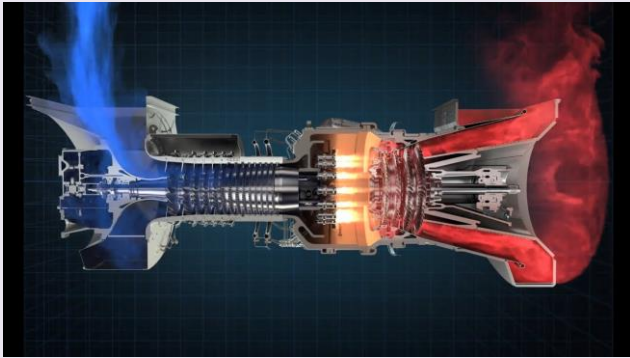


ONE WEEK WORKSHOP ON

**DESIGN AND ANALYSIS OF
THERMAL SYSTEMS USING
AxSTREAM
(April 12th – 16th, 2021)**



Organized By



Department of Mechanical Engineering
S. V. National Institute of Technology
SURAT - 395 007 (Gujarat) India
Website: www.svnit.ac.in

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ABOUT SVNIT

The institute was initially established as Sardar Vallabhbhai Regional College of Engineering & Technology in 1961 and was upgraded as a National Institute of Technology on 4th October, 2002. SVNIT is one of the pioneering engineering institutions of the country which has contributed many outstanding engineers in India & abroad. It is conducting six UG programs, seventeen PG programs, three integrated M.Sc. programs and Ph.D. program in all disciplines of engineering and applied sciences. Special attention is given to interdisciplinary research. The institute has an excellent placement record with a number of top ranking companies visiting the campus every year.

ABOUT DEPARTMENT

The department of Mechanical Engineering offers Under Graduate course in Mechanical Engineering and Post Graduate programs in, Turbomachines, CAD-CAM, Mechanical Engineering, Thermal System Design, Manufacturing Engineering.

The department also offers Ph.D. programs to promote research activities in the above mentioned areas. The consulting services in diverse fields of Engineering are carried out for local government, semi-government, non- government organizations, private firms etc. also.

ABOUT THE PROGRAM

Over the past few decades, research in the area of energy has contributed immensely to various technological developments in engineering applications. Recent emphasis on energy problems has generated renewed interest in turbines, compressors and fans. Steam and gas turbines develop the bulk of power required for land and air applications. Similarly, fans, blowers and compressors are some of the major power-absorbing machines in industry. Small and heavy-duty fans and blowers cover a wide range of industrial applications. Axial fans are used for propelling small low-speed aircraft, while large jets employ axial-ducted fans in their comparatively new turbo-fan concepts. The wind turbine or windmill has reappeared on the power-generation scene.

Along with turbomachinery design, performance testing is a critical part of the development process to ensure product reliability and successful operation. Whether used to generate data for a baseline prototype, validate new operating ranges, or benchmark current machines against new designs, test data must be reliable, accurate, repeatable and should guarantee safe operation of the turbomachine under design and off-design operating conditions.

The AxSTREAM® software platform for multidisciplinary design, analysis and optimization provides an integrated and streamlined approach to turbomachinery

design. This best-in-class software solution encompasses the complete process for radial, axial and mixed flow turbomachinery design. This includes gas and steam turbines, compressors, blowers, pumps, fans, rotors, bearings, secondary flows, and cooling.

This workshop will focus on best practices for design process and its optimization of the power plants and its components encompassing from the thermodynamic cycle analysis to individual components design using the AxSTREAM® Platform.

WHO SHOULD ATTEND

- Engineers, scientists and research scholars looking for new ways to optimize turbomachinery design process.
- Engineering managers overseeing the design process and tools used
- Entry level engineers looking to learn more about helpful tools to get them started in the turbomachinery field
- Professors who wish to utilize specialized tools and resources related to the latest engineering findings
- Research scholars to learn solving the turbomachinery research problems

IMPORTANT DATES

The program will be organized through Google meet. The last date for registration is

10th April, 2021. Number of participants is limited. Selection will be as per the eligibility, and on First-Come-First-Served basis. Short listed candidates will be informed through email. However, the certificate of participation will be issued only to those candidates securing more than 80 % attendance.

REGISTRATION FEE

Registration fee for the program is Rs. 500 for research student, Rs. 1000 for faculty from academic institution and Rs. 5000 for industry personnel and practicing engineers. Participants have to send bonafide certificate/photocopy of their valid identity card and payment details to nikhil@med.svnit.ac.in. The registration fee should be paid online mode in account of "Director, SVNIT-CCE " A/C No: 37030749143 SBI Bank, SVRCET Branch Surat, IFSC: SBIN0003320.

REGISTRATION LINK

Registration can be done using the following link or by scanning the given QR code.

URL: <https://rggo.page.link/79UWz>

