

College of Engineering Pune
(An Autonomous Institute of Govt. of Maharashtra)

Two-Day Course
TRIZ Innovation for Problem Solving
and Opportunity Creation
(15th - 16th Dec 2017)

Registration Form

Name: _____

**Name of
College/Industry:** _____

Qualification: _____

Designation: _____

Experience in Years: _____

Email ID: _____

Mobile No.: _____

Date: _____ **Signature** _____

Important Information:
Last date of receiving application: **8th December 2017**

Registration fees:
Faculty : Rs. 3,000/- + 18% GST = Rs. 3540/-
Industry Personnel: Rs. 6,000/- + 18% GST =
Rs. 7080/-

Online Registration Link:
<https://goo.gl/forms/8FZVFj6YTBibE5Bt1>

Payment Mode: Online through RTGS/NEFT

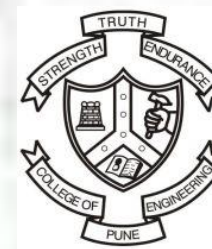
Account Name: Director, College of
Engineering, Pune
Account No.: 11099464977
Bank Name: State Bank of India
Branch: College of Engineering, Pune
IFS Code: SBIN0010431
SWIFT CODE: SBININBB238
Branch Code: 10431
MICR Code: 411002060

Note: Registration fees include tea & lunch and
registration kit

Contact:
Dr. P. P. Bartakke (Coordinator),
Associate Professor,
Department of Electronics & Telecommunication,
College of Engineering, Shivajinagar, Pune-411005.
Tel: 020-25507153(O) 94225 26931(M)
Email: ppb.extc@coep.ac.in

Mr. S. G. Mali (Co-Coordinator),
Assistant Professor,
Department of Electronics & Telecommunication,
College of Engineering, Shivajinagar, Pune-411005.
Tel: 020-25507142(O), 94221 28579(M)
Email: sgm.extc@coep.ac.in

Two-Day Course
TRIZ Innovation for Problem Solving
and Opportunity Creation
(15th - 16th Dec 2017)



Organized by
Centre of Excellence in Signal and
Image Processing

College of Engineering Pune
(An Autonomous Institute of Govt. of Maharashtra)

Shivajinagar, Pune 411 005,
INDIA.

Coordinator
Dr. P. P. Bartakke

Co-Coordinator
Mr. S. G. Mali

About COEP Pune:

College of Engineering, Pune (COEP), is one of the oldest and premier technical institutes and is a nationally acclaimed leader in technical education. The institute has a rich glorious history of excellence in engineering education. The research in COEP spans a wide range from conventional to the state of the art frontier areas in engineering. The institute is consistently ranked amongst the top 20 technical colleges in India.

Centre of Excellence in Signal & Image Processing:

Centre of Excellence in Signal & Image Processing (**CoE-S&IP**) is an R & D establishment coordinated by **Department of Electronics and Telecommunication**. The Centre, funded by MHRD-World bank under TEQIP-II, has an objective of pursuing fundamental and applied research & development across wide spectrum of Signal Processing applications. State-of-art facility in terms of equipment/systems has been created. The major areas of research are Multimedia and Multidimensional Signal Processing, spanning from text, document, through speech, audio, image and video signals, Signal Analysis and Decision support systems for biological/ biomedical, Automotive/ industrial and metallographic signals

Course Outline:

Need for Systematic Innovation

The goal of industry is to seek innovative solutions to engineering problems, quickly and with fewer resources. This is required to improve their products. However, human nature, specialist training, habits, paradigms and the working environment constrain our innovative thinking. This is called "psychological Inertia" and it has to be overcome to obtain innovative solution concepts for the chronic technical problems.

TRIZ is the only scientifically based systematic methodology that overcomes this "psychological inertia". TRIZ has been proven to produce a large range of fundamentally strong solution concepts in a much shorter time scale even when resources are very limited. TRIZ solutions directly result in improved products at reduced cost.

TRIZ is a Russian acronym meaning "Theory of Inventive Problem Solving". In late 1940's, a study of 200,000 patents yielded a systematic approach for definition and identification of innovative problems, a set of problem solving tools, and a vast knowledge database, which can help solve current technical problems in an innovative way.

Course Contents:

This course introduces all the main **TRIZ tools** so that delegates can first identify the "inventive" problem and then find several "innovative" solutions for the same. Various TRIZ tools covered in the course are:

- Use of 40-Inventive and 6-Separation Principles to resolve contradictions
- Ideality and Ideal Final Result (IFR)
- Problem formulation and Functional Analysis Diagram
- Use of Trends of Evolution and Evolutionary potential
- Use of S-Field model for eliminating Harmful effects.

The introduction to each TRIZ tool is followed by real world examples of the method in action.

The course will be conducted by

Prof. Prakash R. Apte

Professor Apte has, for the past 17 years, conducted over 100 courses on "TRIZ – Innovative problem solving" for Indian industries, emphasizing its potential in innovative problem solving and opportunity creation. He has introduced "TRIZ" to hundreds of engineers and managers from industry.

Patron:

Dr. B. B. Ahuja, Director, COEP

Advisor:

Prof. M. S. Sutaone,

Principal Investigator, COE-S&IP & Dean Academics, COEP