

## ABOUT THE INSTITUTE :

Pimpri Chinchwad College of Engineering, established in the year 1999 is run by Pimpri Chinchwad Education Trust.

## Courses at PCCOE :

### Undergraduate Courses :

- Mechanical Engineering (NBA accredited)
- Computer Engineering (NBA accredited)
- Electronics & Telecommunication Engineering (NBA accredited)
- Information Technology (NBA accredited)
- Civil Engineering

### Post Graduate Courses :

- M. E. (Computer)
- M. E. (Design)
- M. E. (Heat power)
- M. E. (VLSI & Embedded System)
- M. E. (IT)
- MBA and MCA

### Salient Features :

- NAAC accredited with 'A' Grade.
- Approved by AICTE, DTE, Govt. of Maharashtra.
- Permanent Affiliation by Savitribai Phule Pune University.
- Best College Award by Student Welfare Department Savitribai Phule Pune University.
- An ISO 9001 : 2015 Certified Institute by TUV NORD.
- Excellent in Results.

### OBJECTIVES OF THE EVENT :

Experiencing the tremendous response and enthusiasm of first year engineering students across Maharashtra for the Technical Symposium "SPECTRUM" since 2008, we are eager to organize SPECTRUM 2018 for the Eleventh consecutive year. The major objective of this event is to provide a platform exclusively to First Year Engineering students to express and apply their innovative ideas and hidden talents in the competitive technological scenario.

### SUPPORTED BY



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Pimpri Chinchwad Education Trust, Nigdi, Pune

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**Mr. Virag A. Umathe**  
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**Ms. Prajakta S. Shinde**  
Joint Treasurer

## ADDRESS FOR CORRESPONDENCE



# SPECTRUM 2018

Department of First Year Engineering  
Pimpri Chinchwad College of Engineering

Sector 26, Pradhikaran, Nigdi, Pune, 411044,

Ph. No. (020) 27653168 Fax No. (020) 27641023. College Website: [www.pccoepune.com](http://www.pccoepune.com)

Event website: [www.pccoospectrum.com](http://www.pccoospectrum.com)

Email: [spectrumfar2018@gmail.com](mailto:spectrumfar2018@gmail.com)



PIMPRI CHINCHWAD EDUCATION TRUST'S

# PIMPRI CHINCHWAD COLLEGE OF ENGINEERING

(NBA Accredited, NAAC Accredited with 'A' Grade,  
An ISO 9001:2015 Certified Institute)

Sector No 26, Pradhikaran, Nigdi, PUNE, 411044

## DEPARTMENT OF FIRST YEAR ENGINEERING

Organizes



# SPECTRUM 2018

...where technology meets creativity

## A STATE LEVEL TECHNICAL SYMPOSIUM

On

**Sunday, 25<sup>th</sup> March 2018**



## EVENTS

Brain Dasher, C-Coder, Circuit Wizard,  
Contraption, On Spot Model Making, Paper -  
Presentation, Robo Soccer, Short Movie Making,  
Tech Treasure Hunt and Auto-cad Mania

## SUPPORTED BY



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## EVENT DETAILS

### PAPER PRESENTATION

Papers are invited on the topic : "Technology as the Core Strength of the Nation"

#### Rules :

- Maximum two students per team.
- Limited papers will be selected.
- Time allotted 10 minutes per paper.

#### Guidelines :

- Presentation should be in MS power point.
- Last date of submission of Abstracts and full length paper by e-mail - 20<sup>th</sup> March 2018
- One soft copy and two hard copies of full length paper should be submitted on registration desk.
- Evaluation will be based on subject content, understanding and presentation skills.
- Confirmation of Paper – 22<sup>nd</sup> March 2018

### ON SPOT MODEL MAKING

Design a bridge using icesticks and glue like fevicol. The bridge will be tested by hanging weights on the centre of bridge.

#### Guidelines :

Design should be close to reality.

#### Rules :

- Maximum Three students per team
- Ice-sticks and fevicol will be provided.
- Bring your own measuring & cutting instruments.
- Span of a Bridge must 30 cm (Other dimensions can be proportionately taken).
- Thread or other than prescribed material is not allowed.
- Winner will be declared on basis of ratio of load taken /self weight of bridge.

### BRAIN DASHER

Solving mathematical and logical puzzles,

#### Rules :

Maximum Two students per team There are four rounds in this event.

