



<b>KBPCOES</b>	<b>INNOVATIVE ACTIVITY</b>	DOC NO.: KBPCOES/ACD/F/05-00-08
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<b>Program / Department:</b> Electronics & Telecommunication Engineering	<b>Class:</b> SY	<b>Semester:</b> III	<b>Div:</b> A
<b>Course:</b> Electronic Devices and Circuits	<b>Course Code:</b> 25AF1372PC302	<b>Course Coordinator:</b> Dr. Sunita V. Mane	

### Innovative Pedagogical Activities

#### Crossword puzzles:

Crossword puzzles provide expansion of vocabulary, stimulate thinking capacity, boost confidence, and fasten up the learning capacity. Crossword puzzle, as an innovative teaching module, was introduced in our set up for wave propagation study. Student's perceptions of the use of crossword puzzle, as an active learning instructional tool, were gathered by using a pre-validated questionnaire. A majority of the student's found that the crossword puzzle enhanced their learning of the topic. It promotes enhancement of cognitive/mental skill as well as attitude of the learner. This tool promotes self-learning, provides a recreational break during the traditional lecture class, and allows the students to review the lecture material as well as examination. Thus, crossword puzzles are a creative tool whose proper implementation definitely has positive impact on the student's skills and performances.

SE E&TC (Academic Year → 2025-26)

PRN: 24062701372059  
 Name: Mohamad Anis Jamal Shaikh

### Crossword Puzzle on BJT and FET

**Across**

3. BJT region having largest area

6. Heavily doped region of BJT

8. Application of BJT

10. Both the voltage gain and current gain are greater than 1 in \_\_\_\_\_ configuration

13. BJT acts as ON switch in \_\_\_\_\_ region

**Down**

1. Voltage gain is less than 1 in \_\_\_\_\_ configuration

2. WW. \_\_\_\_\_ terminal of FET/MOSFET is similar to emitter in BJT

4. BJT acts as OPEN switch in \_\_\_\_\_ region

5. Passes AC and blocks DC

7. For increasing gain in amplifier, the method used is---

9. Voltage controlled device

11. Current controlled device

12. WW. \_\_\_\_\_ terminal of FET/MOSFET is similar to collector in BJT

SY E&TC (Academic Year → 2025-26)

PRN: \_\_\_\_\_  
 Name: Bhargavi Anand Mestry

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**Dr. Sunita V. Mane**  
 Course Coordinator

**HOD**