

## REGISTRATION DETAILS

1. Name (Mr./Ms./Mrs.):
2. Designation:
3. Department:
4. Organization:
5. Date of Birth:
6. Years of Experience:
7. Highest Qualification with Specialization:
8. Areas of Interest:
9. Address for Communication:  
  
PIN:  
Mobile No.:                      Email:
9. Accommodation Required: Yes/No
10. Date, place and time of arrival (with Train/Flight No):
11. Date and time of departure from the Campus:
12. Special request if any:

### Note:

- Registration fee is non-refundable.
- Research Scholars and Faculty members from Academic Institutions should upload either (a) scanned images of both sides of their Institute identity card or (b) scanned image of certificate from their Director / Dean / Principal / HOD stating the designation of the participant.
- No TA/DA will be provided for attending the course.
- Organizers have all rights to cancel course under unavoidable circumstances, which will be communicated to all applicants by email.
- Accommodation will be provided on first-come first-served basis.
- Transport will be arranged from Karunagappally and Kayamkulam if feasible.

## Organizing Committee

- Patron : Br. Sudeep  
Director, Amritapuri Campus.
- Chairman : Prof. Balakrishnan Shankar,  
Associate Dean, Amritapuri Campus.
- Conveners : Prof. Atul Sharma, IIT Bombay  
Prof. Jayakumar J. S., Amrita University
- Coordinator : Prof. R. Ajith Kumar, Amrita University

## Registration

For registration, visit the webpage:  
[www.amrita.edu/fmfp2016/](http://www.amrita.edu/fmfp2016/)

Registration fee includes: Workshop kit, Lunch, Dinner and Refreshments during the days of workshop

## Important dates

Last date of receipt of application: **June 25, 2016**  
Intimation of acceptance by email: **July 1, 2016**  
Workshop : **July 14-16, 2016**

## Address for Correspondence

**Prof. R. Ajith Kumar**  
Coordinator RMFM 2016 & Professor,  
Department of Mechanical Engineering,  
Amrita University, Amritapuri Campus,  
Kollam, Kerala - 690525, INDIA.  
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## Third National Workshop

on

# Research Methodology in Fluid Mechanics

**July 14 – 16, 2016**

**Conveners:** Prof. Atul Sharma, IIT Bombay  
Prof. Jayakumar J. S., Amrita University

**Coordinator:** Prof. R. Ajith Kumar, Amrita University

[www.amrita.edu/fmfp2016/](http://www.amrita.edu/fmfp2016/)



*Jointly organized*

*by*

**Department of Mechanical Engineering**  
**Amrita University, Amritapuri Campus,**  
**Kollam, Kerala- 690525, India**

**&**

**National Society of Fluid Mechanics and Fluid Power**  
**IIT Bombay, Mumbai- 400076, India**

## The Workshop

The workshop is targeted at the young faculty members and research scholars who desire to join teaching in future. With the introduction of new undergraduate and postgraduate programs in mechanical, civil, chemical and aerospace in various engineering institutes in India, there is a need to train the faculty members who teach fluid mechanics and allied subjects so that they can adopt right approach while imparting teaching these subjects as well as enabling them to inculcate the research interest at the both UG and PG levels. The workshop offers a methodical approach to build an insight in research in fluid mechanics.

The National Society of Fluid Mechanics & Fluid Power (NSFMFP) in collaboration with Amrita University organize a three-day workshop on "Research Methodology in Fluid Mechanics" at Amrita University, Amritapuri Campus, Kerala.

## Course Contents

- Importance and excitement in Research.
- How to find a Research Problem, do a Literature Survey and read Research Papers.
- Computational Methods in Fluid and Thermal Sciences. Problem Formulation and Case Studies using CFD.
- Conducting Research using Simulation Tools.
- Design of Experiments & Measurement Techniques.
- Data Analysis, Regression, Signal Processing and Uncertainty.
- Case Studies in Experimental Fluid Mechanics & Heat Transfer.
- How to Prepare a Journal Manuscript. Ethical & Copyright Issues in Research.

