

# Brief CV

## Personal Details

*Ujjwal K. Saha*, PhD (1996), IIT Bombay

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Indian Institute of Technology Guwahati

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## Professional Experiences

- Professor – IIT Guwahati – Since February 2012
- Associate Professor – IIT Guwahati – September 2003 to February 2012
- Assistant Professor – IIT Guwahati – July 2000 to September 2003
- Lecturer – NERIST, Itanagar – October 1996 to July 2000

## Courses Taught

- Engineering Drawing (UG)
- Fluid Mechanics – I & II (UG)
- Thermodynamics – (UG)
- Applied Thermodynamics – I & II (UG)
- Mechanical Measurements (UG)
- Internal Combustion Engines (UG)
- Experimental Methods (PG) – *Shared*
- Fluid Mechanics (PG)
- Aerodynamics (PG)
- Gas Turbine Theory (PG)
- Introduction to Aerospace Engineering (UG/PG)
- Rocket Propulsion (UG/PG)
- Technical Writing (PG)
- Applied Mechanics (UG) @ NERIST
- Hydraulic Machinery (UG) @ NERIST
- Thermal Turbomachines (UG) @ NERIST

## Research Interests

Areas of research interest include, but are not limited to

- Turbomachines (Wind, Hydro)
- Aerodynamics (Bluff Body, Sports)
- Reciprocating I C Engines (Diesel, Dual Fuel)
- Alternative Fuels (Gaseous, Liquid)
- Aerospace Propulsion (Nozzles, Fans/Compressors)
- Aerospace Engineering Education

## Supervision of Students

- **PhD** = 12 Completed + 7 Ongoing (*Graduated PhD students are listed in page 6*)
- **MTech** = 62 Completed + 4 Ongoing
- **MS(R)** = 04 Completed
- **BTech** = 33 Completed (*including 7 from NERIST*) + 1 Ongoing

Details of journal/conference publications can be found from [Google Scholar Citations](#).

## Selected Journals

- [AIAA Journal of Aircraft](#), 2012
- [AIAA Journal of Spacecraft and Rockets](#), 2021
- [AIP Journal of Renewable and Sustainable Energy](#), 2013, 2018, 2021, 2022
- [Applied Energy](#), Elsevier, 2014
- [Applied Thermal Engineering](#), Elsevier, 2012, 2016
- [ASCE Journal of Energy Engineering](#), 2014<sup>2</sup>, 2016, 2017, 2018, 2020
- [ASME Journal of Computing and Information Science in Engineering](#), 2022<sup>2</sup>
- [ASME Journal of Fluids Engineering](#), 2021
- [ASME Journal of Energy Resources Technology](#), 2016, 2018<sup>2</sup>, 2019<sup>2</sup>, 2020<sup>2</sup>, 2021<sup>2</sup>, 2022<sup>3</sup>
- [ASME Journal of Engineering for Gas Turbines and Power](#), 2011, 2014, 2015, 2019, 2022
- [ASME Journal of Solar Energy Engineering](#), 2019<sup>2</sup>, 2021, 2022
- [Cleaner Engineering and Technology](#), Elsevier, 2022<sup>2</sup>
- [Computers and Structures](#), Elsevier, 2009
- [Current Science](#), Indian Academy of Sciences, 2017
- [Energy](#), Elsevier, 2011, 2018
- [Energy Conversion and Management](#), Elsevier, 2013<sup>2</sup>, 2014<sup>2</sup>, 2018<sup>2</sup>, 2019, 2020
- [Experimental Thermal and Fluid Science](#), Elsevier, 1997, 2013
- [Fuel](#), Elsevier, 2018
- [International Journal of Ambient Energy](#), Taylor & Francis, 2020
- [International Journal of Exergy](#), Inderscience, 2012
- [International Journal of Heat and Mass Transfer](#), Elsevier, 2013, 2014
- [International Journal of Turbo & Jet Engines](#), Freund, 1995<sup>2</sup>, 1996, 2005
- [Journal of the Energy Institute](#), Elsevier, 2019
- [Journal of Marine Science and Application](#), Springer, 2013
- [Journal of Power Technologies](#), Institute of Heat Engineering, Poland, 2012
- [Journal of the Institution of Engineers \(India\): Series C](#), Springer, 2021
- [Journal of Wind Engineering & Industrial Aerodynamics](#), Elsevier, 2008
- [Ocean Engineering](#), Elsevier, 2009
- [Proc. IMechE, Part A: Journal of Power and Energy](#), Sage, 2013<sup>2</sup>
- [Proc. IMechE, Part G: Journal of Aerospace Engineering](#), Sage, 2008
- [Proc. IMechE, Part M: Journal of Engineering for the Maritime Environment](#), Sage, 2011
- [Renewable Energy](#), Elsevier, 2006, 2008, 2015, 2016, 2018
- [Renewable and Sustainable Energy Reviews](#), Elsevier, 2009, 2013, 2015
- [Sadhana – Academy Proceedings in Engineering Science](#), India, 2020, 2021
- [Thermal Science and Engineering Progress](#), Elsevier, 2020
- [Wind Engineering](#), Multi-science, 2006

