



Name: Prof. Daya Shankar

Designation: Assistant Professor

Branch: Mechanical Engineering

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Educational Qualification(s):

Qualification(s)	University
PhD (Fluid and Thermal Engineering)	IIT, Guwahati

Experience:

Academic: 2 years and 10 months+ 6 years 5 months Teaching assistant

Sl. No.	Organization	Position Held	Duration	
			From	To
1.	IIT, Guwahati	Teaching Assistant	July,2011,	Dec,2017
2.	Patna Institute of Technology, Magadh University	Assistant Professor	May, 2010	July, 2011
3.	Government Women's Polytechnique, Patna, Bihar	Lecturer	May, 2009	July,2010

Industrial: **08 months**

Sl. No.	Organization	Position Held	Duration	
			From	To
1.	National Thermal Power Corporation (NTPC), Kahalgaon	Engineering Executive Trainee (EET)	OCT, 2008	May, 2009

Other Information:

FIELDS OF TEACHING AND RESEARCH INTEREST

Non-linear Dynamics, Advance Mathematics, Control system, Artificial Intelligence, Advance Fluid dynamics, Convective and Boiling Heat Transfer, Advance Thermodynamics, Nuclear Reactor Thermal Hydraulics, Engineering Thermodynamics, Heat Transfer, Two Phase Heat Transfer, Fluid Dynamics, Thermal Physics, Modern Physics, General Physics, and many more.

AWARDS AND ACHIEVEMENTS

- ✓ Qualified **GATE 2011 (Graduate Aptitude Test in Engineering)** having percentile **99.98** in the Mechanical Engineering stream.
- ✓ **Overall University and Branch Topper** in all the four years in B. Tech (Mechanical Engineering).
- ✓ **3rd Position** in merit list of **PhD** selection in **IIT Guwahati**, **3rd Position** in **IIT Kanpur** and **1st Position** in **IIT Patna**.
- ✓ Got **Scholarship** from MHRD for **PhD**.
- ✓ Got **World most prestigious** fellowship for visiting Technical University **Munich (TUM, Germany)**
- ✓ **Japanese Government fellowship** for visiting **Japanese university**
- ✓ Among the **one** in 15 members selected for learning “**Basic interactive Japanese Language Course**”, by **Japanese government** organized in **IIT Guwahati**
- ✓ Selected and got a **funding** for attain the symposium and presentation, among the **two** (another, IIT Kanpur) from IIT'se at **IIT, Mumbai** organized by **A. N. S. (American Nuclear Society)**
- ✓ Selected as a core organizing members of International symposium “**Processing and Fabrication of Advanced Materials XXI**” in IIT, Guwahati.
- ✓ Selected as an **instructor by MESA (IIT, G)**, conducted a workshop on “**MATLAB BASICS**” in **IIT, Guwahati** to teach basic of MATLAB to more than 300 students and faculties of government institutions including NIT's.
- ✓ Delivered an expert talk on “**How to Prepare for Engineering Entrance Exam**” on **All India Radio**.
- ✓ Won several **prizes for best fine artist** for my **several paintings**.

- ✓ Having **1st degree** certificate in **REIKI**
- ✓ Several national and international certificates in **Yoga and Meditations**
- ✓ Several **certificates and prizes** in **web development** and **social media marketing**.
- ✓ Got funding's for one of the **2 Startups** from **government of India**.

OTHER TEACHING EXPERIENCES

- ✓ More than **5+ years of online e-teaching experience** for different subject like MATLAB, Engineering subjects, Physics etc.
- ✓ More than **1+ year** of teaching experience to the student preparing for GATE in reputed institute like **GATE FORUM**.

WORKSHOP & SHORT-TERM COURSES

- ✓ Training course on **AutoCAD** from **Tool Room & Training Center** (Ministry of SSI), Patna.
- ✓ Short term training program for technical teachers only from **National Institute of Technical Teacher Training & Research(NITTTR), Kolkata** on "**Power Plant Engineering**"
- ✓ Short term training program from department of Mechanical Engineering, **IIT, Guwahati** on "**Mechanical Engineering Education**".
- ✓ Short term training program for technical teachers only from department of Mechanical Engineering, **IIT, Roorkee** on "**Computer Aided Design in Mechanical Engineering Curriculum**"
- ✓ Summer certificate course on "**Japanese Language and Culture-A1 Introductory Conversation**", from **IIT Guwahati**
- ✓ National workshop on "**State of the Art in Microfluidics**" conducted under Technical Education Quality Improvement Program (TEQIP) at **IIT, Guwahati**.

Publication details

- ✓ **Shankar, D., Basu, D.N. & Pandey, M., 2013. Study on design of scaled down test facilities for investigation of instabilities in supercritical water reactor.** In International Conference on Nuclear Engineering, Proceedings, ICONE in China.
- ✓ **Shankar, D., Pandey, M. & Basu, D.N., 2017. Lumped Parameter Analysis for A Supercritical Water-Cooled Reactor Following Three-Region Model.** Proceedings of the 24th National and 2nd International ISHMT-ASTFE. Heat and Mass Transfer Conference (IHMT-2017).
- ✓ **Shankar, D., Pandey, M., Basu, D. N., Coupled-Neutronic-Thermal hydraulic Stability Appraisal of Supercritical Forced Flow Channels Following Lumped Parameter Approach,** Proceedings of the 16th International Heat Transfer Conference (IHTC16-23961), IHTC-16, August 10-15, 2018, Beijing, China.
- ✓ **Shankar, D., Basu, D.N., Pandey, M., 2017. Development and Analysis of a Novel Scaling Methodology for Stability Appraisal of Supercritical Flow Channels.** Nucl. Eng. Des. 323, 46–55
- ✓ **Shankar, D., Pandey, M., Basu, D.N., 2018. Parametric Effects on Coupled Neutronic Thermohydraulic Stability Characteristics of Supercritical Water Cooled Reactor.** Ann. Nucl. Energy 112, 120–131.

