ABOUT THE COURSE

Piping Engineering course has been conducted 75 times since 1992. This is the seventy sixth edition of the course.

About 10,000 engineers and 500 organizations in India and abroad benefitted from this unique course in the last 27 years. Four editions of the course were conducted in Sharjah and Dubai for the local engineering community.

Piping Engineering is a truly multidisciplinary subject. It draws its knowledge base from various engineering disciplines such as chemical, mechanical, civil, electrical, metallurgical, instrumentation, control. Traditionally, chemical or mechanical engineers have taken to this profession and it is believed that about 10 years of on-job experience and exposure can make a few gifted ones ‘piping engineers’ in real sense. Design/engineering sector as well as operating companies have always yearned for a formal training program in piping engineering to expedite the slow self-training approach. The present course was started to fulfill this yearning and that it has been running for over 25 years is a testimony for its success in meeting demands of industry.

Few design organizations and eminent piping engineers joined hands with IIT Bombay and methodically designed a formal Certificate Course on Piping Engineering for chemical and mechanical engineering graduates. Once it was offered in 1992, the course has had a fairy tale like journey and is the most sought after course in the engineering circles.

The course has undergone continuous revisions, helped to a large extent by the feedback given by the participants and the industry. It is now an optimal mixture of theory and practice. The instruction hours are shared by IIT faculty and speakers from industry, the latter playing a significant role.

The activity was institutionalized through the formation of a Piping Engineering Cell in CAD Centre, IIT Bombay, which now conducts this course. The Cell has now a collection of most state-of-the-art piping engineering software. This is extensively used during the course.

The open course is conducted twice every year, the winter and summer editions. Enrollment for the Winter 2019 edition is now open. Note that the medium of instruction in the course is English.

In view of increasing demand from foreign participants for seats in this course 20 seats have been especially reserved for them this time. Although the last date for all categories is the same, foreign participants are advised to apply as early as possible to complete the visa formalities.

THE COURSE COVERAGE

Fresh or working, chemical or mechanical engineering graduates are normally preferred. Few seats are also given to the instrumentation, production and refinery-engineering graduates on proven aptitude basis. Diploma holders are normally not admitted. In exceptional cases, diploma holders with considerable relevant experience (at least 7 Years) are admitted. It is an exposure level course and the participant profile is young. Experienced working engineers from operating companies and design organizations also attend in significant numbers and have found the course a horizon - widening experience.

The vastness of the subject and limited duration of the course do not allow in-depth coverage of each and every topic. The topics covered are:

- Scope of Piping Engineering
- Codes and Standards
- Piping Elements & Specialties
- Mechanical Design Fundamentals
- Pipe Hydraulics & Sizing
- Piping Drawing Basics
- Development of Plot Plan
- Equipment Layout
- Process Piping Layout
- Utility Piping Layout
- Flexibility Analysis
- Selection of Supports & Expansion Joints
- Exposure Level Lectures are delivered on some of the following topics.
- Steam Engineering
- Transient Fluid Flow Analysis
- Cryogenic Storage
- Dynamic Analysis
- Process Insulation
- Instrumentation and Control

Practicals are an important part of the course. The participants are encouraged to develop rational thinking skills through a case study approach. Exposure to important CAD tools available in Piping Engineering arena is offered.

Multimedia teaching aids are incorporated. This allows display of three dimensional plant models, carrying out computer aided design and engineering in the classroom itself, showing video clippings to support a point etc. At the same time, all care is taken to emphasize on teaching rather than on presentation.
Certificate of Participation would be issued to the candidates who have registered and participated in the course.

**COURSE FEES**

Rs.65,000/- plus 18% GST (self-financed candidates not working abroad / candidates sponsored by Indian Companies)

US $3500/- (Foreign Nationals / Non-Resident Indians, Persons working abroad)

The course fees are inclusive of one set of course material and working lunch. All other expenses are chargeable extra.

Companies please note that the courses conducted in IIT Bombay are exempt from Income Tax and hence no TDS should be deducted. To raise an Invoice, company's GSTIN is needed.

**ACCOMMODATION**

Subject to availability, only bachelor accommodation is offered in the IIT Students Hostels (Rs. 300 per day). IIT Guest House accommodation is not available. Accommodation is not included in the course fees and is on first-come-first-served basis.

**LAST DATE**

The enrollments are strictly on first-come-first-served basis and close latest by November 25, 2019. Please note that this is the last closing date and enrollments are normally closed as soon as the seats are full. As per past experience, seats fill well before the last date.

**REGISTRATION & PAYMENT OF FEES**

To register online and make payment of the course fees, please visit:

[https://portal.iitb.ac.in/ceqipapp/](https://portal.iitb.ac.in/ceqipapp/)

The seat is confirmed only after online registration and receipt of payment. Fees once paid are not refundable under any circumstances. In special cases, transfer of registration to the next course or replacement of the registered candidate by another eligible candidate may be permitted.