## Selected Conference Proceedings

- [ASME 2022 Power Conference](#), Pittsburgh, USA, 2022
- [ASME 2021 Gas Turbine India Conference \(in virtual mode\)](#), 2021<sup>3</sup>
- [ASME 2021 International Mechanical Engineering Congress and Exposition \(in virtual mode\)](#), 2021<sup>2</sup>
- [ASME 2021 Power Conference \(in virtual mode\)](#), 2021
- [ASME 38<sup>th</sup> International Conference on Ocean, Offshore & Arctic Engineering](#), Glasgow, Scotland, 2019
- [ASME Gas Turbine India Conference](#), IIT Madras, Chennai, India, 2019<sup>2</sup>
- [ASME 37<sup>th</sup> International Conference on Ocean, Offshore & Arctic Engineering](#), Madrid, Spain, 2018
- [ASME Gas Turbine India Conference](#), Bangalore, India, 2017<sup>3</sup>
- [ASME 11<sup>th</sup> International Conference on Energy Sustainability](#), Charlotte, North Carolina, USA, 2017
- [ASME Turbo Expo](#), Charlotte, North Carolina, USA, 2017
- [ASME 35<sup>th</sup> International Conference on Ocean, Offshore & Arctic Engineering](#), Busan, South Korea, 2016
- [ASME Gas Turbine India Conference](#), Hyderabad, India, 2015<sup>3</sup>
- [ASME-ATI-UIT Conference on Thermal & Environmental Issues in Energy Systems](#), Napoli, Italy, 2015
- [ASME Gas Turbine India Conference](#), New Delhi, India, 2014<sup>2</sup>
- [ASME 12<sup>th</sup> Biennial Conference on Engineering Systems Design & Analysis](#), Copenhagen, Denmark, 2014<sup>2</sup>
- [ASME Turbo Expo](#), Dusseldorf, Germany, 2014
- [ASME Gas Turbine India Conference](#), Bangalore, India, 2013
- [ASME International Mechanical Engineering Congress and Exposition](#), San Diego, USA, 2013
- [ASME 11<sup>th</sup> Biennial Conference on Engineering Systems Design and Analysis](#), Nantes, France, 2012
- [ASME International Mechanical Engineering Congress & Exposition](#), Colorado, USA, 2011
- [ASME International Mechanical Engineering Congress & Exposition](#), Vancouver, Canada, 2010
- [7<sup>th</sup> International Conference on Flow Dynamics](#), Sendai, Japan, 2010
- [ASME-ATI-UIT Conference on Thermal & Environmental Issues in Energy Systems](#), Sorrento, Italy, 2010
- [ASME Internal Combustion Engine Division Fall Technical Conference](#), Texas, USA, 2010
- [2<sup>nd</sup> International Conference on Mechanical, Industrial & Manufacturing Technologies](#), Singapore, 2010
- [ASME 4<sup>th</sup> International Conference on Energy Sustainability](#), Arizona, USA, 2010
- [ASME 28<sup>th</sup> International Conference on Ocean, Offshore & Arctic Engineering](#), Hawaii, USA, 2009
- [ASME Internal Combustion Engine Division Spring Technical Conference](#), Wisconsin, USA, 2009
- [World Renewable Energy Congress IX and Exhibition](#), Florence, Italy, 2006
- [16<sup>th</sup> International Symposium on Air Breathing Engines](#), Ohio, USA, 2003
- [7<sup>th</sup> International Symposium on Fluid Control, Measurement & Visualization](#), Sorrento, Italy, 2003
- [19<sup>th</sup> Canadian Congress of Applied Mechanics](#), Calgary, Canada, 2003<sup>2</sup>
- [13<sup>th</sup> International Symposium on Air Breathing Engines](#), Tennessee, USA, 1997
- [ASME Turbo Asia](#), Jakarta, Indonesia, 1996
- [ASME Cogen Turbo Power](#), Vienna, Austria, 1995

