



**INTERNAL QUALITY ASSURANCE CELL (IQAC)**

**Implementation details of Innovative Teaching Practices**

<b>Year / Semester / Section:IV/VIII</b>	<b>Degree &amp; Branch:B.E&amp;CSE</b>
<b>Course Code:GE8076</b>	<b>Course Name: Professional Ethics in Engineering</b>
<b>Unit: II</b>	<b>Topic: Self-interest ,Customs and Religion,Uses of Ethical Theories.</b>
<b>Activity Chosen: Crossword Puzzle</b>	

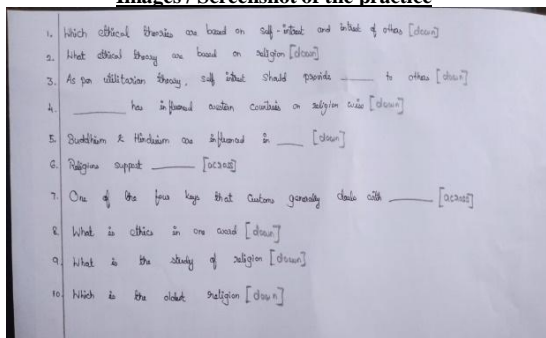
**Details of the Implementation:**

<https://www.britannica.com/topic/crossword-puzzle>

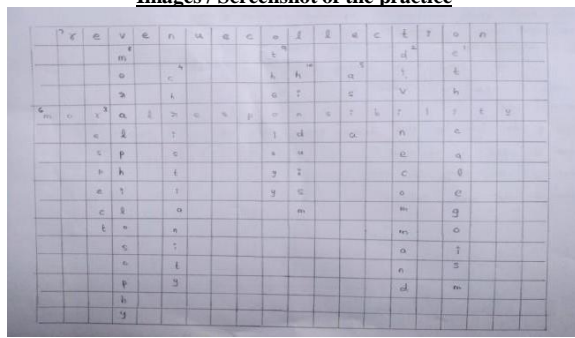
- Crossword puzzle, popular form of word puzzle.
- A crossword puzzle consists of a diagram, usually rectangular, divided into blank (white) and cancelled (black, shaded, or crosshatched) squares. This diagram is accompanied by two lists of numbered definitions or clues, one for the horizontal and the other for the vertical words, the numbers corresponding to identical numbers on the diagram. Into each of the blank squares of the diagram a certain letter of the alphabet is to be inserted, forming the words fitting the numbered definitions or clues. The words cross each other, or interlock, which gives the puzzle its name.
- The activity was conducted in a classroom for a duration of 20 minutes. The students were given a crossword puzzle of 10 questions in a paper. They have to think and provide the answers in the given puzzle. The students answered the questions as shown in figure 2, 3 and 4. Sample questions and answers were shown in figure 1.
- The answers for the wrong questions were discussed immediately to make them know the answer of all the questions.

PO	PO6	PO7	PO8	PO9	PO10	PO12
<b>Relevance</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>3</b>

**Images / Screenshot of the practice**



**Images / Screenshot of the practice**



**Benefit of the practice:**

- Outcome attainment would have increased due to innovative practice over conventional practice
- From that we can find out that, most of the students had familiarity with the uses of Ethical Theories- Relating professional and ordinary morality.

**Signature of Faculty Member**

**HOD**

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## Implementation details of Innovative Teaching Practices

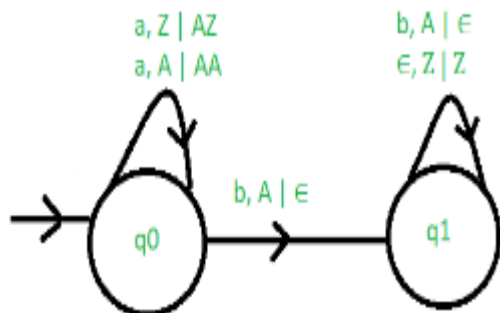
<b>Year / Semester / Section:</b> III/V/ A & B	<b>Degree &amp; Branch:</b> B.E & CSE
<b>Course Code:</b> CS8501	<b>Course Name:</b> Theory of Computation
<b>Unit:</b> III	<b>Topic:</b> Definition of the Pushdown Automata
<b>Activity Chosen:</b> Crossword Puzzle	

### Details of the Implementation:

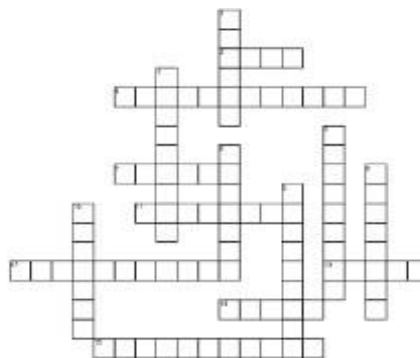
- A crossword puzzle on the topic “Pushdown Automata” was created based on the previous class discussion about the same topic.
- Individual Crossword puzzle sheets were distributed to each student.
- The students solved the puzzle in the first 15 minutes of the class.
- The puzzle sheets were collected and evaluated by other group members.
- Faculty records their proceedings and measures students’ progress before and after implementation

PO	PO1	PO2	PO3	PO6	PO8	PO9	PO10	PO12	
<b>Relevance</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	

Images / Screenshot of the practice	



### Images / Screens hot of the practice



### Across

2. node of the tree is labelled by start  
4. theorem which talks about a typical property of CFG  
7. an algorithm which is represented as Turing machine  
11. the finite \_\_\_\_\_ is a mathematical model of system

12. pumping lemma is called
  13. list which has last in first out
  14. the machine in which output is associated with each state
  15. grammar having single Vn on LHS
- Down**
1. it is mathematical model of computer

3. CFG which exist two or more parse tree
5. derivation of production only to rightmost variable
6. grammar is of the form  $A \rightarrow BC, A \rightarrow a$
8. the grammar is of the form  $A \rightarrow a^*$
9. derivation tree are:
10. elimination of production in form  $x \rightarrow y$

**Benefit of the practice:** Through Crossword puzzles, students will be able to understand the concept of PushDown Automata.