

Application Form for  
Short Term Course (STC)

on

“Mathematical Methods and Computations in  
Engineering(MMCE-2019)”

Duration: July 1<sup>st</sup> – 6<sup>th</sup>, 2019

(You may get the form enlarged by xeroxing  
on A4 Size paper)



Affix  
passport sized  
Photograph

1. Name: Ms./Mr./Dr. : .....
  - (In block letters)
  2. Designation: .....
  3. Age (years): .....
  4. Field of Specialization: .....
  5. Name of the Institute where employed: .....
  6. Name of the Department: .....
  7. Academic qualification: .....
  8. Teaching experience in years: .....
  9. Complete official mailing address: .....
  10. Email: .....
  11. Mob: .....
  12. Accommodation required: Yes/No: .....
- I am enclosing a demand draft number .....  
of Rs. .... in favor of the “ DIRECTOR SBSSTC,  
Ferozepur ” payable at Ferozepur as registration fee.

Place: Applicant's Signature

Signature Sponsoring Authority Date:.....  
(Principal / Director)

Note: Scanned Registration form through e-mail will also be  
accepted. Send the online transaction details to the  
organizers.

**NOTE**

1. This application form should reach the latest by 21.06.2019.
2. The applications without sponsorship certificate will not be accepted.
3. Please note that 100% attendance is compulsory for the course.
4. A limited number of participants will be selected, based on seat availability.

**RESOURCE PERSONS**

1. **Prof. Raj Kumar Gupta**  
Thapar Institute of Engg. & Tech, Patiala
2. **Dr. Raj Kumar Arya**  
Associate Prof NIT Jalandhar.
3. **Dr. Satvir Singh**  
Associate Prof. PTU Main Campus
4. **Dr. Neel Kanth Grover**  
Associate Prof. PTU Main Campus.
5. **Dr. S.K. Srivastava**  
Associate Prof. BCET Gurdaspur.

**ORGANIZING COMMITTEE**

Patron-in-chief  
**Dr. T. S. Sidhu**, Director  
Patron  
**Dr. Rajiv Arora**, HOD, Chemical Engg.  
Convenor  
**Dr. Pankaj Kalra**, Asst. Prof, Chemical Engg.

**COURSE CORDINATORS**

**Dr. Rajeev Kumar Garg**, Associate Prof., Chemical Engg.  
**Mrs. Balpreet Kaur**, Associate Prof., Chemical Engg.  
**Dr. Amit Arora**, Asst. Prof., Chemical Engg.  
**Mr. Surinder Singh**, Asst. Prof., Chemical Engg.

**ADVISORY COMMITTEE**

**Dr. Lalit Sharma**, Associate Director (EW)  
**Dr. A.K. Tyagi**, Prof., App. Sci. & Hum.  
**Dr. Rajeev Kumar Garg**, Associate Prof., Chemical Engg.  
**Dr. Kulbhushan Agnihotri**, Associate Prof., App. Sci. & Hum.  
**Dr. Sangeeta Sharma**, HOD, App. Sci. & Hum.  
**Dr. Ajay Kumar**, Associate Prof., App. Sci. & Hum.

**ADDRESS FOR CORRESPONDENCE**

**Dr. Pankaj Kalra**, Convener, MMCE-2019,  
Dept. of Chemical Engg. SBSSTC, Moga Road  
Ferozepur-152004 (PUNJAB) INDIA  
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Email: pankajkalra75@gmail.com

**AICTE SPONSORED  
SHORT TERM TRAINING PROGRAMME**



sponsored

ON

**Mathematical Methods  
and  
Computations  
in Engineering  
(MMCE-2019)**

**1<sup>st</sup> - 6<sup>th</sup> July 2019**

Organized  
by



**Department of Chemical Engineering  
Shaheed Bhagat Singh State Technical Campus**

Moga Road (NH-95), Ferozepur-152004 (Punjab), INDIA

**Patron-in-chief  
Dr. T. S. Sidhu  
Director**

**Patron  
Dr. Rajiv Arora  
HOD  
Chemical Engg.**

**Convenor  
Dr. Pankaj Kalra  
Asst. Prof.  
Chemical Engg.**

## ABOUT INSTITUTE

The Institute was established by the Government of Punjab in 1995 with the name Shaheed Bhagat Singh College of Engineering & Technology as a tribute to the great martyr Shaheed Bhagat Singh. In the academic year 2011-12, it was upgraded to the status of a technical campus and rechristened as Shaheed Bhagat Singh State Technical Campus, Ferozpur. The institute is fully promoted by the Punjab Government and is registered as a Society under the Societies Registration Act 1860. Its affairs are administered by a Board of Governors. The Technical Campus, with its lush green state-of-the-art campus spread over 98 acres is situated on Ferozpur-Moga Road, about four Kilometers away from the Ferozpur city. The institute attained Academic autonomy from UGC in the year 2015.

