



Mechanical Engineering Department

Academic Year: 2019-20

Class: Final Year Semester: II

Course Outcome: CO1, CO2

Programme Outcome: PO1, PO2

Innovative Teaching Method

Title of Innovative teaching method: Crossword Puzzle

- 1. Name of faculty:** Mr. R. S. Thakare
- 2. Subject:** Energy Engineering (C407)
- 3. Objective of method:**
 - I. To increase technical vocabulary of students
- 4. Topic covered through activity:** Basics of powerplant and details about thermal power plant
- 5. Description of method with benefits**

Students are advised to solve crossword puzzle on power plants. Hints of puzzle are based on knowledge of powerplant as per scope of syllabus

Benefits:

- I. It will increase vocabulary of students
- II. It will help students to introduce students to different parts of power plant

6. Roles and responsibilities:

Teacher

- I. Introduce basic aspects of powerplant to students theoretically
- II. Ask them to go through virtual power plant visit to know more about different parts of power plant
- III. Provide crossword puzzle to students
- IV. Provide crossword puzzle to students and also provide marks after assessment of crossword

Teacher

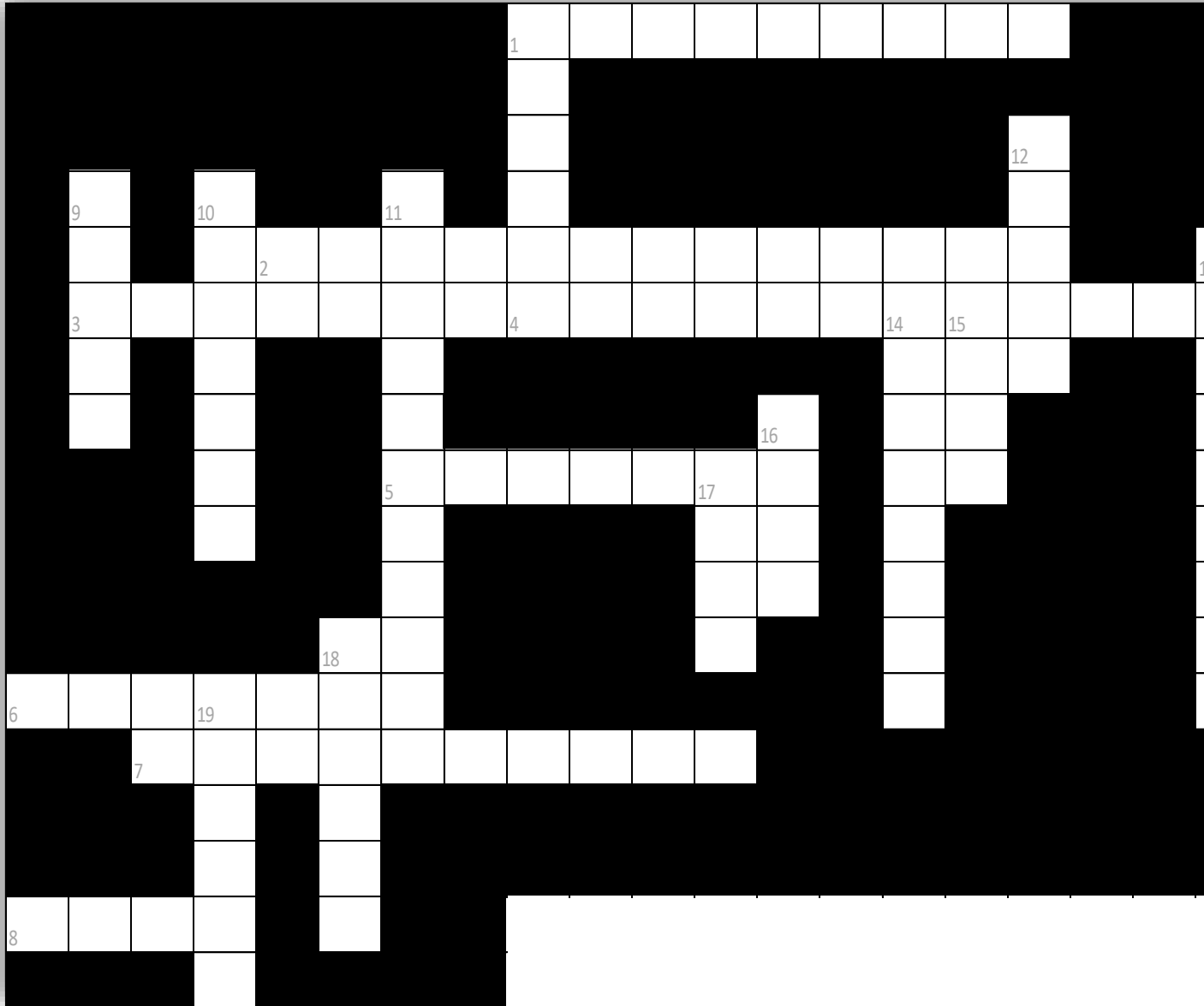
- I. Understand basics of power plant and different essential parts of power plant and go through virtual industrial visit
- II. Attempt crossword puzzle and submit hard copy to subject teacher



7. Assessment tools:

Assessment of following crossword puzzle will be done. Correct answer of each hint will give 1 mark.

