



**SRMS**

College of  
Engineering &  
Technology, Bareilly

# FACULTY DEVELOPMENT PROGRAMME

Department of Mechanical Engineering

## Applied Thermodynamics

01<sup>st</sup> - 05<sup>th</sup> August, 2016

*Sponsored by*

**Dr. A.P.J. Abdul Kalam Technical University,  
Lucknow, Uttar Pradesh**



### Motivator & Guide

**Prof. (Dr.) Vinay Kumar Pathak**  
Hon'ble V.C., Dr. APJAKTU, Lucknow

### List of Eminent Speakers

**Dr. Ravi Kumar**  
IIT Roorkee

**Dr. P. Ghosh**  
IIT BHU, Varansi

**Dr. O. P. Singh**  
IIT BHU, Varansi

**Dr. R. P. Gakkhar**  
IIT Roorkee

**Dr. S. Khandekar**  
IIT Kanpur

### Chief Patron

**Shri Dev Murti**  
Chairman, SRMS Trust

### Patron

**Shri Aditya Murti**  
Secretary, SRMS Trust

### Advisors

**Er. Subhash Mehra**  
Trust Administrator, SRMS Trust

**Prof. (Dr.) Prabhakar Gupta**  
Dean Academics, SRMSCET, Bareilly

### Organizing Committee

Program Co-ordinator

**Er. S. Deva**

Head - MED, SRMSCET, Bareilly  
Mob.: 9458702536, 9837339949  
Email-deva.shailendra@gmail.com

Contact Persons

**Mr. Amit Dixit**

Mob.: 9458702630  
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**Mr. Amir Hussain**

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Email-hussain.amir786@gmail.com

**Mr. Ashwani Chauhan**

Mob.: 9458703120  
Email-ashipe90@gmail.com

### NEED AND MOTIVATION:

In order to enhance the quality of classroom delivery of academic programs being run and foster a better ecosystem for research and innovation in the institutions, the AKTU has decided to conduct faculty development programs (FDP) at large scale in different clusters of the state. To initiate this activity this FDP is being planned and designed. It aims at deliberation, sharing knowledge to the target audience about the significance of thermodynamics and present current research opportunities in this field.

### OVERVIEW:

Thermodynamics is science of energy transfer and its effect on the physical properties of substances. It is based upon observations of common experience which have been formulated into thermodynamic laws. These laws govern the principles of energy conversion. The applications of the thermodynamic laws and principles are found in all fields of energy technology, notably in steam and nuclear power plants, IC engines, gas turbines, air-conditioning, refrigeration, gas dynamics, jet propulsion, compressors, chemical process plants and direct energy conversion devices.

### CONTENTS:

An extensive coverage will be provided in this faculty development program (FDP) on the following aspects:

- ▶ Thermodynamic fundamentals
- ▶ Compressors
- ▶ Heat Exchangers
- ▶ Refrigeration
- ▶ Air-conditioning
- ▶ CFD & its applications
- ▶ Heat Pipes
- ▶ Mixture Boiling
- ▶ Combustion Thermodynamics
- ▶ 2-Stroke Marine Engines
- ▶ Power Generation
- ▶ Co-generation cycles
- ▶ 3 - Phase Contact Lines
- ▶ Product Design

### PEDAGOGY:

The sessions of this Faculty Development Program shall be conducted by the team of eminent academicians & industry experts possessing in-depth knowledge in the area of Applied Thermodynamics. It will consist of a series of lectures and hands-on practical sessions.

### WHO CAN ATTEND?

This Faculty Development Program is especially designed for faculty members of engineering colleges affiliated to Dr. A.P.J.A.K. Technical University, Lucknow. The faculty members of other courses who are interested to enhance research skills can also join this Program.

### DURATION:

This is a Five-Day program scheduled from 01<sup>st</sup> to 05<sup>th</sup> August, 2016 and will be conducted in different sessions from 9:00 am to 5:00 pm everyday.

**CERTIFICATION:**

Department of Mechanical Engineering of SRMS College of Engineering & Technology, Bareilly will award the 'Certificate of Participation' to each participant after completion of the program.

**STAY ARRANGEMENT:**

The college will provide free accommodation and fooding to each outstation participants of this Faculty Development Program. The participants who need accommodation during Faculty Development Program are required to make request for that in the registration form.

**PROGRAM FEE:**

The Faculty Development Program fee is ₹ 2000/- per participant. However, The Chairman, SRMS Trust will reimburse ₹1000/- per participant to encourage research and development among participants. Hence, the registration fee for the FDP will be ₹ 1000/- per participant.

**REGISTRATION DETAILS**

Candidates can register themselves by sending the duly filled downloaded registration form from college website <http://www.srms.ac.in/cet/> along with the **Demand Draft** drawn in favour of "SRMSCET" payable at **Bareilly** and send it to **The FDP Co-ordinator, Department of Mechanical Engineering, SRMSCET, Bareilly (U.P.) 243202**. Registration fee can also be paid in cash at the venue of FDP.

**LAST DATE FOR REGISTRATION : 31<sup>st</sup> July, 2016**

**HOST CITY:**

Bareilly is a beautiful city and has a rich cultural heritage. Bareilly comes under the India Smart cities project under Ministry of Urban Development, Government of India. It is located between Delhi and Lucknow. Bareilly is well linked by road and railway from every corner of the country. Bareilly is at approximately 250 km away from both Delhi and Lucknow.

**ABOUT US:**

Department of Mechanical Engineering of SRMSCET, Bareilly offers Four years fulltime B.Tech. Program & Two Years M. Tech. Program approved by AICTE and affiliated to Dr. A.P.J.A.K. Technical University, Lucknow. It is top ranked in B.Tech. Programs of the affiliating university and widely recognised by industries also due to emphasis on overall quality assurance. It organises seminars and workshops every year on latest areas of interest to provide a platform for knowledge sharing by Industry-Institute Interactions. During that occasions people from industry and academic institutions are invited for deliberation and discussion.