## Research Projects

- **APGCL (Guwahati) Sponsored** – Feasibility Studies of Generating Electric Power using Helical Water Turbine – *with V Kulkarni, P Tripathy, and Others*, Budget = Rs.27.2 Lakh, 2012-2014.
- **CPRI (Bangalore) Sponsored** – Design of a 25 kWe Pressurized Circulating Fluidized Bed Unit – *with P Mahanta and P Kalita*, Budget = Rs.35.7 Lakh, 2011-2014.
- **DRDO (Tezpur) Sponsored** – Utilization of Bio-waste for Generating Power in Diesel Engines – *with N Sahoo*, Budget = Rs. 9.91 Lakh, 2011-2013.
- **ADnENERGY (London) Sponsored** – Development and Analysis of Twisted Two-bladed, Two-stage Savonius Rotor for Power Generation–*with N Sahoo, P Mahanta and D Bhagabati*, Budget = Rs. 8.83 Lakh, 2010-2012.
- **KVIC (Mumbai) Sponsored** – Setting up of Technical Backup Unit at IIT Guwahati for R & D Interface with Khadi and Village Industries Sector – *with P Mahanta, R M Puneekar, A K Das, A D Sahasrabudhe, S K Kakoty and Others*, Budget = Rs.26.7 Lakh, 2003-2008.
- **MNRE (New Delhi) Sponsored** – Design and Development of a High Performance Biogas Digester for the N-E Region of India – *with P Mahanta and A Dewan*, Budget = Rs. 18.9 Lakh, 2002-2005.
- **ARDB (New Delhi) Sponsored** – Computation of Two Dimensional Incompressible Viscous Flow through Cascade – *with M K Das*, Budget = Rs. 4.22 Lakh, 2002-2004.

## Consultancy / Course Projects

- **APDCL (Guwahati) Sponsored** – Supply of Technical Manuscripts for a Govt. of Assam Organization, Budget = Rs. 9.10 Lakh, 2017.
- **Ministry of Higher Education (Assam) Sponsored** – Technical Specifications of Two-wheeler Vehicle to the top 1000 Girl Students who Pass the Higher Secondary Examination in 2017 – *with V Kulkarni and B Mehta*, Budget = NIL, 2017.
- **BCPL Sponsored** – Setting of Confidential Papers for Engineering Non-Executives of a Govt. of India Enterprise, Budget = Rs. 5.40 Lakh, 2013.
- **NEEPCO Sponsored** – Setting of Confidential Manuscripts for Engineers and Officers of a Govt. of India Enterprise, Budget = Rs. 1.90 Lakh, 2013.
- **WWF Sponsored** – Design and Fabrication of a Pedal Operated Biomass Briquetting Machine – *with P Mahanta and D K Sarma*, Budget = Rs. 0.57 Lakh, 2012.
- **NERAMAC Sponsored** – Vetting of a Feasibility Report on Setting-up of Cold Storage Chain – *with S K Kakoty and D K Sarma*, Budget = Rs. 0.5 Lakh, 2011.
- **OIL-Duliajan Sponsored** – A Preliminary Project Report on Generation of Electrical Power from Small Quantities of Gas Available in Isolated Pockets of OIL India's Oil Fields – *with R Uppaluri, A K Ghosal and Others*, Budget = Rs. 4.08 Lakh, 2008.
- **GIAN-NE Sponsored** – Technical Assessment of the Wind Turbine-cum-Water Pump System Developed by M. Hussain – *with S K Dwivedy, P Mahanta and P Kalita*, Budget = Rs. 0.30 Lakh, 2007.
- **Dhriti Sponsored** – Development of an Energy Efficient Machine for Arecanaut Leaf Plate Manufacturing – *with P Mahanta and Others*, Budget = Rs. 2.5 Lakh, 2007.
- **Kirloskar Sponsored** – Performance Testing of 5 HP Diesel Engine Driven Centrifugal Pumpsets – *with P Mahanta and A K Dass*, Budget = Rs. 0.4 Lakh, 2003.

