### Registration Form

1. Name of applicant (in Block Letters): Ms./Mr.

2. Educational Qualification:

3. Designation:

4. Name of the Institution/industry:

5. Address for communication:

6. E-mail:

7. Phone/Mobile:

8. D.D. No.: Date: Bank Name: Amount (Rs.):

---

### Patron

Prof. Asok De  
Director, NIT Patna

### Chairman

Emeritus Prof. Pulak Sengupta

### Organizing Secretary

Prof. Om Prakash

### Coordinators

Dr. Abhishek Singh & Dr. Sharifuddin Mondal  
Department of Mechanical Engineering

### Advisory Committee

**External committee**

Prof. P.M.V. Subbarao, IIT Delhi  
Dr. V. Sridhara, GM (AERDC), HAL Bengaluru  
Shri Debashis Deb, GM (SED), HAL Koraput  
Dr. C.P. Ramanarayanan, OS & Director, GTRE DRDO Bengaluru  
Prof. Samsare, Director, NIELIT, Inderlok, Delhi

**Internal committee**

Prof. Sudarshan Singh  
Prof. S. K. Verma  
Mr. S.S. Prasad  
Dr. A.N. Sinha  
Dr. Prakash Chandra  
Mr. M.N. Pandey  
Mr. Shahid Mahmood  
Dr. Amit Kumar  
Mr. Arun Kumar  
Dr. A.G. Barman  
Mr. Naresh Kumar  
Dr. Anil Kumar Das  
Mr. A.K. Shahni  
Prof. N.R. Lal

### Organizer Committee

Dr. Anand Bhushan  
Dr. Anupam Das  
Dr. Nilamber Kumar Singh  
Dr. Vikas Upadhyay  
Dr. Nimai Pada Mandal

---

### Organizing Secretary

Prof. Om Prakash

### Coordinators

Dr. Abhishek Singh & Dr. Sharifuddin Mondal

### Organized by

Department of Mechanical Engineering  
National Institute of Technology Patna  
Ashok Rajpath-800005, Patna
About the GT-DOMPP-2015:

The aim of the present program is to introduce the recent developments and applications of Gas Turbine, operations and maintenance for power and propulsion. This program is conducted 1st time in NIT Patna. The program is an interdisciplinary one and is open for all engineering faculty members, research scholars and industry personnel. Program may lead to active collaboration between participants and resource persons in these areas.

This interactive workshop provides review and reinforcement of relevant thermodynamic and aerodynamic concepts as applied to gas turbine engines, and introduces performance calculation methods of both aircraft engine and power generation gas turbines. The workshop emphasizes fundamentals which will be helpful for the practicing engineer but is not designed to review industrial practices which are usually proprietary. The acquired knowledge, including the review of illustrative examples, will enhance the participants’ ability to excel in various assignments in gas turbine design, development, education, and application. After completing the course the participants should be able to apply aero thermodynamic concepts to the analysis of gas turbine engines; combustor characteristics; analyze cycle analysis problems on integrating the component performances to get the overall engine performance. The illustrative examples on the integration of the component performances to obtain the overall performance will facilitate comprehension of compressor/turbine matching; accounting for turbine cooling flows; the method of sizing critical flow path areas at the design point.

Resource Persons:

Lectures will be delivered by the faculty members from IITs, NITs and other reputed institutes, DRDO and HAL.

The seminar has added provisions for distinguished speakers from various HAL engine divisions and also from DRDO Laboratory, GTRE (Gas Turbine Research Establishment). The Airworthiness agency of the Military aviation under DRDO will also deliver a lecture on certification process of engine power plant and defects investigation

Eligibility Criteria:

Participation in this STC is open to the students, research scholars and faculty members of science and Engineering streams. It is also open to the Engineers who are working in the R&D organizations, industry and who wish to gain a basic understanding of the concepts involved.

About the Institute:

National Institute of Technology Patna is the 18th National Institute of Technology created by the Ministry of Human Resource Development, Govt. of India after rechristening the erstwhile Bihar College of Engineering, Patna. The Institute has highly qualified faculty of higher caliber in various disciplines. Institute offers B.Tech, M.Tech & Ph.D programmes in respective field of Engineering, Sciences and Technology with well-equipped laboratories. The institute is situated on the south bank of holy river Ganges behind Gandhi Ghat, one of the most important and reverential place of Patna. The Gandhi Ghat is associated with the immersion of ashes of father of the Nation Mahatma Gandhi in the river Ganges. The campus has a picturesque river view with historic heritage building presenting a spectacle of architectural delight and natural beauty. The Institute campus is 8 km from the Patna Junction railway station and 15 km from the Jai Prakash Narayan International Airport Patna.

Registration:

Registration Fee

Faculty/ Researchers : Rs. 5000
Research Scholars/Students : Rs. 2000
Industrialists and R&D Institutions : Rs. 5000

Applications should send a Demand Draft (DD) for fee with the registration form. The DD must be drawn (from any Nationalized Bank) in favour of, “The Director, NIT Patna” payable at Patna.

Last date for receiving the registration form along with the DD is 15 May, 2015.

The complete application form in the prescribed proforma along with registration fee should reach organizing secretary.

Accommodation:

Accommodation, on request and advance payment along with registration fee, only for a limited number of out-station participants, on a first come first serve basis can be made.

Contacts:

Prof. Om Prakash;
Email: dromprakash67@gmail.com
Mobile: 09334814969

Dr. Abhishek Singh;
Email: abhishek.singh@nitp.ac.in
Mobile: 08005092513

Dr. Sharifuddin Mondal;
Email: sharifuddin@nitp.ac.in
Mobile: 09907892315