Permanently Affiliated to Savitribal Phule Pune University Vide Letter No: CA/1542 & Approved by AICTE New Delhi Vide Letter No: 740-89-32 (E) ET/98 AISHE Code - C-41622

# **Mechanical Engineering Department**

Academic Year – 2020-21	Class: TE DIV. A
Semester – I	Date: 18/07/2020
Subject: Theory of Machines-II	
CO: CO1	PO: PO1

### **Innovative Teaching Methods**

**Title of Innovation method/activity:** Innovative Teaching Learning Method: Cross word Puzzle activity

1. Name of Faculty: Mr.D.D.Kulkarni

2. Subject: Theory of Machines-II

3. Objective of Method:

- 1. To understand the concept of Gear.
- 2. To evaluate the perception of the students

### 4. Topic Covered through Activity:

Spur Gear

## 5. Description of method with Benefits (8 - 10 lines):

The crossword puzzle is a teaching tool and an active learning strategy. A crossword is a word puzzle that usually takes the form of a square or a rectangular grid of white and black-shaded squares. The game's goal is to fill the white squares with letters, forming words or phrases, by solving clues, which lead to the answers.

#### Benefits of method:

- It gives great satisfaction and confidence
- It helps students to get instant feedback.
- It enhances skills like reasoning, problem-solving and developing solutions.
- It helps focus attention and engage students.
- It helps teacher to collect on spot formative assessment.

## The method:

With the help of this method students have shown that word search and other puzzles can help improve memory, focus, vocabulary, and overall mental acuity.

# **Roles and Responsibilities**

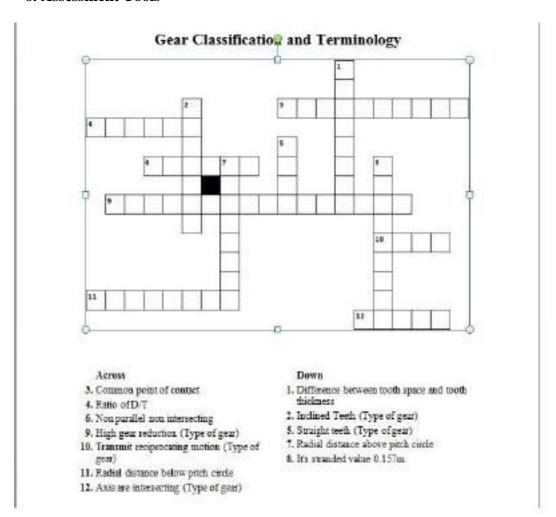
### **Teacher**

- Teacher has to prepare questionnaire consist of MCQs.
- Teacher has to explain the method to the students in detail.

### Student

- Students have to solve the puzzle
- Student need to spell the words correctly.
- The student has to accurately fill in all the blank squares with letters those form words or answer.