## ABOUT FEROZEPUR

The city, Ferozpur is situated on the Indo Pakistan International border. It is well connected by road and rail with important cities like Amritsar, Ludhiana, Jalandhar, Chandigarh, Delhi and rest of the country. As per the annals of history, Ferozshah Tughlaq founded the city in the fourteenth century. However, it is also believed that its founder is Feroz Khan, one of the Bhatti chiefs. Having a rich heritage, it indeed has maintained its name. In the undivided India it has been a centre of trade and commerce. Ferozpur, with numerous holy shrines, historical places and memorials in and around, has earned a rare status. The hallowed Samadhis of the martyrs Bhagat Singh, Rajguru and Sukhdev, the Saragarhi Gurudwara commemorating the heroic sacrifice of twenty one Sikh soldiers at Saragarhi post in Baluchistan and the Jain Swetambar Temple at Zira constructed in 1890 A.D. are some of the places of pilgrimage showing the spirit of universal brotherhood.

## ABOUT DEPARTMENT

The Department of Chemical Engineering was started in 1996 to cater to the requirements of chemical industry. The department has highly experienced and dedicated faculty & staff with educational background from renowned institutions in the country. Department of Chemical Engineering endeavors to develop the competencies in the students for any challenge in their professional practice and contribute to society. Students are encouraged to take up projects, which will help them to sharpen their Chemical Engineering skills in practice.

## OBJECTIVE OF THE COURSE

Applied mathematics is an interdisciplinary field that deals with the application of mathematics to practical problems in physical sciences, social sciences, technology, engineering or business. It includes different mathematical branches such as mathematics of engineering, linear programming, continuous modelling, numerical analysis, statistics, information theory, game theory, etc. Cutting-edge frontiers in competition has made it imperative to strengthen the mathematical and computational component of research today. It also forms significant component of which is today required in industry and R&D establishments for trouble-shooting. Obviously, a mathematical representation of Physical phenomena is of vital importance for academia and Engineers.

The Short term training program will provide a platform for enriching the mathematical flavour and culture in various fields of engineering, technology and sciences. The purpose of this course will be to tackle the necessary ideas and mathematical elements with confidence and preservice. We aim at bringing together academicians, researchers and people using mathematics in industry and elsewhere, to share their knowledge and exchange views and ideas. This will facilitate to discuss future prospects in the field of engineering applications of Mathematics.

Besides mathematical knowledge and analytical reasoning, the participants of the STC will acquire knowledge of problem-formulation and problem-solving techniques, learn good work management skills, a high capacity to conceptualise and to communicate results and arguments.

## COURSE CONTENTS

- ☞ Introduction of Mathematical Techniques
- ☞ Methods to solve ordinary and partial differential equations.
- ☞ Numerical solution for differential equations and methods.
- ☞ Basic Optimization problems with techniques.
- ☞ Numerical illustrations and assessment etc.
- ☞ Fundamentals of Mathematical Modelling.
- ☞ Mathematical model development from real world data.
- ☞ Applications of various techniques in engineering problems.
- ☞ Simulation of Mathematical problems.
- ☞ Hands on practices on mathematical software

## TARGET PARTICIPANTS

This programme is primarily planned for faculty/research scholars working in various disciplines like Engineering, Physical and Social sciences.

## REGISTRATION

Category Registration fee  
Faculty/Research Scholars: Rs. 500/-  
Industry sponsored participants: Rs. 1000/-  
Registration form along with registration fee (in the form of Demand Draft drawn in favour of "DIRECTOR, SBSSTC Ferozpur" payable at Ferozpur) is to be sent to  
Dr. Pankaj Kalra  
Convener- MMCE-2019  
Dept. of Chemical Engineering  
SBSSTC, Moga Road, Ferozpur - 152004  
(PUNJAB) INDIA. Mob: +91-8054100770  
E-mail: pankajkalra75@gmail.com

Application in the attached form/downloaded from [www.sbsstc.ac.in](http://www.sbsstc.ac.in) (along with registration fee) duly recommended by Head of the Department should reach on or before **21st June, 2019**. However, an advance copy of the application may be sent to the organizers.

## BOARDING & LODGING

Outside participants may be provided with boarding and lodging facility at the institute's guest house/Hostel on twin sharing basis subject to availability at no extra cost. However, Prior intimation is necessarily required. 2nd class Train/Bus Fair will be given to outside participant on production of relevant tickets.

## HOW TO REACH US