- Do & Die** : Every team will be given a question paper which contains 10 questions.
- Take & Make** : Solve one Logical puzzle and one Mathematical Puzzle.
- Fun O' Fast** : One game to play and one model based puzzle to solve.
- Terminator** : Model based puzzle to solve.

### TECH TREASURE HUNT

Hunt the treasure with your technical skills & knowledge.

#### Rules :

- Maximum three students per team.
- Riddles will be based on all first year engineering subjects.
- Time taken and techniques used will carry due weightage in evaluation.
- Use of any electronic device and printed material is not allowed.

### ROBOSOCCER

Build a wired/wireless ROBOT which will play Soccer.

#### Rules :

- Maximum two students per team.
- One on One match.
- Electrically powered robots only.
- Maximum weight 3 Kg and maximum 4 motors.
- No trials will be allowed.

#### Guidelines :

- Maximum size 45 x 30 x 30 cm.
- Maximum weight should be of 3 Kg.
- Maximum 12 volt DC power will be provided.
- Extra attachments are allowed (within mentioned size)
- No weapons (blades/spikes) are allowed.

### CIRCUIT WIZARD

Unravel the mystery behind the bugs of circuits.

#### Rules :

- Maximum four students per team.
- Round 1: This round will include multiple choice question test. Questions will be based on "Basic electronics and circuits".
- Round 2 : Problem statement based circuit building and testing.
- Round 3 : The faulty circuits are to be rectified with explanation.

#### Guidelines :

- No external components allowed
- All the required components will be provided at the time of event

### AUTO-CAD MANIA

Explore your Imagination. Prepare Isometric projections of given component by using Auto CAD software.

#### Rules :

- Individual Entry.
- Round 1 : Simple Component.

- Round 2 : Machine Component.
- Computer system with software will be provided.
- Maximum limit is 30 minutes for each round .
- Round 1 will common for all participants and round II only for shortlisted participants.

### CONTRAPTION

Spotting a plastic ball in the goal through energy conversion.

#### Rules :

- Maximum three students per team.
- Contraption should have minimum of 6 steps.
- The maximum time limit is 30 minutes.

#### Guidelines :

- Goal post size will be 30 x30 x30 cm.
- The goal post will be kept 80 cm away from last part of your contraption.
- Points are based on each step and energy conversions used.
- Same Energy conversion should not be repeated in two consecutive steps.
- Variety in energy conversions will be awarded with additional points.

### C-CODER

C- Programming competition.

#### Rules :

- Individual or team of two students will be allowed to compete.
- Round 1 : Online MCQ test of C language (standard compiler gcc) (only one member is allowed in first round)
- Round 2 : Online C-coding (students need to write the correct code in C-language for given problem statement)
- Round 3 : Offline C-Coding (students need to identify problems and then write correct code in C language according to given story or video clip) (Standard compiler is gcc)

#### Guidelines :

- On the spot entries are not allowed.
- The decision of judges and coordinating committee will be final and binding on all participants.
- All the details regarding rules, modifications etc will be provided to participants on the day of the event

### SHORT MOVIE MAKING

Explore the artist in you

Theme : "Social Media -A boon or curse for society"

#### Rules :

- Maximum two students per team
- Scripted, edited, acted and directed by students
- For acting if required more than two students can be accommodated
- Unrefined and controversial matter should be avoided
- Any type of video or film camera can be used
- Pre-recorded sound effects are allowed
- Minimum duration is 5 min. and maximum 7 min.
- Completed film must be submitted on one of the following media:
  - Playable CD/DVD
  - USB flash drive (compatible with VLC media player)

### COMMON INSTRUCTIONS

- For Event details and downloading registration form for Spectrum 2017, visit the college web site.
- Registration Fee : Rs.100/participant/event
- Mode of payment : Cash/DD in favour of "The Principal, Pimpri Chinchwad College of Engineering", payable at Pune.
- Spot entries are allowed with prior permission.
- College Identity card is compulsory at the time of participation.

### ACCOMMODATION

Accommodation will be arranged for limited outstation participants on prior request.

Please confirm your participation by E-mail or Phone.

Email ID : [spectrumfar2018@gmail.com](mailto:spectrumfar2018@gmail.com)

Website : [www.pccoespectrum.com](http://www.pccoespectrum.com)

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