## 6. Assessment Tools

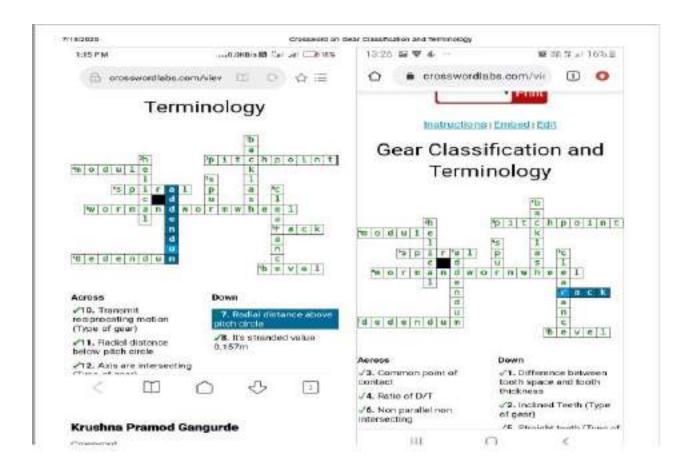


### 7. Evaluation sheet of attendee

7. Eval	uation sheet of attendee	
Roll	Name of Student	crossword
No.		puzzle
		marks
1	ABHANG VISHVAJEET RAMDAS	AB
2	ADOLE GIRISH PANDURANG	12
3	AHER PRERANA BHAUSAHEB	12
4	AHIRE SHUBHAM BALCHANDRA	12
5	AHIRRAO ABHISHEK MAHENDRA	AB
6	AMBEKAR KRISHNA SANJAY	12
7	AMRUTKAR ATHARVA PRAMOD	12
8	AVHAD ABHISHEK ANIL	AB
9	AVHAD PRASAD SANTOSH	12
10	BADGE PARAG SUNIL	12
11	BAIRAGI PRIYA NARAYANDAS	12
12	BAVISKAR SIDDHI VIKAS	12
13	BHALEKAR YASH KIRAN	12
14	BHALERAO RAJ AJAY	12
15	BHAMARE VIVEK ANIL	12
16	BHANGARE PRAMILA SUBHASH	12
17	BHOSALE HARSHAL SAMBHAJI	AB
18	BODKE PRAJWAL DIPAK	AB
19	BODKE YASH SHIVAJI	12
20	BONDE CHETAN MOHAN	12
21	BORSE MAYUR SANJAY	AB
22	BRAHMANKAR TEJAS SOMNATH	12
23	BUWA ANIRUDDHA SANJAY	AB
24	CHANDWADKAR ASHUTOSH SANTOSH	12
25	CHAUDHARI ABHISHEK SATISH	12
26	CHAUDHARI ANUJA NITIN	12
27	CHAUDHARI PRATIK KANHAIYALAL	12
28	CHAUDHARI UMESH SANJAY	12
29	CHAVAN RUTUJA VILAS	12
30	CHOPDA YASH RAJESH	12
31	DANGARE SAURABH BALASAHEB	12
	DAWANGE SATISH TRAMBAK	12
32	DEORE CHIRAG MADHUKAR	AB
33	DESHMUKH PRATHMESH RAVINDRA	12
34	DHANAIT SACHIN MADHAVRAO	12
35	DHANWATE ASHWINI BHAUSAHEB	12
36		
37	DHOMSE RUSHIKESH PRAKASH	12
38	GAIKWAD NINAD AVINASH	12
39	GAIKWAD SHRIKANT ANIL	12
40	GANGURDE KRUSHNA PRAMOD	12
41	GHOLVE SACHIN BABAN	12
42	HARAK SUSHANT ARUN	12
43	HATKAR VAIBHAV MADHUKAR	AB
44	JADE SHWETA SANJAY	AB

45	JADHAV ANIRUDDHA DILIP	12
46	JADHAV PRAJAKTA UTTAM	12
47	JADHAV TRUPTI SANJAY	12
48	JANGLE RAHUL DNYANESHWAR	12
49	JOSHI DHRUV HEMANT	AB
50	JOSHI SIDDHARTH NITIN	AB
51	KADAM PRATHAMESH PARASHARAM	12
52	KADAM SANDESH SURESH	12
53	KALE SATISH GANPAT	12
54	KAPADNIS NIKITA YADAV	12
55	KHAIRNAR SWAPNIL DEVIDAS	12
56	KOLHE MAYURESH VISHNU	12
57	LODAWARA CHIRAYU JAGDISH	12
58	LOHAKANE VEDANT ASHOKRAO	12
59	MAHALE HARDIK SUBHASH	12
60	MAHALE SHRUTI RAJESH	12
61	MAHATME OM KIRAN	12
62	MEDHANE AKSHAY NITIN	12
63	METKAR SHANTANU HEMANT	AB
64	MHASKE SHREYAS BHALCHANDRA	AB
65	BADHE NIKHIL LALIT	12
66	BHADAGE RITIK PRASHANT	12
67	CHAUDHARI CHINMAY PRASHAT	12
68	DESALE AAYUSH DEEPAK	12
69	DHOTRE SATISH SURESH	12
70	GANGURDE ROHIT NARENDRA	12
71	GANGURDE SARTHAK SUBHASH	AB
72	KATHE VINAMRA ANIL	AB
73	NIKHIL CHAVAN	AB

# 8. Activity Picture



9. For review and critique contact: e-mail address of faculty and HOD kulkarni.darshan@kbtcoe.org, hod.mech@kbtcoe.org

Prof. D. D. Kulkarni Subject In charge

Dr. A.B.Kakade **NBA** Coordinator

Dr. S. P. Mogal Module Coordinator

Dr. V.C.Shewale HoD