

AICTE-ISTE Refresher/Induction Program
on
FEA for Solving Real Time Problems
(27 Dec, 2021 to 01 Jan, 2022)

Registration Form

Name :
Designation :
Name of the Organization/
Institution:
Qualification :
Specialization :
Experience :
Address for Communication :
Mobile No. :
E-mail ID :

Place :
Date : Signature of the Candidate

Sponsorship Certificate :

Mr./Ms.....
..... is an employee / PG or PhD student of our Institute. If selected, the applicant will be permitted to participate in the above programme.

Date : Signature & Seal of the Director/ Principal/HOD

- Xerox copies of registration form can be used if necessary.
- Scan copy of filled form can be sent to the Coordinator mail.
- Alternately use the following Link for Registration:
<https://forms.gle/7FtzejK28gEogpiz5>

Important Dates :

Last date for receipt of filled in applications : 18.12.2021

Date of intimation regarding selection : 21.12.2021

Note :

- No Registration Fee
- 100% attendance is compulsory.
- Registration form can be downloaded from the Institute website.
- Alternately use the link for online registration.
- The certificates shall be issued to the registered participants having minimum of 80% attendance and minimum of 60% marks in the tests.

Address for correspondence :

Dr. M. Sreenivasulu

Coordinator

Professor, Department of Mechanical Engineering,
N.B.K.R. Institute of Science and Technology,
Vidyanagar, S.P.S.R. Nellore Dist. – 524 413
Andhra Pradesh.

Phone: 9440740444

mslu544@nbkrist.org



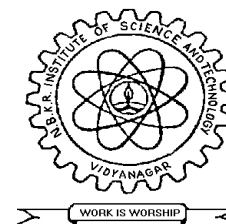
AICTE-ISTE Refresher/Induction Program
on
FEA for Solving Real Time Problems

(Online mode)
(27 Dec, 2021 to 01 Jan, 2022)

in Association with



Organized by



Department of Mechanical Engineering

N.B.K.R. INSTITUTE OF SCIENCE & TECHNOLOGY (AUTONOMOUS)

College with Potential For Excellence (CPE)
Affiliated to JNTUA, Ananthapuramu
Accredited by NAAC with 'A' Grade
B.Tech. (ME, ECE, EEE, CSE, CE) Courses Accredited by
NBA under TIER-I
VIDYANAGAR - 524413, SPSR Nellore - Dist. (A.P)
ist@nbkrist.org; www.nbkrist.org; 08624 – 228247, 547

Organizing Committee :

Chief Patron	:	Sri. N. Ram Kumar <i>Correspondent</i>
Patron	:	Dr. V. Vijaya Kumar Reddy <i>Director</i>
Co-patron	:	Dr. CH R. Vikram Kumar <i>Head, Mechanical Engg. Dept.</i>
Coordinator	:	Dr. M. Sreenivasulu <i>Prof, Mechanical Engg. Dept.</i>
Co-Coordinator	:	Dr. P. Srihari Reddy <i>Prof, Mechanical Engg. Dept.</i>

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Sri. A. Karthikeyan
Sri. G. Manohar
Sri. R. Manohar
Sri. M. Mallikarjuna
Sri. MVNV Satyanarayana

About the College :

N.B.K.R. Institute of Science & Technology has earned a reputation as an Institution of Excellence in Andhra Pradesh. Since its inception, utmost importance has been given to discipline and quality education. The Institute awarded with college with potential for excellence (CPE) by University Grants Commission (UGC), New Delhi. The Institution is approved by AICTE and UG courses have been accredited five times by National Board of Accreditation (NBA) under Tier-I. The Institution has got autonomous status from the academic year 2013-2014. Also the Institute has been re-accredited by NAAC (UGC) with 'A' Grade for the third time.

The Institute offers B.Tech. Courses in, Electronics & Communication Engg., Mechanical Engg., Computer Science & Engg., with 180 intake, Civil Engg., Electrical & Electronics Engg., and Artificial Intelligence and Data Science with 120 intake and Information Technology with 60 intake, and M. Tech. Courses in Power Systems, Computer Science & Engineering, Digital Electronics & Communication Systems and Advanced Manufacturing Systems. The Institute has SAE, IE, IEEE, IETE, ISTE, CSI chapters and IIC & ED cells.

About the Department:

The department of Mechanical Engineering was established in 1979 and meets the growing demands of Mechanical Engineers. The Department has well qualified and experienced faculty. The Department has established with research facilities apart from regular curriculum laboratories.

- Dassault Systemes Centre of Excellence
- AP CM Skill Excellence Centre - Design, Automation, and Simulation
- AVEVA centre of excellence
- Robotics Research & Training Centre
- Virtual Instrumental Laboratory
- Composite Materials Research laboratory
- Computerized Bio-Diesel Testing laboratory
- Python Programming Laboratory
- Micromachining.
- 3D printing facility
- JNTUA Research Center



About the Refresher Program :

Engineering problems are too complex in nature and getting solutions for them is very difficult, unless otherwise some systematic approach is used it is not easy to find reliable and sustainable solutions. An extensive training and insight on this approach is essentially needed in finding the right solution. It has been proved that the finite element method is used extensively to get reliable solutions for the real time applications in Industry and Research. In this approach a physical phenomenon of a real time problem can easily be transformed in to mathematical model, solution is found with the support of real time boundary conditions. Typical problem areas of interest include the traditional fields such as; structural, heat transfer, fluid flow, mass transport, and electromagnetic potential etc.

Objective of the Program:

The main objective of this program is to imparting conceptual and systematic approach to the real time problems, by providing sufficient insight into the relationship between the physical data such as loads, boundary conditions, domain, etc., and the finite element approach through Academic and Industry experts.

Contents :

The broad outline of the program is as follows

- Overview of FEA for Real Time Problems

Case Studies on:

- Static and Model Analysis
- Dynamic Analysis
- Composite Materials
- Aerospace Applications
- Naval Applications
- Thermal Applications.

Guest of Honour:

Dr. K. Hemachandra Reddy Chairman, APSCHE, AP

Resource Persons:

<i>Dr. K. Ramji</i>	<i>Professor, Andhra University, Visakhapatnam. Former VC, Ambedkar University, Srikakulam.</i>
<i>Sri. Hemant Gagdil</i>	<i>Executive Director, Dassault Systemes, Pune.</i>
<i>Dr. M. Ramji</i>	<i>Professor & Head, IIT Hyderabad.</i>
<i>Sri. M. Shankaraiah</i>	<i>Technology Director, General Systems, ADA, Bengaluru</i>
<i>Sri. T. C. Subba Reddy</i>	<i>Gp Director (Composites) ADA, Bengaluru</i>
<i>Sri. Ravi Sankar</i>	<i>Lead Technical Specialist, ANSYS India, Chennai.</i>
<i>Dr. P. Raveendra Reddy</i>	<i>Principal, CBIT, Hyderabad.</i>
<i>Dr. K. V. Ramana Murthy</i>	<i>Sc 'E', ADA, Bengaluru</i>
<i>Dr. AVS Gupta</i>	<i>Professor & Head, JNTUH, Hyderabad.</i>
<i>Dr. Suryakanth Nagdewe</i>	<i>Dassault Systemes, Pune.</i>
<i>Sri. Sainath Nunna</i>	<i>CAE analyst, Nobel Automotive India, Hyderabad.</i>
<i>Dr. I. S. Chakrapani</i>	<i>PRR & VS Govt. College, Vidavalur</i>
<i>Dr. Ramana Podugu</i>	<i>Manager, Gas Turbine Design, Siemens</i>