CROSS WORD PUZZLE ON POWER PLANTS



(CLUES ARE ON NEXT PAGE)

NAME-	
ROLL NO-	
DIVISION-	
SUBJECT-	



MARATHA VIDYA PRASARAK SAMAJ'S
KARMAVEER ADV. BABURAO GANPATRAO THAKARE
COLLEGE OF ENGINEERING



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ACROSS	DOWN
1. EQUIPMENT WHERE STEAM LOSSES HEAT	1. THIS IS MADE FROM ANCIENT PLANT MATERIAL AND GIVES COAL MOST OF ITS ENERGY.
2. ONE OF THE POLLUTANT BECAUSE OF INCOMPLETE COMBUSTION	9. THE DIFFERENCE BETWEEN ATMOSPHERIC PRESSURE AND THE PRESSURE EXISTING IN THE FURNACE
3. RAIN THAT HAS TURNED ACIDIC BECAUSE OF POLLUTION IN THE AIR (2 WORDS)	10. EQUIPMENT THROUGH WHICH RESIDUAL BURNT GASES ARE EXPELLED OUT
4. RESOURCES THAT ARE NOT REPLACEABLE AFTER THEY HAVE BEEN USED UP AND NEED TO BE CONSERVED.	11. A DEVICE THAT CHANGES ELECTRICITY FROM ONE VOLTAGE TO ANOTHER VOLTAGE
5. IN A POWER PLANT, IT'S WHERE COAL IS BURNED	12. WATER IN A GAS PHASE
6. PRACTICALLY EVERY FORM OF ELECTRIC POWER IS GENERATED USING THIS TYPE OF ENGINE	13. DEVICE WHICH CONVERTS MECHANICAL ENERGY INTO ELECTRIC ENERGY
7. AN ELECTRIC UTILITY GENERATING STATION. (2 WORDS)	14. TOTAL HEAT CONTAINED BY BODY
8. CARBON FUEL PRODUCED BY DISTILLATION OF COAL.	15. A UNIT OF ELECTRIC POWER, EQUAL TO ONE JOULE OF WORK PER SECOND, AND NAMED AFTER AN INVENTOR
	16. ENERGY THAT IS TRANSFERRED FROM ONE BODY TO ANOTHER AS A RESULT OF DIFFERENCE IN TEMPERATURE
	17. A MINERAL THAT LOOKS LIKE A SHINY BLACK ROCK. IT'S FORMED FROM PLANTS THAT WERE ONCE ALIVE
	18. THE ABILITY TO DO WORK.
	19. SEALED VESSEL IN A POWER PLANT WHERE WATER IS CONVERTED TO STEAM.



8. Evaluation sheet of Attendee

Roll No.	Name of Student	Marks (20)	Target Level
69	KOKATE SHUBHAM NIRANJAN	20	Y
73	KUWAR PRADIP DNYANESHWAR	20	Y
74	LANDE ANUJA SOPAN	20	Y
75	MAHAJAN SHUBHAM RAJENDRA	20	Y
76	MAKWANA PARTHKUMAR SUBHASHBHAI	20	Y
77	MISAR AKASH EKNATH	20	Y
78	MISHRA YOGESH DEEPCHANDRA	20	Y
79	MORE AMEY DILEEP	20	Y
80	MORE MAYUR VINOD	20	Y
82	NAKRANI PARTH NANDLAL	20	Y
83	NEMADE TARUSH PRABHAKAR	20	Y
86	NIKAM TEJAL RAMESH	20	Y
87	NIKUMBH RUSHIKESH SURESH	20	Y
91	PATALPURE GANESH MADHUKAR	20	Y
93	PATIL DARSHANESH RAJESH	20	Y
94	PATIL GAURANG SUNIL	20	Y
96	PATIL MANOJ GOKUL	20	Y
97	PATIL TEJAS RAVINDRA	20	Y
99	PAWAR OMKAR SANJAY	20	Y
100	PAWAR SHREYA KASHINATH	20	Y
106	KEDAR ROSHAN BHAUSAHEB	20	Y
108	SAGAR BHUSHAN SUNIL	20	Y
110	GOND SANTOSH RAJENDRA	20	Y
115	SHIMPI VRUSHABH JITENDRA	20	Y
116	SHINDE GAURAV BHAGWAT	20	Y
118	PARAKH SHITANSH JITENDRA	20	Y
124	TAKTE KARAN PRAKASH	20	Y
125	THAKARE JANMESH DEVIDAS	20	Y
127	THAKUR PADMAKSHI MAHENDRA	20	Y
129	WANDRE MUKUL JAGDISH	20	Y
Number of students appeared for the exam			30
Target value			12
Number of Students scoring more than target value			30
Percentage of Students scoring more than target value			100
Target Level			3

9. For review and critique contact: thakare.rahul@kbtcoe.org hod.mech@kbtcoe.org

Mr. R. S. Thakare
Subject Teacher

Dr. S. B. Sonawane
Module Coordinator

Dr. A. B. Kakade
NBA Coordinator

Dr. V. C. Shewale
Head of Department