

**Patron :**

**Shri N. Vinaya Hegde**, President, NET, Mangalore

**Chairman :**

**Dr. Niranjan N. Chiplunkar**

Principal, NMAMIT, Nitte

**Organizing Chairman:**

**Dr. Shashikantha Karinka**,

Professor & Head, Dept. of Mech. Engg., NMAMIT, Nitte

**Advisors:**

Shri Yogesh Hegde, Registrar

Dr. Ramesh R. Mithanthaya, Vice Principal & Dean

Dr. Srinivasa Rao B. R., Vice Principal & COE

Dr. Krishna Shenai, Prof & Director (R&D)

Dr. A. N. Parameswaran, Prof & Director, IIC.

Dr. Sudesh Bekal, Professor & Dean R & D

Dr. Subrahmanya Bhat, Professor & Dean (Student Welfare)

Dr. Srinivas Pai P., Professor & DCOE

Dr. Muralidhara, Professor & PG Coordinator

Dr. Shrinath Shetty, Resident Engineer

Dr. Mallikappa D. N., Professor

Dr. Narasimha Marakala, Professor

Dr. Narasimha Bailkeri, Professor

Prof. Vinaya B. R., First Year Coordinator

**Coordinators :**

Mr. Nithin Kumar Shetty

Mr. Dilip Kumar K.

Mr. Veerasha R. K.

Mr. Vincent D'souza

Mr. Rajath N. Rao

Mr. Ravikiran Kamath B.

**Organizing Committee:**

Mr. Ananthakrishna Somayaji

Mr. Ajith Hebbale

Mr. Bhaskar Achar P.

Mr. Gururaj Upadhyaya

Mr. Grynal D'Mello

Mr. Gautam Hebbbar

Mr. H. S. Kumar

Mr. Melwyn R. Castelino

Mr. Manjunath Maiya

Mr. Mohan N. Poojari

Mrs. Rashmi P. Shetty

Mr. Ravishankar Bhat

Mr. Srinivas Prabhu

Mr. Sharathchandra H. S.

Mr. Santhosh G.

Mr. P. Venkatesh Murthy

Mr. Vishwananth J. S.

Mr. Vishwash B.

**Participants:**

Faculty from engineering colleges, PG students and Ph.D. Research Scholars who are planning to pursue research in Mechanical Design area. Maximum number of participants is restricted to 100. Selection is on First-cum-First Serve basis.

**Resource Persons:**

**Dr. H. S. N Murthy**, Professor, IIT, Madras

**Dr. S. N. Shridhara**, Professor & Principal, KSSEM, Bangalore

**Dr. Shashidhar K. Kudari**, Professor, CVRCE, Hyderabad

**Dr. T. Jayraju**, Professor & Head, NIEIT, Mysore

**Dr. H. K. Rangavittal**, Professor, BMSCE, Bangalore

**Dr. H. K. Govindaraju**, Professor & Head, BMSITM, Bangalore

**Dr. Srinivas Pai P.**, Professor & DCOE, NMAMIT, Nitte

**Mr. Madeva Nagaral**, Design Engineer, HAL, Bangalore

**Mr. Mohan Kola**, Tech Lead, Cyient Ltd., Bangalore

**Mr. Shashidhar**, Tech Lead, UTC Aerospace, Bangalore

**Registration :**

The interested participants are requested to send the attached registration form along with DD of Rs. 1000/- for faculty and research scholars and Rs. 2500/- for Industry Participants to the Coordinator. The DD should be drawn in favour of "The Principal, NMAMIT, Nitte", Payable at Syndicate Bank, Nitte.

**Accommodation**

Limited accommodation (free) is available in PG hostel (twin sharing) on a first-cum first serve basis.

**Important dates**

Last Date of Receipt of Application : **January 2, 2017**

Intimation about Selection : **January 7, 2017**

(Only through e-mail)

Last Date for confirmation by participant : **January 9, 2017**

**CONTACT FOR INFORMATION**

**Please address all communications to the coordinators.**

**Mr. Nithin Kumar Shetty**

Assistant Professor, Dept of Mechanical Engg.

NMAM Institute of Technology, Nitte-574110

Karkala taluk, Udipi dist, Karnataka. India

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OR

**Mr. Veeresh R. K.**

Assistant Professor, Dept of Mechanical Engg.

