



Marathwada Institute of Technology, Aurangabad

One Day Workshop On



Friday,
11th November, 2016

Conducted by
SVR InfoTech

Organized by
Department of
Mechanical Engineering,
Marathwada Institute of Technology,
Aurangabad



Marathwada Institute of Technology, Aurangabad

MIT is a group of educational and research Institutions run by Gramaudyogik Shikshan Mandal (GSM), Aurangabad, Maharashtra, India which is the parent trust (Organization) established in 1975. Over the last three and half decades, MIT has established 19 Institutes and 5 centres of learning at multiple locations in India. MIT has grown organically in three important provinces of India, viz. Maharashtra, Delhi & Uttar Pradesh. More than 12000 full time & 2500 part time students are on different campuses for primary to post graduate education and vocational training. MIT offers wide range of courses for graduation level in faculty of - Engineering & Technology, Management, Architecture, Science and Nursing. Post-Graduation programs are offered in Engineering & Technology, Management, Information Technology, and Architecture. MIT also offers vocational level programs like Polytechnic, Industrial skill set and Technical school level programs.



Department of Mechanical Engineering

The Department is offering BE in Mechanical Engineering and presently 800+ students are pursuing the degree. The three PG (Master of Engineering) courses offered in Mechanical Engineering are specialized with Manufacturing, Heat Power, and Automation. The Department has recognized as a Ph.D. Research Center by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, considering its research activities in the field of Mechanical Engineering and Technology. Department has developed strong linkages between Industries, Government & Non-Government Organizations. By serving as a catalyst for Industry-Academic partnerships, Department attempts to bring intellectual capital and emerging technologies together to improve quality of Engineering & Technology education.

About The FEAST^{SMT}

FEAST^{SMT} is ISRO's structural analysis software based on Finite Element Method (FEM) realized by Structural Engineering Entity of **Vikram Sarabhai Space Centre (VSSC)**. The software is developed in C++ Programming Language based on Object Oriented (OO) principles.

The technology comprises of PreWin as Pre and Post Processor, with its own solver FEAST^{SMT}. With advanced solution algorithms the solver is able to handle large order problems of structural engineering.

This indigenous software developed by Indian Government Organization VSSC is one of good challenges for American software developer companies in CAE community. Major Colleges & corporates have adopted this technology for their FEA need.

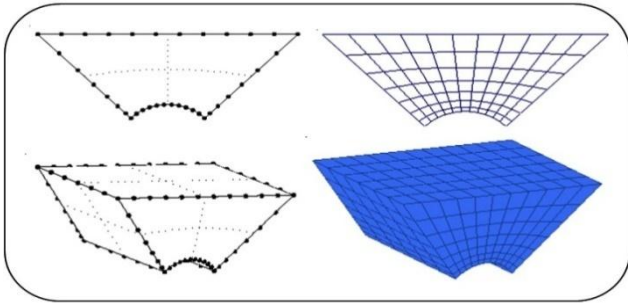
FEAST^{SMT} Features:

- Linear Static
- Thermo Elasticity
- Visco-elasticity
- Base excitation
- Transient response
- Frequency response
- Fluid-structure Interaction
- Free Vibration Buckling, etc.

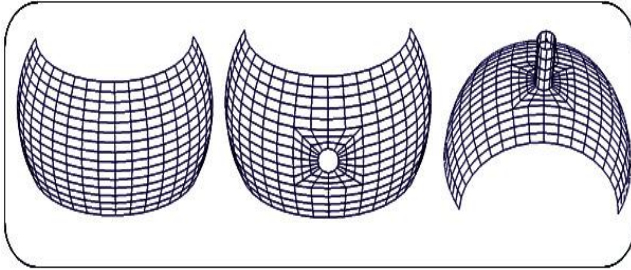
Mesh Generation:

Supports mapped and automatic meshing techniques

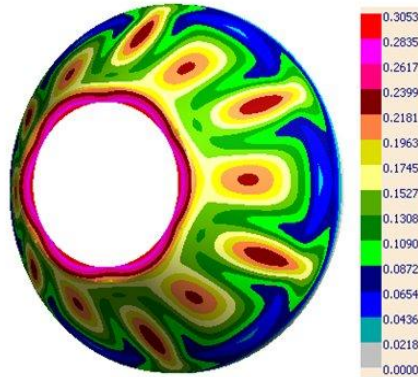
- Bar2, Bar3
- Quad4, Quad8, Quad9
- Tria3, Tria6
- Hexa8, Hexa20, Hexa27
- Tetra
- All QUAD auto mesh



Initial FE mesh is generated on the geometry model and further manipulated through the transformations and commands.



Post Processing



Multiple ways of visualizing the analysis results

- Deformed Geometry
- Animation
- Vector plot
- Contours
- X-Y plot
- Tabulated display

Schedule of workshop sessions

Details	Presenters
1st Half: <ul style="list-style-type: none"> • Introduction of FEAST for CAE Community & its usage. • Need of Collaboration with Colleges • Bridging the gap between ISRO, Industry & Education. 	VSSC ISRO's FEAST^{SMT} Team
2nd Half: <ul style="list-style-type: none"> • Hands on Practice on FEAST along with theory. • Examples on solving numerical Problem & industry problems. 	

Patron

Prof. Munish Sharma
Director General, MIT Aurangabad

Chairman

Dr. Nilesh G. Patil
Principal

Vice Chairmen

Dr. H. M. Dharmadhikari
VP (Admin.)

Dr. D. V. Nehete
VP (Acad.)

Convener

Dr. Subhash V. Lahane
Head
Department of Mechanical Engineering

Organizing Secretary

Mr. Pankaj U. Zine

Organizing Committee

Ms. P. Priadarshni
Mr. P. J. Kale
Mr. M. A. Patil
Mr. N. V. Kalyankar

Mr. A. P. Patil
Mr. S. L. Muley
Mr. N. R. Chavda
Mr. N. A. Shaikh

Workshop Registration Form

Name: _____

Designation: _____

Name of the Institution/ Industry: _____

E-mail: _____

Mobile: _____

Signature of
the participant

Sponsoring Authority
(Signature and Stamp)

Date: 11th November, 2016

Time: 10.00 am to 05.00 pm

**Venue: Department of Mechanical Engineering,
Seminar Hall No. 105**

Marathwada Institute of Technology, Aurangabad

Please Note:

1. **No Registration fees**
2. **Participation Certificate will be provided**
3. **In time Registration is kindly requested**

Contact for registration and other details:

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Mr. S. Kumbhar 8485897928
Mr. Aniket Bhelsaikar 8796140143
Dr. Subhash V. Lahane 8149633284

Registration by mail before 10/11/2016

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