

Ashutosh PATEL

PERSONAL DATA

PLACE AND DATE OF BIRTH: Usmanpur, Nalanda, India | 15 August 1991
ADDRESS: School of Aeronautics, Neemrana, Rajasthan, 301705, India
PHONE: +91 9882939019
EMAIL: ashutoshpatelm@gmail.com

EDUCATION

2017 - MS (By Research)
2014 **Indian Institute of Technology (IIT) Mandi**
Fields: Heat Transfer Analysis, Development of Instruments, Automation using LabVIEW and Python
CGPA: 8.25/10
2014 - B.E., Mechanical
2010 **OP Jindal Institute of Technology, Raigarh**
Marks: 72.85/100

PROFESSIONAL EXPERIENCE

Current - | **Assistant Professor**
AUG 2017 | *School of Aeronautics, Neemrana, RJ*

JUNE 2017 - | **Teaching Assistant**
AUG 2014 | *IIT Mandi, Himachal Pradesh, India*

TRAINING AND INTERNSHIP

01-30 JUNE | Intern at JINDAL STEEL & POWER LTD., Raigarh
2012 | *Electric arc furnace division*
Supported the operational and maintenance works.

28 MAY- | Workshop on Pro-E & ANSYS-Basic by Indo-German Institute of
10 June, 2012 | Advanced Technology at JSPL, Raigarh

16-17 | Workshop on E-Robotics by Technex 2011 at OPJIT, Raigarh
March 2011 |

SCHOLARSHIPS AND CERTIFICATES

DEC. 2014 Selected for Council of Scientific & Industrial Research fellowship award (CSIR-UGC NET).
FAB. 2014 Qualified Graduate Aptitude Test in mechanical (GATE-ME) with 98.5 percentile and awarded scholarship for postgraduate study by MHRD, India.

TECHNICAL SKILLS

Instrumentation:	basic electrical circuit design, Arduino, data acquisition and control.
Instruments:	thermoelectric figure-of-merit setup, vacuum system, temperature measurement systems.
Characterization Techniques:	SEM, TEM, EDX, XRD, Nanoindentation.
Programming languages:	C, LabVIEW, Python.
CAD tools:	Pro-E.
CAE tools:	ANSYS Basic.

AREA OF INTERESTS

Heat Transfer
Thermodynamics
Strength of Materials
Theory of Machine

OTHER ACTIVITIES

Reviewer

Measurement Science and Technology - IOPscience

PATENT

1. **A. Patel**, and S. K. Pandey. HIGH TEMPERATURE FIGURE OF MERIT MEASUREMENT SET-UP. (*application no.* [201711027576](#)).

PUBLICATION

Papers in peer refereed journals

1. **A. Patel**, and S. K. Pandey. Fabrication of setup for high temperature thermal conductivity measurement. *Review of Scientific Instruments*, **88**, 015107 (2017).
2. **A. Patel**, and S. K. Pandey. Automated Instrumentation for High-Temperature Seebeck Coefficient Measurements. *Instrumentation science and technology*, **45**, 4, 366–381 (2017).
3. R. K. Maurya, P. Sharma, **A. Patel**, and R. Bindu. Direct evidence of the existence of Mn(3+) ions in MnTiO(3). *EPL (Europhysics Letters)*, **In press**.
4. **A. Patel**, and S. K. Pandey. Fabrication of fully automated setup for high temperature thermoelectric figure-of-merit measurement. (*Under review*).
5. S. Singh, S. Srivastav, **A. Patel**, R. Chatterjee, and S. K. Pandey. Effect of nanostructure on thermoelectric properties of La_{0.7}Sr_{0.3}MnO₃ in 300-600 K range. (*Under review*).

Papers in Conferences and Symposia

1. **A. Patel**, S. Sisodia, and S. K. Pandey. Interfacing of High Temperature Z meter Setup Using Python. *AIP Conference Proceedings*, **1832**, 1, 060002 (2017).

CONFERENCES/SYMPOSIA ATTENDED

“61st DAE Solid State Physics Symposium (DAE SSPS 2016)” KIIT University, Bhubaneswar-751024, Odisha, India, December 26th to December 30th, 2016.

REFERENCES

Dr. Sudhir Kumar Pandey

Assistant Professor
School of Engineering
Indian Institute of Technology Mandi
sudhir@iitmandi.ac.in, +91 (1905) 267066

Dr. Viswanath Balakrishnan

Assistant Professor
School of Engineering
Indian Institute of Technology Mandi
viswa@iitmandi.ac.in, +91 (1905) 237929

Dr. Bindu Radhamany

Assistant Professor
School of Basic Science
Indian Institute of Technology Mandi
bindu@iitmandi.ac.in, +91 (1905) 237919