## Resource Persons

**Dr. B.V.S.S.S. Prasad**, Professor & Head, Department of Mechanical Engineering, IIT Madras.

**Dr. Atul Sharma**, Professor, Department of Mechanical Engineering, IIT Bombay.

**Dr. S. V. Prabhu**, Professor, Department of Mechanical Engineering, IIT Bombay.

**Dr. R. I. Sujith**, Professor, Department of Aerospace Engineering, IIT Madras.

**Dr. Jyotirmay Banerjee**, Associate Professor, Department of Mechanical Engineering, SVNIT, Surat.

**Dr. V. M. Nandakumaran**, Principal, Amrita School of Arts & Science, Amrita University.

**Dr. J. S. Jayakumar**, Professor, Department of Mechanical Engineering, Amrita University.

**Dr. R. Ajith Kumar**, Professor, Department of Mechanical Engineering, Amrita University.

## National Society of Fluid Mechanics and Fluid Power (NSFMFP)

The National Society of Fluid Mechanics & Fluid Power (NSFMFP) was established in 1973 as a professional society to promote all activities in the field of Fluid Mechanics and Fluid Power in India. Under the aegis of the society, national conference on Fluid Mechanics & Fluid Power is organized every year since 1969 at different venues in India with participation from academia, R&D sectors and industries. The society has so far organized 42 such conferences along with five international conferences. The 6<sup>th</sup> International and 43<sup>rd</sup> National Conference is scheduled at MNNIT, Allahabad in December 2016. To expand its activities further, the society decided to disseminate and propagate knowledge in the fields of fluid mechanics in the country and to play a lead role in training the new teachers engaged in teaching of fluid mechanics and allied subjects.

## Amrita University

Amrita University is a multi-campus, multi-disciplinary research university, spread over five campuses in three states of India, viz., Kerala, Karnataka and Tamil Nadu, with the University headquarters at Coimbatore. The University continuously collaborates with the top US and European Universities for regular student exchange programs. It was indeed a modest beginning with just 120 students and 13 faculty members. In less than two decades, Amrita University has blossomed into a multi-disciplinary, multi-campus Centre that offers over 150 undergraduate, postgraduate and doctoral programs in Engineering, Business, Medicine, Dentistry, Pharmacy, Nursing, Journalism, Biotechnology, Information Technology, Arts and Sciences, Health Sciences, Education, Microbiology, Hospital Management, Visual Media Studies, Communication, Social Work, Nano sciences and Ayurveda. Satguru Sri Mata Amritanandamayi Devi (AMMA), one of the foremost humanitarian leaders in the world today, is the Chancellor of the University.

Amrita University was the youngest university to be awarded

with an 'A' grade by the National Assessment and Accreditation Council (NAAC), an autonomous body established in 1994 by the University Grants Commission (UGC) of India to assess and accredit institutions of higher education in the country.

Amrita University has emerged as the only private university from India to find a place in the prestigious Times Higher Education Ranking of Top 200 universities from the BRICS and Emerging Economies. Amrita has achieved a world-class distinction by securing 181 rank in the rankings released on December 3. There are only 16 Indian universities that have made it to top 200. Amrita University (NIRF-UNIV-29) is the 2<sup>nd</sup> best private University in India by as per the NIRF ranking of MHRD and the best campus in Kerala.

## Department of Mechanical Engineering

The Department of Mechanical Engineering at the Amritapuri campus was started in 2004. Besides offering undergraduate courses in Mechanical Engineering, the department presently offers two postgraduate programs in areas of Thermal & Fluids Engineering and Robotics & Automation. The department is also strongly involved in Ph.D. and research activities in the areas of Fluid Mechanics, Heat transfer, Nano Fabrication and Nano Precision Optics, various fields of Mechatronics such as Robotics, Automation and Computer Integrated Manufacturing.

## Amritapuri Campus

Nestled in the picturesque village of Vallikkavu, across the beautiful backwaters of Kerala, is Amrita University's Amritapuri campus, blending into the natural setting of the environment with its endless stretches of coconut palm groves. The Arabian Sea that borders Kerala on the west is only a few hundred meters from the campus. Located close to the international headquarters of the Mata Amritanandamayi Math, the campus provides a learning environment that harmoniously blends science and spirituality. Students have a unique opportunity to nurture values and self-discipline. Over 90% of the students reside in hostels on campus.

Although located in a village blessed with panoramic backwater expanses and tiny glistening brooks on the one side and the mighty sea on the other side, all modern amenities that go to make campus life memorable, are provided. There is a well-stocked library, cafeterias and sports facilities. A culture of enthusiastically celebrating festivals and other events makes life on campus stimulating.