



RAJARAJESWARI COLLEGE OF ENGINEERING

(Under the auspices of the Moogambigai Charitable and Educational Trust)

(Affiliated to the Visvesvaraya Technological University, Belgaum)

(Recognized by the AICTE, New Delhi)

#14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru-560074.

Phone: +91-80-28437124, +91-28437375, Fax: +91-80-2843 7373, www.rrce.org



DEPARTMENT OF MECHANICAL ENGINEERING

Date: 05/05/2017

Circular

It is hereby informed to all the staff members that the department is organizing 03 days SDP on the topic **“COMPUTER AIDED MODELLING AND ANALYSIS”** from **15th to 17th May 2017**. All are requested to attend the SDP and make better utilization of the recourse person and opportunity.

Coordinators

HoD - ME



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DEPARTMENT OF MECHANICAL ENGINEERING

3 Days Staff Development Program on

“COMPUTER AIDED MODELLING AND ANALYSIS”

15th to 17th May 2017

| Sl. No. | Topic | Resource Person | Date & Time |
|---------|--|--|--|
| | Inauguration and Welcome 9:00 to 10:15 AM | | |
| 1 | Introduction | Prof.Radhakrishna Asst. Professor -ME, RRCE | 15th May 2017 10:30 to 12:30 |
| 2 | Modeling and Stress analysis | | 15 th May 2017 2:00 to 3:30 |
| 3 | Trusses, Beams & Hands on session | | 16 th May 2017 9:30 to 11:30 |
| 4 | Thermal Analysis & Hands on session | | 16 th May 2017 1:00 to 4:00 |
| 5 | Thermal Analysis 2D & Hands on session | | 17 th may 2017 9:30 to 12:00 |
| 6 | Dynamic Analysis & Hands on session | | 17 th May 2017 1:30 to 3:00 |
| | Valedictory and feedback session 3:00 to 3:30 | | |



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Program Report

On day 1 Prof. Radhakrishna highlighted new technologies that To acquire basic understanding of Modeling and Analysis software To understand the concepts of different kinds of loading on bars, trusses and beams, and analyze the results pertaining to various parameters like stresses and deformations.

On day 2 To lean to apply the basic principles to carry out dynamic analysis to know the natural frequencies of different kind of beams. Study of a FEA package and modeling and stress analysis of a Bars of constant cross section area, tapered cross section area and stepped bar

On day 3 Thermal Analysis – 1D & 2D problem with conduction and convection boundary conditions Dynamic Analysis to find a) Natural frequency of beam with fixed – fixed end condition

b) Response of beam with fixed – fixed end conditions subjected to forcing function c) Response of Bar subjected to forcing functions

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