



Rayat Shikshan Sanstha's  
Karmaveer Bhaurao Patil College of Engineering Satara

**Department of Mechanical Engineering**

## **Program Coordinator's Activity Report**

Title of the program- Cross word Puzzle Activity on Finite Element Method

Date- 26<sup>th</sup> March 2025

Location : T.Y. Class Room F-84, KBPCoES at 12.00 noon

Name of program coordinator- Mr. Aamir. M. Shaikh

Designation & department- Assistant Professor, Mechanical Engineering Dept.

**Content in brief-** 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 goal is to fill the white squares with letters, forming words or phrases that cross each other, by solving clues which lead to the answers. The activity for the topic of introduction to FEM was designed to enhance student engagement and understanding in class room.

### **Objective:**

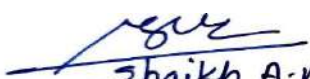
Students are expanding vocabulary, stimulating logical thinking, improving retention of knowledge and association of concepts

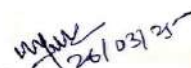
Beneficiary – UG students

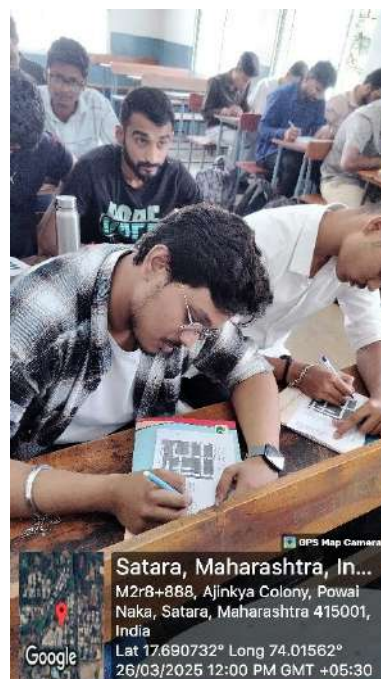
Total no. of participants- 43

Activity Conducted by - Mr. Aamir. M. Shaikh

The crossword puzzle approach for the Finite Element Method course was successful in achieving its objectives. It adopted a dynamic learning environment where students actively engaged with the material. The approach also empowered students to take charge of their learning and collaborate with peers, enhancing both conceptual understanding and problem-solving skills.

  
Signature of Coordinator

  
Signature of HOD



Crossword Puzzle Activity on 26-03-2025 to understand the concept of Finite Element Method



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**Karmaveer Bhaurao Patil College of Engineering, Satara**