## Curriculum Development Projects

- **QIP Sponsored** – Introduction to Aerospace Engineering – 850 slides, 2011-12
- **QIP Sponsored** – Experimental Methods – 720 slides, 2007-08
- **QIP Sponsored** – Gas Turbine Theory – 650 slides, 2006-07
- **QIP Sponsored** – Internal Combustion Engines –966 slides, 2005-06
- **QIP Sponsored** – Jet Propulsion – 900 slides, 2004-05
- **IGNOU Sponsored** – Heat Power Technology – 5 chapters, 2004

## Short-term Courses Organized

*In association with other faculty members*

- *TEQIP III Sponsored* – Aerospace Technology: Theory and Practice, 2021
- *QIP Sponsored* – Aerospace Propulsion for Beginners, 2008
- *QIP Sponsored* – Industrial Applications of Turbomachines, 2007
- *QIP Sponsored* – Fuels & Combustion Technology, 2005
- *QIP Sponsored* – Energy Conservation Practices, 2004
- *MNRE Sponsored* – Renewable Energy Applications in NE Region, 2002
- *MNRE Sponsored* – Renewable Energy Systems, 2001

## Reviewer – Journals

### Partial List

- Physics of Fluids, [AIP](#), 2022
- Shock Waves, [Springer](#), 2022
- [AIAA Journal](#), 2021<sup>2</sup>
- [ASME Journal of Solar Energy Engineering](#), 2021
- [Journal of Cleaner Production](#), [Elsevier](#), 2021<sup>2</sup>
- [ASME Journal of Energy Resources Technology](#), 2021<sup>4</sup>, 2022<sup>3</sup>
- [Resources, Environment and Sustainability](#), [Elsevier](#), 2020
- [Wind Engineering](#), [Sage](#), 2020
- [Energy Sources, Part A](#), [Taylor and Francis](#), 2020
- [Engineering Science and Technology](#), [Elsevier](#), 2019
- [Proc. of IMechE, Part – C](#), [Journal of Mechanical Engineering Science](#), UK, [Sage](#), 2019
- [ASME Journal of Dynamic Systems, Measurement and Control](#), 2019<sup>2</sup>
- [Journal of Flow Visualization and Image Processing](#), [Begell House](#), 2019
- [International Journal of Green Energy](#), [Taylor and Francis](#), 2018
- [Fuel Processing Technology](#), [Elsevier](#), 2018
- [Sustainable Energy Technologies and Assessments](#), [Elsevier](#), 2018, 2019
- [Journal of Ocean Engineering & Science](#), [Elsevier](#), 2017
- [International Journal of Fluid Mechanics Research](#), [Begell House](#), 2017<sup>2</sup>, 2018
- [Case Studies in Thermal Engineering](#), [Elsevier](#), 2017<sup>2</sup>
- [Energy for Sustainable Development](#), [Elsevier](#), 2017
- [Energy & Fuels](#), [ACS Publications](#), 2016, 2018
- [Journal of Wind Engineering & Industrial Aerodynamics](#), [Elsevier](#), 2016<sup>5</sup>, 2017<sup>3</sup>
- [International Journal of Ambient Energy](#), [Taylor and Francis](#), 2015, 2017
- [International Journal of Aerospace Engineering](#), [Hindawi](#), 2015
- [Ecotoxicology and Environmental Safety](#), [Elsevier](#), 2015
- [Journal of the Energy Institute](#), [Elsevier](#), 2014, 2015
- [Renewable Energy](#), [Elsevier](#), 2014, 2018
- [Industrial and Engineering Chemistry Research](#), [ACS Publications](#), 2014
- [International Journal of Hydrogen Energy](#), [Elsevier](#), 2014
- [Journal of the Brazilian Society of Mechanical Sciences and Engineering](#), [Springer](#), 2013
- [Renewable and Sustainable Energy Reviews](#), [Elsevier](#), 2013<sup>3</sup>, 2014<sup>3</sup>, 2015, 2017
- [ASCE Journal of Energy Engineering, USA](#), 2013<sup>3</sup>, 2015, 2019
- [Energy Conversion and Management](#), [Elsevier](#), 2012, 2013, 2014<sup>4</sup>, 2018<sup>4</sup>
- [Alternative Energy](#), [Acta Press](#), Canada, 2012
- [ASME Journal of Turbomachinery, USA](#), 2011, 2014<sup>2</sup>
- [Applied Energy](#), [Elsevier](#), 2011<sup>2</sup>, 2014<sup>2</sup>
- [Energy](#), [Elsevier](#), 2010, 2011<sup>3</sup>, 2012<sup>2</sup>, 2013<sup>4</sup>, 2014<sup>4</sup>, 2015<sup>5</sup>, 2016<sup>4</sup>, 2018
- [Fuel](#), [Elsevier](#), 2009, 2010, 2011, 2015, 2018
- [Sadhana – Academy Proceedings in Engineering Science](#), India, 2009, 2013, 2015<sup>2</sup>, 2019
- [Journal of Fluids and Structures](#), [Elsevier](#), 2009
- [Ocean Engineering](#), [Elsevier](#), 2009<sup>2</sup>, 2010<sup>2</sup>, 2011<sup>2</sup>, 2013, 2016
- [Journal of the Institution of Engineer \(India\)](#), [Springer](#), 2008<sup>2</sup>, 2009, 2010<sup>2</sup>, 2011<sup>2</sup>, 2013<sup>2</sup>, 2014<sup>3</sup>, 2017<sup>2</sup>, 2019
- [Proc. of IMechE, Part – G](#), [Journal of Aerospace Engineering](#), UK, [Sage](#), 2008<sup>2</sup>, 2009
- [Experimental Thermal and Fluid Science](#), [Elsevier](#), 2007, 2008, 2011, 2012
- [International Journal of Energy Research](#), [John Wiley & Sons](#), 2007, 2009, 2016, 2018
- [International Energy Journal](#), [AIT Bangkok](#), Thailand, 2007, 2010, 2019
- [Proc. of IMechE, Part – A](#), [Journal of Power and Energy](#), UK, [Sage](#), 2007<sup>2</sup>, 2010<sup>2</sup>, 2011, 2016
- [Journal of Scientific & Industrial Research](#), [CSIR-NISCAIR](#), India, 2006, 2013<sup>2</sup>, 2015
- [Journal of Indian Institute of Science](#), Bangalore, India, 2004

