

ABOUT THE COLLEGE

Saranathan College of Engineering was founded in the year 1998 by "VidyaSevaRatnam", "Guru Seva Mani" Auditor Sri. K. Santhanam. The institution was so named in respectful memory of his Guru Prof. Saranathan, the then Principal of National College, Tiruchirappalli. Saranathan College of Engineering is a self-financing college approved by AICTE and affiliated to Anna University, Chennai for the UG courses it offers(Civil, CSE, EEE, ECE, IT, ICE and Mechanical Engineering). All the six (6) eligible UG branches are accredited by NBA, New Delhi. An enviable 'A+' rating by "NAAC" stands testimony to the commitment of the college to impart quality education.

ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was started in the year 2005. The department offers an undergraduate programme B.E. in Mechanical Engineering and a postgraduate programme M.E. in Thermal Engineering. The department is accredited by NBA, New Delhi, since June 2018. The department is also a recognized research centre under Anna University, Chennai. The department has all of the following: state-of-the-art laboratories, CAD centre with advanced software, a department library, experienced and expert faculty members having doctoral degrees, outstanding research publications in peer reviewed International/National journals. The department's mission is to generate employable mechanical engineering graduates with knowledge, skills and ethics and provide them with the professional and soft skills necessary to lead a successful career and equip them with the confidence necessary to contribute positively to the society by performing in their respective chosen fields of endeavour.

PROGRAMME EVALUATION COMMITTEE (PEC)

PATRON:

Shri. S. Ravindran
Secretary

CHAIRPERSON:

Dr. D. Valavan
Principal

CO-CHAIRPERSON:

Dr. G. Jayaprakash
Professor & Head, Mechanical Engineering.

COORDINATOR:

Dr. N. Baskar
Professor, Mechanical Engineering

PEC MEMBER

Dr. C. Krishnakumar
Professor & Head, Department of Electrical and Electronics Engineering.

CO-COORDINATORS:

Dr. A. Mercy Vasan
Associate Professor, Mechanical Engineering
Dr. R. Rekha
Associate Professor, Mechanical Engineering

CONVENERS:

Dr. M. R. Anantha Padmanaban
Associate Professor, Mechanical Engineering
Dr. M. Ganesan
Associate Professor, Mechanical Engineering

ORGANIZERS:

Dr. G. Mahesh
Associate Professor, Mechanical Engineering
Mr. R. Suresh Babu
Assistant Professor, Mechanical Engineering
Mr. S. Sathyanarayanan
Assistant Professor, Mechanical Engineering

AICTE



Sponsored

*One-week Short Term Training Program
on*

***Rudiments and practices of
Computational Fluid Dynamics
in Thermo-fluid Analysis***

*Phase I - 10.05.2021-15.05.2021
Phase II – 24.05.2021-29.05.2021*



Organized by

Department of Mechanical Engineering
Accredited by NBA, New Delhi

**SARANATHAN COLLEGE OF
ENGINEERING**

*(Approved by AICTE, New Delhi and
Affiliated to Anna University, Chennai)
(Accredited by NAAC with A+ Grade)*

www.saranathan.ac.in

OBJECTIVES AND CONTEXT

- To provide a comprehensive training to engineers and researchers on application of CFD techniques over a broad range of applications like turbomachinery and multi-phase flows
- To familiarize the basic concepts, methods and mathematical equations controlling practical thermal and fluid flow phenomena
- To correlate theoretical and practical engineering usages of CFD through hands-on –training on various software packages
- To highlight the contemporary research trends in CFD and promote progressive research in product design and development

RELEVANCE

The short-term training programme is essential in the current scenario to facilitate researchers and engineers to adopt CFD as a standard practice in industry and research. With simulation techniques becoming a vital part of the design process in providing within the time constraints efficient solutions to thermal and fluid system, CFD has started playing a crucial role in product development cycle. The major obstacle, to the evolving of CFD from the stage of being a mere research tool to the stage of being used for real time applications in industries, is the lack of fundamental knowledge and high level of expertise in coding and software usage. This program aims to bridge that gap.

RESOURCE PERSONS

Experts from IITs, NITs, Anna University, DRDO, IGCAR, Industry, etc.

EXPECTED OUTCOMES

This program will enable the faculty, practising engineers and researchers

- ✓ To solve fundamental equations relating to fluid flow and heat transfer problems
- ✓ To acquire software computing skills in CFD and interpret results to make design decisions
- ✓ To forecast implications of design changes and optimize a design, based on CFD results, with an aim to create quality product development and to carry out virtual experimentation on complicated prototypes

TOPICS OF INTEREST

- Fundamental knowledge in theory and concepts of Computational Fluid Dynamics
- Hands on training on modern CFD software tools for solving Thermo-fluid problems
- Industrial visits to understand the significance of CFD applications in solving real time industrial flow problems

EXPECTED SKILLS AND SUGGESTED FURTHER ACTIONS

- Fundamental knowledge in theory and concepts of Computational Fluid Dynamics
- Industrial visits to understand the significance of CFD applications in solving real time industrial flow problems

COURSE DURATION

Each STTP is for a duration of 6 days and will be held online through Google meet. For an effective utilization of the program and to become eligible for the e-certificate attendance on all the days is important. Based on their convenience participants can choose to attend any one of the phases of STTP listed.

REGISTRATION

Registration is based on first come first served basis. Google Meet link will be provided by E-Mail, to the selected participants only.

NO REGISTRATION FEE.

Registration Link :

<https://forms.gle/NFq498upV8vgsxVTA>



CONDUCT OF TEST AND ISSUANCE OF CERTIFICATE

All the participants have to appear for a test at end of the program. E-Certificates will be issued only to those participants who have attended the program on all the days and have qualified in the evaluation test.

IMPORTANT DATES

Last date of Receipt Application: 04-05-2021
(Google form)

Intimation to Selected Participants: 05-05-2021
(Mail)

ADDRESS FOR CORRESPONDENCE

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