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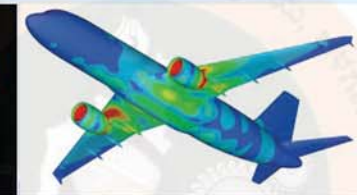
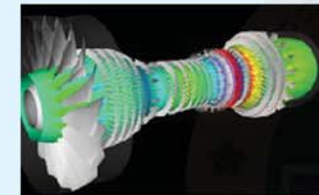
**THREE DAYS  
FACULTY DEVELOPMENT PROGRAMME**

On

**THEORETICAL AND  
COMPUTATIONAL MECHANICS**

**JANUARY 19 - 21, 2017**

(TEQIP-II Funded)



**Coordinators**

**Mr. Nithin Kumar Shetty**

**Mr. Dilip Kumar K**

**Mr. Veerasha R. K.**

**Mr. Vincent Dsouza**

**Mr. Rajath N Rao**

**Mr. Ravikiran Kamath B.**

**Organized by**

**Department of Mechanical Engineering**

**NMAM INSTITUTE OF TECHNOLOGY**

**NITTE -574 110,**

**Udipi District KARNATAKA.**

## About the Institute

NMAM Institute of Technology was established in 1986. The college is affiliated to the Visvesvaraya Technological University, Belgaum and is recognised by the All India Council for technical Education, New Delhi. Institute is accredited by National Assessment & Accreditation Council [NAAC] & all the programs are accredited by National Board for Accreditation [NBA]. Institute is certified to the ISO 9001-2008 standards for quality education by NVT Quality Certifications (ANAB accredited). The institution has been granted Academic Autonomy under the Visvesvaraya Technological University from 2007-08.

The Institute offers graduate programs in 7 branches of Engineering - Electronics & Communication Engineering, Computer Science & Engineering, Civil Engineering, Electrical & Electronics Engineering, Information Science & Engineering, Bio-Technology and Mechanical Engineering. The college also offers postgraduate programs like, Master of Technology, Master of Computer Applications and Master of Business Administration. Besides these, students can also pursue their doctoral programs at the Institute.

## About the Department

The Department of Mechanical Engg., started in 1986 with an intake of 60. Today the department has an intake of 180 with faculty strength of 46. The Department offers a UG programme in B.E in Mech Engg. and 2 PG programmes - M.Tech in Energy Systems Engg. and Machine Design with an intake of 18 students. The Department is also a recognized research centre under VTU, with 8 guides and more than 15 PhD students both internal and external. The department has developed Center for Alternative Fuels Research, Center for System Design, Fabrication and Testing, Center for Tool based Micromachining Research, Center for Condition Monitoring and Advanced Machining Research. The department has excellent infrastructural facilities in terms of class rooms and laboratories. The faculty members are engaged in research activities with sponsored research projects worth more than Rs.90 lakhs being executed. The department has excellent research output in terms of publications in refereed International Journals and prestigious national and international conferences, with a total number of 75 publications in the last 3 years. The students of the department have been placed in leading

companies. Many faculty have won several awards and sponsorships for attending and conducting seminars and conferences.

## Preamble

Computational mechanics (CM) is interdisciplinary. Its three pillars are mathematics, computer science, and mechanics. Computational fluid dynamics, computational thermodynamics, computational electromagnetic, computational solid mechanics are some of the many specializations within CM. Computational mechanics is the discipline concerned with the use of computational methods to study phenomena governed by the principles of mechanics.

This course is aimed at academicians and industry personnel to promote the research in the field of computational and applied mechanics. Due to the vast amount of scope available to explore in newer dimensions of interdisciplinary research, the academicians will be equipped to specify computational techniques for student projects. It also provides an opportunity to collaborate with industries.

## Objective:

- (i) To bridge knowledge gap between theory and practice.
- (ii) To bridge gap between industry and institutes.
- (iii) Helping in creating manpower catering to the requirements of computational mechanics in industries.

## Topics to be covered

*It is proposed to cover the following topics*

- ❖ Basics of solid mechanics and its computational techniques.
- ❖ Basics of FEM and BEM.
- ❖ Basics and Application of CFD.
- ❖ Basics of Fracture Mechanics.
- ❖ Nonlinear Fracture Mechanics.
- ❖ Applications of vibration signal analysis using ANN.
- ❖ Research opportunities in fracture Mechanics.
- ❖ Design, Selection of Materials and Testing in an Aerospace Domain.
- ❖ Dynamic and Thermal Analysis (Hands on).
- ❖ Static and Fatigue Analysis (Hands on).



**NITTE**

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**REGISTRATION FORM**

Name : .....

Designation : .....

Highest Qualification : .....

Affiliation : .....

Department : .....

Telephone No : .....

Email : .....

Accommodation required or not : .....

DD Details: .....

## DECLARATION BY THE PARTICIPANT

The information furnished above is true to the best of my knowledge. If selected, I shall attend the programme for the entire duration. I also undertake the responsibility to inform the coordinator sufficiently in advance, in case I am unable to attend the programme.

Date :

Place :

Signature : .....

Endorsement by the Head of the Institution