## Reviewer – Conferences

### Partial List

- ASME Turbo Expo 2022, [Rotterdam](#), The Netherlands, [2022](#)
- 26<sup>th</sup> National and 4<sup>th</sup> Int. ISHMT-ASTFE Heat and Mass Transfer Conference, [IIT Madras](#), India, [2021](#)
- ASME International Mechanical Engineering Congress and Exposition, (in virtual mode), [2021](#)
- ASME Turbo Expo 2021 (in virtual mode), [2021](#)<sup>2</sup>
- 3<sup>rd</sup> National Aerospace Propulsion Conference, [BMS college of Engineering](#), [Bangaluru](#), India, [2020](#)
- ASME International Mechanical Engineering Congress and Exposition, [Portland, OR, USA](#), [2020](#)
- ASME Gas Turbine India Conference, [IIT Madras](#), [Chennai](#), [2019](#)<sup>2</sup>
- 2<sup>nd</sup> National Aerospace Propulsion Conference, [IIT Kharagpur](#), India, [2018](#)
- ASME International Mechanical Engineering Congress and Exposition, [Pittsburgh](#), USA, [2018](#)
- ASME Gas Turbine India Conference, [Bangalore](#), [2017](#)<sup>4</sup>
- 24<sup>th</sup> National and 2<sup>nd</sup> Int. ISHMT-ASTFE Heat and Mass Transfer Conference, [Hyderabad](#), India, [2017](#)
- 6<sup>th</sup> International and 43<sup>rd</sup> National Conference on FMFP, [MNNIT Allahabad](#), India, [2016](#)<sup>2</sup>
- ASME Turbo Expo 2016, [Seoul](#), South Korea, [2016](#)
- ASME Gas Turbine India Conference, [Hyderabad](#), India, [2015](#)
- 23<sup>rd</sup> National & 1<sup>st</sup> International ISHMT-ASTFE HMT Conference, [Thiruvananthapuram](#), [2015](#)
- 5<sup>th</sup> International and 41<sup>st</sup> National Conference on FMFP, [IIT Kanpur](#), India, [2014](#)
- ASME 12<sup>th</sup> Biennial Conference on Engrg. Systems Design & Analysis, [Copenhagen](#), Denmark, [2014](#)<sup>2</sup>
- 22<sup>nd</sup> National & 11<sup>th</sup> ISHMT-ASME Heat & Mass Transfer Conference, [IIT Kharagpur](#), [2013](#)<sup>2</sup>
- ASME Gas Turbine India Conference, [Bangalore](#), [2013](#)
- ASME International Mechanical Engineering Congress & Exposition, [San Diego](#), USA, [2013](#)<sup>4</sup>
- ASME Gas Turbine India Conference, [Mumbai](#), [2012](#)
- 5<sup>th</sup> BSME International Conference on Thermal Engineering, [Dhaka](#), [2012](#)<sup>2</sup>
- 11<sup>th</sup> Asian International Conference on Fluid Machinery, [IIT Madras](#), [2011](#)
- ASME-JSME-KSME Joint Fluids Engineering Conference, [Hamamatsu](#), Japan, [2011](#)
- 34<sup>th</sup> National Conference on Fluid Mechanics & Fluid Power, [BIT Mesra](#), [Ranchi](#), India, [2007](#)<sup>2</sup>