**Venue**

**New Seminar Hall**

Department of Mechanical Engineering

**Shri Ram Murti Smarak College of Engineering & Technology**

Ram Murti Puram 13 Km, Bareilly-Nainital Road, Bhojipura-243202, UP, India

Phone: 91-581-2582246, 2582249, 2582331, 2582332, FAX: 91-581-2582330

E-mail : [fdpme2016@srmscet.edu](mailto:fdpme2016@srmscet.edu), website : <http://www.srms.ac.in/cet/>

## SRMS College of Engineering & Technology, Bareilly

Shri Ram Murti Smarak College of Engineering & Technology Bareilly campus is offering AICTE approved M.Tech, MBA, MCA and B.Tech (Computer Science & Engineering, Electronics & Communication Engineering, Information Technology, Electrical & Electronics and Mechanical Engineering). SRMS College of Engineering & Technology (Pharmacy) is offering M.Pharm & B. Pharm Courses. The college is affiliated to Dr. A.P.J.A.K. Technical University, Lucknow.



E-mail : [srmset@srmscet.edu](mailto:srmset@srmscet.edu) • Website : [www.srmset.edu](http://www.srmset.edu)

## SRMS College of Engineering, Technology & Research, Bareilly

Shri Ram Murti Smarak College of Engineering, Technology & Research is offering AICTE approved B.Tech Course in Computer Science & Engineering, Electronics & Communication Engineering, Electrical Engineering. It is affiliated to Dr. A.P.J.A.K. Technical University, Lucknow.



E-mail : [info@srmswct.ac.in](mailto:info@srmswct.ac.in) • Website : [www.srmswct.ac.in](http://www.srmswct.ac.in)

## SRMS Institute of Medical Sciences, Bareilly

- HOSPITAL** : Shri Ram Murti Smarak Institute of Medical Sciences, Bareilly is a 950 beds multi super speciality tertiary & trauma care hospital.
- MEDICAL COLLEGE** : Shri Ram Murti Smarak Institute of Medical Sciences, Bareilly is offering MBBS & MD, MS Course approved by Medical Council of India, New Delhi since academic session 2005-2006. It is affiliated to MJP Rohilkhand University, Bareilly.
- SRMS SCHOOL OF NURSING** : Offering diploma in General Nursing & Midwifery (GNM)
- R.R. CANCER INSTITUTE & RESEARCH CENTER**
- SRMS INSTITUTE OF PARAMEDICAL SCIENCES**



E-mail : [info@srmsims.ac.in](mailto:info@srmsims.ac.in) • Website : [www.srmsims.ac.in](http://www.srmsims.ac.in)



SRMS SCHOOL OF NURSING



R.R. CANCER INSTITUTE & RESEARCH CENTER

## SRMS College of Engineering & Technology, Unnao

Shri Ram Murti Smarak College of Engineering & Technology Unnao campus is offering AICTE approved B.Tech Course in Computer Science & Engineering, Electronics & Communication Engineering, Mechanical Engineering, Electrical & Electronics Engineering, Electronics Engineering. It is affiliated to Dr. A.P.J.A.K. Technical University, Lucknow.



E-mail : [info@srmscet-lkr.ac.in](mailto:info@srmscet-lkr.ac.in) • Website : [www.srmset-lkr.ac.in](http://www.srmset-lkr.ac.in)

## SRMS International Business School, Unnao

Shri Ram Murti Smarak International Business School is a world class management school in Lucknow region offering AICTE approved PGDM course. It has distinctive faculty, global curriculum and world class infrastructure.



E-mail : [info@ibs.srms.ac.in](mailto:info@ibs.srms.ac.in) • Website : [www.ibs.srms.ac.in](http://www.ibs.srms.ac.in)

## SRMS Functional Imaging & Medical Centre, Lucknow

Shri Ram Murti Smarak Functional Imaging & Medical Centre, Lucknow is India's one of the most advanced diagnostic centre at Lucknow which is an ONESTOP for all diagnostic needs under ONE ROOF.



E-mail : [srmsfimc@srms.ac.in](mailto:srmsfimc@srms.ac.in) •

# Shri Ram Murti Smarak College of Engineering & Technology

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# REGISTRATION FORM

## **FACULTY DEVELOPMENT PROGRAM**

Organised by Department of Mechanical Engineering, SRMSCET, Bareilly  
and

Sponsored by Dr. A. P. J. Abdul Kalam Technical University, Lucknow  
on

### **"Applied Thermodynamics"**

(01<sup>st</sup> - 05<sup>th</sup> August, 2016)

1. Name \_\_\_\_\_  
(In Block Letters)

2. Designation \_\_\_\_\_

3. Name & Address of Institute/Organization \_\_\_\_\_  
\_\_\_\_\_

4. Address for Communication \_\_\_\_\_  
\_\_\_\_\_

E-Mail \_\_\_\_\_

Phone / Mobile No. \_\_\_\_\_

5. Accommodation Required Yes  No

6. Payment Options:

Demand Draft  Cash

Demand Draft Details: D.D. No. \_\_\_\_\_ Amount Rs \_\_\_\_\_

Demand Draft Issue Date : \_\_\_\_\_ Bank Name: \_\_\_\_\_

(Demand Draft drawn in favour of **SRMSCET** payable at **Bareilly**)

Place \_\_\_\_\_

Date \_\_\_\_\_

\_\_\_\_\_  
(Signature of the applicant)

**Venue**

**New Seminar Hall**

Department of Mechanical Engineering

**Shri Ram Murti Smarak College of Engineering & Technology**

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