



## Student Centric Methods

Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

Teaching-learning methods adopted by the faculty members include Lecture Method, Interactive Method, Project-based Learning, Computer-assisted Learning, Experiential Learning, etc. The Teaching-learning activities are made effective through illustration and special lectures. Lessons are taught through PowerPoint presentations to make learning interesting besides oral presenting methods.

JSCOE believes in the implementation of students centric methods to augment student involvement as a part of participative learning and problem solving methodology. Role Plays, Team works, Debates, Seminar Quizzes and case studies Specifically Students centric Teaching Methods are reflected in project work, Field Visit, Industrial visit & guest lectures.

Various, the student's centric methodology undertaken at various departments are



## 1. Collaborative Learning

### 1.1 Project work

Project work is organized in three phases

- 1) Project Based Learning [For First Year and Second Year Students]
- 2) Mini project [For third Year students] And
- 3) Major Projects this is an essential element of each programme



**“KPIT Sparkle 2022-  
Team Elespa HEV”  
Platinum prize of Rs. 10 Lakh**

Internship or Field Projects in industry

### **1.2 Participation in competition at various level**

For Real time exposure students are encouraged to participated at National and International Level

### **STUDENT Achievements 2019-20**



**KPIT Sparkle winner  
Most Popular Award-  
Rs 1 Lac Winner team with Dr.  
Peter Tropschuh President &  
Head Audi, USA**



**AICTE Chhatra  
Vishwakarma Award 2019  
Team Unanimous 4 of  
Computer department won  
the 2nd prize Rs.31000/- .**

**“Regional Level  
Project Competition”  
Harshal Shrivagee and team  
won First Prize of Rs. 50,000**



**Auto India Racing Championship-  
1<sup>st</sup> Prize Winner of Aesthetic Design  
Champions**

### 1.3 Field Visits

Faculty identifies and propose Academically significant Field visits and Surveys

### 1.4 Industrial Visits

Departments Plan and Organise the industrial visits for students to provide exposure to industrial work culture.





**Student Visit of EV charging substation Bhekarai Nagar**

## 1.5 Guest Lecture

Guest lecture by eminent experts from industry and academics from across the world are organised to supplement the teaching process and provide experiential learning.



## VOIS Session on Project Assistance

## 2. Participated Learning

### FACULTY INNOVATION IN TEACHING-LEARNING

Innovative Approach	Details
Course video/interactive videos	200+course videos , All subject
Think pair Share	25 faculties implemented during course delivery
Game Pedagogy	44 faculties from MECH. and ETC developed game
Simulation	Virtual Labs for Analog and Digital Electronics-RKY,PLC and SCADA AUTOSIM, PICO-SOFT
Role Play	Used in management subject
Four Board Method	3 faculties applied to explain concept
Flip classroom	Occasionally classrooms are flipped