## Other Review Work

- Books/Manuscripts – [Wiley \(2015\)](#), [Springer \(2011, 2012\)](#), [McGraw Hill \(2010<sup>2</sup>\)](#), [Elsevier \(2009, 2019\)](#)
- Video Lectures – [NPTEL-II \(2011<sup>2</sup>\)](#), [CDEEP \(2010\)](#)
- Text Materials – [NPTEL-II \(2011, 2014\)](#)
- Awards – [INAE Young Engineer \(2014, 2015\)](#)
- R & D Projects – [MNRE \(2022\)](#), [PRISM \(2021\)](#), [CoPT-DRDO \(2018, 2020\)](#), [IUSSTF \(2017\)](#), [SERB-DST \(2015<sup>3</sup>, 2016\)](#), [NRDC \(2014\)](#)

## Department Level Responsibilities

### Partial List

- Secretary – [DPPC, 2012–2014](#)
- In-charge – [I C Engine Lab, 2012–2017](#)
- Secretary – [DUPC, 2011–2012](#)
- In-charge – [Fluid Mechanics Lab, 2010–2012](#)
- Member – [DUPC, 2009–2011](#)
- Member – [DPPC, 2003–2008](#)
- In-charge – [Turbomachinery Lab, 2003–2006](#)
- [MTP Co-ordinator, 2003–2004](#)
- Member – [Time Table Committee, 2002–2004](#)
- Member – [Institute Library Committee, 1998–2000 @ \*NERIST\*](#)

## Institute Level Responsibilities

### Partial List

- [Chairman](#) – Committee for Recommending Tender Documents of Outsourced IITG Hospital Service, [2020](#)
- [Member \(Senate Nominee\)](#) – Library Advisory Committee, [2019 – 2021](#)
- [Coordinator](#) – Examination Cell, Recruitment of Junior Assistants, [IIT Guwahati, 2018](#)
- [Member](#) – [IIT Guwahati Hospital Advisory Board, 2016](#)
- [Chairperson](#) – Committee for Overall Improvement of IIT Guwahati Hospital, [2015](#)
- [Member](#) – Institute Academic Disciplinary Committee, [2012–2014](#)
- [Convener](#) – Institute Comprehensive Medical Insurance Committee, [2012–2013](#)
- [Convener](#) – Convocation Food & Refreshment Sub-committee, [2012, 2013, 2014](#)
- [Organizing Chairman, DRDO SET– 2009](#)
- [Organizing Vice-Chairman, DRDO SET– 2007, 2008](#)
- [Chairman, IIT-JEE – 2006](#)
- [Vice-Chairman, IIT-JEE – 2004, 2005](#)
- [Vice Chairman, Gymkhana, 1998–1999 @ \*NERIST\*](#)

## Coordinating Other Responsibilities

- ISMU (Dhanbad) Entrance Examination – 2008
- Assam Judicial Service Examination (Guwahati) – 2008
- TISS (Mumbai) National Entrance Test – 2008, 2007
- TIFR (Mumbai) PhD Entrance Test – 2008, 2007
- KVPY (IISc Bangalore) Aptitude Test – 2007, 2006