**Academic Year: 2024-2025 (II) Even Sem**

Program: **Mechanical Engineering 62702**

Class: **T.Y. B Tech**

Course/ Subject: **Elective IV: Finite Element Method [BTMPE 604C]**

**Active learning: Crossword Puzzle activity Attendance**

Course coordinator: **Aamir M. Shaikh**

Date: **26-03-2025**

| SR. NO. | Roll No.        | NAME OF STUDENT            | Sign | Remark |
|---------|-----------------|----------------------------|------|--------|
| 1       | TY/Mech/2024/1  | BHOSALE SANIKA HEMANT      |      |        |
| 2       | TY/Mech/2024/2  | KANASE SAHIL DATTARAM      |      |        |
| 3       | TY/Mech/2024/3  | SANKPAL SUPRIT RAJENDRA    |      |        |
| 4       | TY/Mech/2024/4  | RAJE SOHAM MAHESH          |      |        |
| 5       | TY/Mech/2024/5  | GIRIGOSAVI PRERANA PRAKASH |      |        |
| 6       | TY/Mech/2024/6  | SAWANT SUDARSHAN NANDKUMAR |      |        |
| 7       | TY/Mech/2024/7  | MANE PRANAY PANDURANG      |      |        |
| 8       | TY/Mech/2024/8  | GHADGE VIBHUTI CHANDRAKANT |      |        |
| 9       | TY/Mech/2024/9  | BAMANE PRACHI RAVINDRA     |      |        |
| 10      | TY/Mech/2024/10 | PAWAR OM VILAS             |      |        |
| 11      | TY/Mech/2024/11 | GHORPADE RAJAT RATAN       |      |        |
| 12      | TY/Mech/2024/12 | SHARMA NIKHIL SANJAY       |      |        |
| 13      | TY/Mech/2024/13 | PAWAR ATHARV SHARAD        |      |        |
| 14      | TY/Mech/2024/14 | MANE SUCHITA SUNIL         |      |        |
| 15      | TY/Mech/2024/15 | KADAM SOHAM VIJAY          |      |        |
| 16      | TY/Mech/2024/16 | SALUNKHE TANAYA SUNIL      |      |        |
| 17      | TY/Mech/2024/17 | SALUNKHE AJINKYA BALIRAM   |      |        |
| 18      | TY/Mech/2024/18 | SHAIKH SOHEL ARIF          |      |        |
| 19      | TY/Mech/2024/19 | CHAVAN SANJANA MAHESH      |      |        |
| 20      | TY/Mech/2024/20 | GHADGE SOMNATH PARSHURAM   |      |        |
| 21      | TY/Mech/2024/21 | KADAM SAKSHI UTTAM         |      |        |
| 22      | TY/Mech/2024/22 | SHEDBALKAR MOHAMMAD HUSEN  |      |        |
| 23      | TY/Mech/2024/23 | MANE ADITYA VITTHAL        |      |        |
| 24      | TY/Mech/2024/24 | MANKAR SHREYASH JAYWANT    |      |        |
| 25      | TY/Mech/2024/25 | JAGDALE NIKITA DIPAK       |      |        |
| 26      | TY/Mech/2024/26 | SALUNKHE VINAY SATISH      |      |        |
| 27      | TY/Mech/2024/27 | BODHE SHRIRAM ARVIND       |      |        |

26-3-25  
Course coordinator: **Aamir M. Shaikh**



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Academic Year: 2024-2025 (II) Even Sem

Program: Mechanical Engineering 62702

Class: T.Y. B Tech

Course/ Subject: Elective IV: Finite Element Method [BTMPE 604C]

**Active learning: Crossword Puzzle activity Attendance**

Course coordinator: Aamir M. Shaikh

Date: 26-03-2025

| SR. NO. | Roll No.        | NAME OF STUDENT             | Sign | Remark |
|---------|-----------------|-----------------------------|------|--------|
| 28      | TY/Mech/2024/28 | INGALE RUDRA PARAG          |      |        |
| 29      | TY/Mech/2024/29 | JAGTAP SURAJ HANMANT        |      |        |
| 30      | TY/Mech/2024/30 | KUMBHAR OMKAR SANTOSH       |      |        |
| 31      | TY/Mech/2024/31 | JADHAV VAIBHAV NATISH       |      |        |
| 32      | TY/Mech/2024/32 | KOLI VISHAL BAJRANG         |      |        |
| 33      | TY/Mech/2024/33 | LOHAR SHUBHAM SURESH        |      |        |
| 34      | TY/Mech/2024/34 | MANE TEJAS AJAY             |      |        |
| 35      | TY/Mech/2024/35 | YADAV ANIKET ASHOKRAO       |      |        |
| 36      | TY/Mech/2024/36 | TUPE PRASANNA DINESH        |      |        |
| 37      | TY/Mech/2024/37 | KAKADE ADITYA SANJAY        |      |        |
| 38      | TY/Mech/2024/38 | KAMALAKAR ABHISHEK SATISH   |      |        |
| 39      | TY/Mech/2024/39 | TAPASE DURVESH VISHNU       |      |        |
| 40      | TY/Mech/2024/40 | RENUSE SOHAM NANDKUMAR      |      |        |
| 41      | TY/Mech/2024/41 | BHOSALE PRANAV DILIP        |      |        |
| 42      | TY/Mech/2024/42 | GAIKWAD ADITYA NAVNATH      |      |        |
| 43      | TY/Mech/2024/43 | JADHAV MAYUR SUBHASH        |      |        |
| 44      | TY/Mech/2024/44 | KUDAVE CHITRA SUBHASH       |      |        |
| 45      | TY/Mech/2024/45 | JADHAV SOHAM SACHIN         |      |        |
| 46      | TY/Mech/2024/46 | RAJAGE ROHIT VITTHAL        |      |        |
| 47      | TY/Mech/2024/47 | SOLASKAR SATYAJEET PRASHANT |      |        |
| 48      | TY/Mech/2024/48 | INGALE KARAN SANJAY         |      |        |
| 49      | TY/Mech/2024/49 | GONJARI PRASAD VINOD        |      |        |
| 50      | TY/Mech/2024/50 | KHULPE SHIVAM               |      |        |
| 51      | TY/Mech/2024/51 | BHOSALE OM YUVARAJ          |      |        |
| 52      | TY/Mech/2024/52 | CHOUGULE SHUBHAM UMESH      |      |        |
| 53      | TY/Mech/2024/53 | ABHIJEET MANOHAR            |      |        |
| 54      | TY/Mech/2024/54 | THOMBARE AMAR MARUTI        |      |        |