### 2.1 Role play

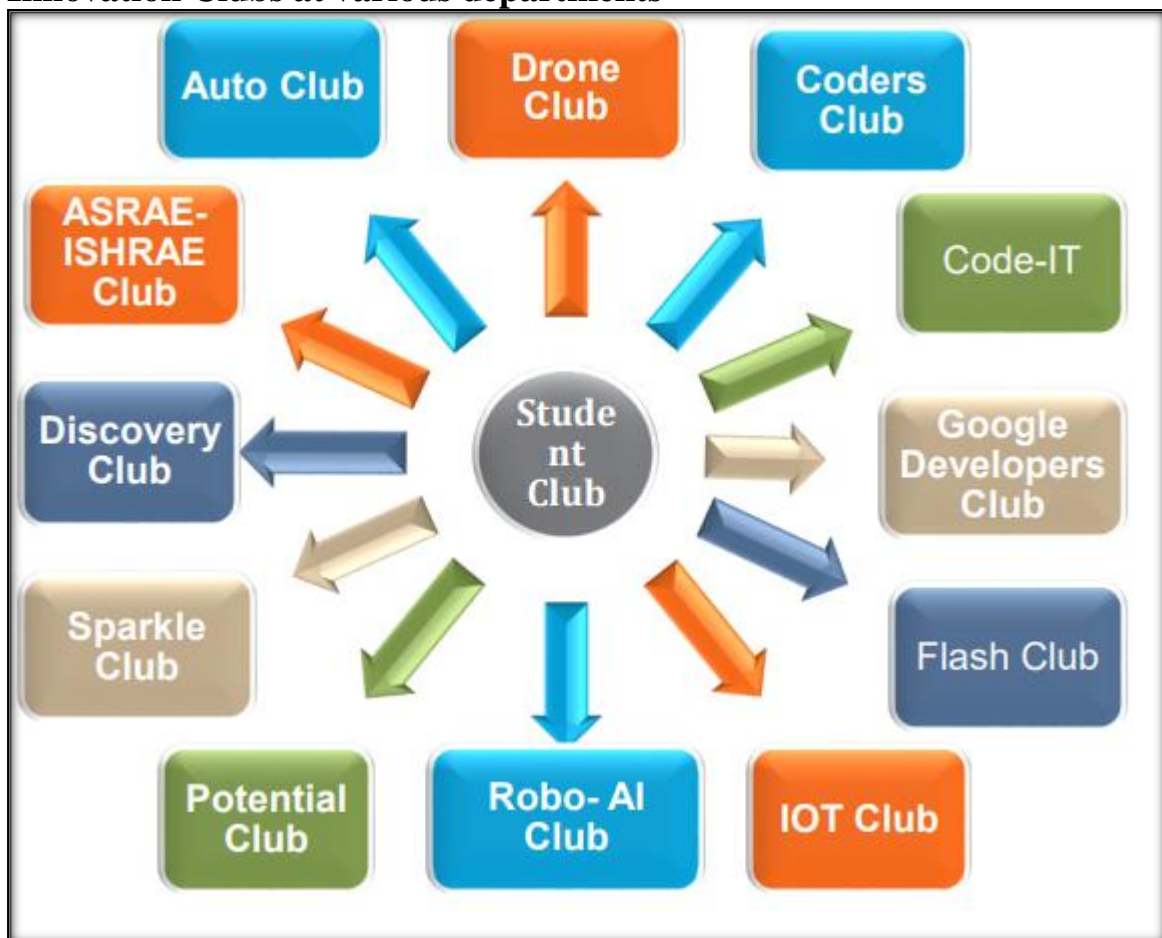
- Teachers adopt role play method especially in courses to supplement Teaching by way of participative learning.



## 2.2 Team work

- All Departments organize students activities to promote the spirit of Team work The club activities and Camp of NSS, institutional social responsibility through IEEE, Village Adoption, Tree plantation. Swatchh Bharat and Health awareness camp to help the students to learn Art of living in a team for Social and community welfare.

### Innovation Clubs at various departments







## SOCIAL CONTRIBUTION/OUTREACH PROGRAMS



Oxygen Audit during Pandemic



Hassle free procession during Pandemic

- Seven days camp in village Wadki, Tal. Purandar, Dist. Pune for social contribution.
- Blood donation
- Tree plantation
- Swaccha Bharat Abhiyaan
- Atmanirbhar Bharat
- Awareness programs on gender discrimination and women health
- Traffic management at Palkhi time
- Cloth and Food donation
- Visits and donation to orphanage



Tree plantation



Blood donation



- Techmanthan Technical event of institute.
- Antarnad (Annual Day)
- National days celebration / Festivals
- Fresher induction and farewell
- Social activities
- NSS
- Sports

### 2.3 Debates

- Debates: Debates are followed in many of the subjects where students are required to come with different opinions, thought processes thus the learning process gets justified in the argue-mental way of learning.

