> Shree Swami Atmanand Saraswati Institute of Technology (SSASIT), Surat.	<b>2010 – 2014</b>

### TEACHING EXPERIENCE

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<b>Faculty</b> Academy for Skill Development, AM/NS India, Hazira, Surat.	<b>Feb. 2022 to present</b>
<b>Assistant Professor</b> Shree Swami Atmanand Saraswati Institute of Technology, Surat	<b>2016 to Jan. 2022</b>

### KNOWLEDGE & SKILL DEVELOPMENT ACTIVITIES

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#### **NPTEL – SWAYAM Courses:**

MHRD Initiative: Conducted by IITs with Industrial Support.  
No. of courses completed: 18  
Subject: Engineering & Technology  
Duration: 148 weeks in total.

#### **Faculty Development Program (FDP)/ Short Term Training Program (STTP):**

Successfully completed more than 15 FDPs/STTPs to enrich and update knowledge base according to the need of an hour.

#### Five most recent FDPs/STTPs are:

**FDP Title:** Industry 4.0 and Manufacturing: Factory of Future Perspectives

Duration: 01 Week (July 2021)

Organized by: Production Engineering Department, LE College, Morbi under AICTE Training and Learning (ATAL) Academy, New Delhi

**FDP Title:** Outcome Based Education and Accreditation Process

Duration: 01 Week (June 2021)

Organized by: Oriental College of Technology, Bhopal under AICTE – RGPV

**STTP Title:** Recent Trends & Scope in Solar Technology

Duration: 01 Week (May 2021)

Organized by: Mechanical Engineering Department, SSASIT, Surat. (GUJCOST sponsored One Week)

**STTP Title:** Research Methodology and Technical Writing (RMTW – 2020)

Duration: 01 Week (December 2020)

Organized by: Civil Engineering Department, Dr. S. & S. S. Ghandhy Engineering College, Surat.  
(GUJCOST sponsored One Week)

**FDP Title:** Comprehensive Quality Initiatives for Higher Education in Pandemic Era

Duration: 01 Week (May 2020)

Organized by: Internal Quality Assurance Cell of Uka Tarsadia University (UTU), Bardoli

## **PUBLICATIONS**

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- Working as an Assistant Professor, guided total **09 Undergraduate** Projects in past five years and published/presented **07 Research Papers** in reputed International Journals and Conference Proceedings.

### **Journal Papers**

1. Aditya Shukla et al., "Effect of Laser ignition on combustion and performance of Internal Combustion Engine: A Review" (2022), Energy Conversion and Management: X, Volume 13. (SCOPUS Indexed Journal, Publisher: Elsevier)
2. Aditya H. Shukla et al., "Analysis of Performance and Emission of Two-Wheeler Engine with implementation of combined EGR and SCR system: A Review" (2021), International Journal for Research in Applied Science & Engineering Technology, Volume 9, Issue IV, pp 1255 – 1259.
3. A. H. Shukla et al., "Manufacturing of Hand Operated Car Attachment for Person with Disabilities" (2021), International Journal of Engineering Research and Applications, Volume 11, Issue 5.
4. Aditya Shukla et al., "Design Modification of Coal Transport System to Steam Boilers for Manufacturing of Construction AAC Block" (2020), International Journal of Scientific Research and Management, Volume 4, Issue 5.
5. Aditya Shukla et al. presented a paper, "Turbocharging as a means to Improve IC Engine performance by Exhaust Energy Recovery: A Review" in 23rd ISTE State Annual Faculty Convention (2018) with National Conference on "Role of Innovation and Human values in Engineering and Technology".
6. Aditya H. Shukla, "Optimization of Natural Gas Mixer Design using Computational Method for HCCI Engine by improving Swirl Effect" (2016), International Journal for Scientific Research & Development, Volume 4, Issue 3.
7. Aditya Shukla et al. presented a paper, "Optimization of Natural Gas Mixer Design using Computational Method for improving Swirl Effect to obtain enhancement of SI Engine Performance: A Review" in the International Conference on Automotive Technology (2016).

## **COMPUTER PROFICIENCY**

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- Microsoft Excel (Certified Online courses from MACQUARIE University, Australia)
  - Microsoft Office package (Certified CCC course)
  - AutoCAD – Design development software (Certified course from AutoDesk)
  - Basic knowledge of CREO (Pro-E) and ANSYS – Design analysis software
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