Course coordinator: Aamir M. Shaikh

26-3-25



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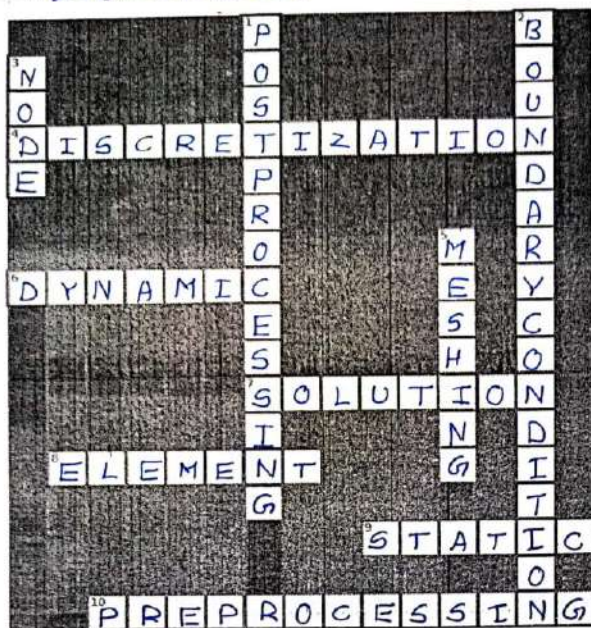
**Samples**

**Crossword Puzzle on Finite Element Method (BTMPE 604C)**

Name of Student: Raje Sobam Mahesh

Date: 26/3/25

PRN: 22627016/2006



- Across
4. The process of dividing the body into an equivalent number of finite elements
  6. that causes movement in FEM
  8. solved the system of equations
  10. connect all characteristic points
  12. Not moving case on FEM
  14. First step in FEA

- Down
1. provides visualization of the computed results
  3. constraints necessary for the solution of a boundary value problem.
  5. A \_\_\_\_\_ is simply a point in space, defined by its coordinates
  7. \_\_\_\_\_ is the process of turning irregular shapes into more recognizable volumes

**Crossword Puzzle on Finite Element Method (BTMPE 604C)**

Name of Student: Pawar Atharv Shorad

Date: 26/03/25

PRN: 22627016/2020



- Across
4. The process of dividing the body into an equivalent number of finite elements
  6. that causes movement in FEM
  8. solved the system of equations
  10. connect all characteristic points
  12. Not moving case on FEM
  14. First step in FEA

- Down
1. provides visualization of the computed results
  3. constraints necessary for the solution of a boundary value problem.
  5. A \_\_\_\_\_ is simply a point in space, defined by its coordinates
  7. \_\_\_\_\_ is the process of turning irregular shapes into more recognizable volumes