### 2.4 Group work

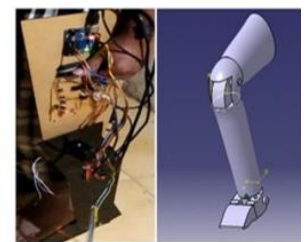
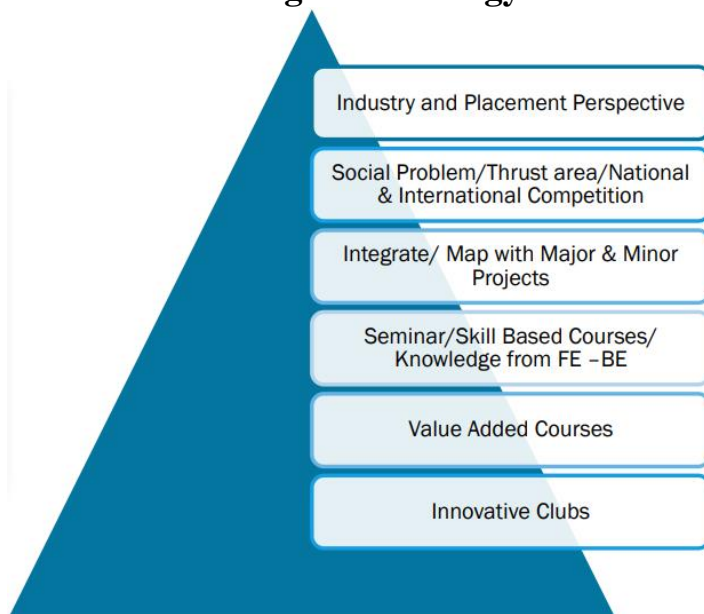
- Practicals and workshops in all individual and group work under the guidance of teachers are also conducted.



## CFD (Computational Fluid Dynamics)

### 35 Hrs Training Program for TE Mechanical Students

### 3. Problem solving Methodology



#### 3.1 Case studies

- Case study method is adopted in teaching learning process to make the students have logical thinking and practical knowledge to develop problem solving ability. This is commonly adopted in management programmes as well as while teaching Business law, cyber laws etc.

#### 3.2. Analysis and Reasoning

- All questions in examination are based on analysis and reasoning.
- Free internet access in the library and wifi facilities in campus promotes the habit of self learning and discussion.

#### 3.3 Discussion

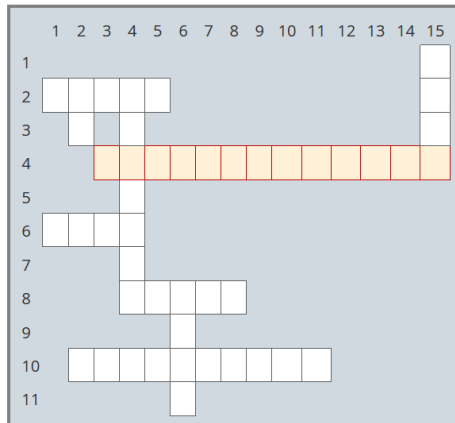




- University follows the discussions methods in many of the subjects as it makes the students to think wide and participate in coming up with the opinions & suggestions to check their current knowledge. Discussions are held basically in soft skills, managerial communications, business adoptions etc.

### 3.4 Quizzes / Crosswords

- Quizzes are conducted by subject teachers in all UG and PG programmes.



Check crossword    End of crossword game    Print

.....

Across, 13 letters.

Rotor of a variable reluctance stepper motor is constructed of \_\_\_\_\_ material with salient poles.

OK    Cancel

Across

2:

Single-phase motors have a unique rotating magnetic field like multi-phase motors. [TRUE/FALSE]

### Crosswords activity Conducted for SE [E&TC] students

### 3.5 Research Activities

- Research activities are conducted in each Department under the guidance of senior faculty where the students of different semester get knowledge about emerging area and help them to promote in Research



**Student Drone Startup  
“Cerebro Spark Innovation LLP” Startup  
Initiated by Institute in 2020**



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**“Ayush Start-up challenge” 1<sup>st</sup> Place winner in Ayush Bio-Instrumentation Category by the auspicious hands of Prime Minister Hon. Narendra Modi Ji. In presence of Prime Minister of Mauritius Shri Pravind Kumar Jugnauth, Director General WHO Dr. T. A. Ghebreyesus 2022**