## Conferences / Workshops Related Activities

### Partial List

- **Joint Org. Secretary** – 8<sup>th</sup> International and 47<sup>th</sup> National Conference on Fluid Mechanics and Fluid Power, IIT Guwahati (in virtual mode), July 09–11, 2020
- **Track Chair** – ASME Gas Turbine India Conference, IIT Madras, December 5–6, 2019
- **Coordinator** – 4<sup>th</sup> National Workshop on Research Methodology in Fluid Mechanics, IIT Guwahati, June 22–23, 2019
- **Track Chair** – ASME Gas Turbine India Conference, Bangalore, December 7–8, 2017
- **Member & Session Chair** – Asian Congress on Gas Turbines, IIT Bombay, December 12–14, 2016
- **Joint Organizing Secretary** – Int. Workshop on Aspects of Fluidized Bed Technology, IIT Guwahati, July 9–10, 2016
- **Treasurer** – India–UK Summer School on Efficient Fossil Fuel Technologies, IIT Guwahati, July 4–10, 2011
- **Member** – 2<sup>nd</sup> Int. Congress on Computational Mechanics and Simulation, IIT Guwahati, December 8–10, 2006
- **Joint Secretary** – 18<sup>th</sup> National & 7<sup>th</sup> ISHMT-ASME Heat and Mass Transfer Conference, IIT Guwahati, Jan 4–6, 2006
- **Member** – National Symposium on Rotor Dynamics, IIT Guwahati, December 15–17, 2003
- **Member** – 47<sup>th</sup> Congress of Indian Society of Theoretical and Applied Mechanics, IIT Guwahati, Dec 23–26, 2002

## Invited Talks / Lecture Series

### Partial List

- Aero-engine Axial Flow Compressors (in virtual mode), Siksha 'O' Anusandhan University, Bhubaneswar, 2021
- Small-scale Wind Turbines: Concepts and Applications (in virtual mode), Trinity College of Engineering, Pune, 2021
- Progress of Aeronautics during 20<sup>th</sup> Century and Beyond (in virtual mode), NIT Mizoram, Aizwal, 2021
- Lift and Drag (in virtual mode), Government Engineering College, Cooch Behar, WB, 2020
- Aviation Turbine Fuels (in virtual mode), NIT, Agartala, 2020
- Turbomachinery in Aerospace Vehicles (in virtual mode), National Institute of Engineering, Bangalore, 2020
- Aeronautics for Beginners (One-day Workshop), IIIT Bhagalpur, 2018
- Understanding Aerospace Engineering (One-day Lecture Series), Dibrugarh University, 2018
- Wind Tunnel Aerodynamics, Tezpur University, Tezpur, 2017
- Gas Turbine Propulsion Technology, Assam Engineering College, Guwahati, 2017
- Applied Fluid Mechanics, APDCL Training Institute, Guwahati, 2016
- Wright Brothers' Journey of Invention and the Aerial Age, NIT Silchar, 2015
- 100 Years of Aircraft Flight, National Education Day Lecture, IIT Guwahati, 2014
- History of Aircraft Flight, 16<sup>th</sup> H P Barua Memorial Lecture, IE (India), Guwahati, 2014
- Wind and Briquetting Machines for Rural Development, NERIST, Itanagar, 2014
- Energy from the Wind, Cotton College, Guwahati, 2003
- Wind Energy, Assam Engineering Institute, Guwahati, 2000

## Graduated PhD Students

- Prosenjit Mondal (2021), Senior Engineer, Microchip Technology (India) Pvt. Ltd., Bangaluru, India
- Maryom Dabi, (2020), Assistant Professor, NERIST, Itanagar, Arunachal Pradesh, India
- Nur Alom, (2019), Trainee Teacher, NIT Meghalaya, Shillong, Meghalaya, India
- Achinta Sarkar (2019), Assistant Professor, KIIT, Bhubaneswar, Odisha, India
- Parag K Talukdar (2019), Assistant Professor (TEQIP-III), Jorhat Engineering College, Jorhat, Assam, India
- Azd Zayoud (2016), Researcher, Université Catholique de Louvain, Belgium
- Bhaskor J Bora (2015), Assistant Professor, Energy Institute, RGIPT, Bangaluru, India
- Sukanta Roy, (2014), Associate Professor, Curtin University, Malaysia
- Biplab K Debnath, (2013), Assistant Professor, NIT Meghalaya, Shillong, Meghalaya, India
- Pankaj Kalita, (2013), Associate Professor, IIT Guwahati, Guwahati, India
- M Eswaran, (2011), Scientist E, IGCAR, Kalpakkam, Tamil Nadu, India
- Bhubuti B Sahoo, (2011), Associate Professor, VIT University, Vellore, Tamil Nadu, India.



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