# Department of Computer Technology

### Vision of the Department

To be a well-known centre for pursuing computer education through innovative pedagogy, value-based education and industry collaboration.

### Mission of the Department

To establish learning ambience for ushering in computer engineering professionals in core and multidisciplinary area by developing Problem- solving skills through emerging technologies**.**

## Session 2025-2026

**Mission:** Means to achieve Vision

**Vision:** Dream of where you want.

**Program Educational Objectives of the program (PEO):** (broad statements that describe the professional and career accomplishments)

|  |  |  |  |
| --- | --- | --- | --- |
| PEO1 | **Preparation** | **P: Preparation** | **Pep-CL abbreviation**  **pronounce as Pep-si-lL easy to recall** |
| PEO2 | **Core Competence** | **E: Environment (Learning Environment)** |
| PEO3 | **Breadth** | **P: Professionalism** |
| PEO4 | **Professionalism** | **C: Core Competence** |
| PEO5 | **Learning**  **Environment** | **L: Breadth (Learning in diverse areas)** |

**Program Outcomes (PO):** (statements that describe what a student should be able to do and know by the end of a program)

## Keywords of POs:

Engineering knowledge, Problem analysis, Design/development of solutions, Conduct Investigations of Complex Problems, Engineering Tool Usage, The Engineer and The World, Ethics, Individual and Collaborative Team work, Communication, Project Management and Finance, Life-Long Learning

**PSO Keywords:** Cutting edge technologies, Research

“I am an engineer, and I know how to apply engineering knowledge to investigate, analyse and design solutions to complex problems using tools for entire world following all ethics in a collaborative way with proper management skills throughout my life.” *to contribute to the development of cutting-edge technologies and Research*.

**Integrity:** I will adhere to the Laboratory Code of Conduct and ethics in its entirety.

## Name and Signature of Student and Date

(Signature and Date in Handwritten)

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| --- | --- | --- | --- |
| **Session** | **2025-26 (ODD)** | **Course Name** | **PE-I - Geo-Intelligence for Smart IoT Devices Lab** |
| **Semester** | **5** | **Course Code** | **23IOT1523** |
| **Roll No** |  | **Name of Student** |  |

|  |  |
| --- | --- |
| Practical Number |  |
| **Course Outcome** | Apply and demonstrate the use of proprietary and open-source GIS tools (e.g., QGIS) for creating, visualizing, and managing spatial datasets. |
| Aim | Collect real time coordinates (5–10 points) using Google Earth and import into QGIS. |
| Problem Definition | Collect any real time coordinates (5–10 points) based on theme of your choice using Google Earth and import into QGIS. |
| Theory (100 words) | **list of the top 10 museums in Maharashtra:**   1. Chhatrapati Shivaji Maharaj Vastu Sangrahalaya, Mumbai 2. Dr. Bhau Daji Lad Museum, Mumbai 3. Raja Dinkar Kelkar Museum, Pune 4. Pune Tribal Museum, Pune 5. Nagpur Central Museum, Nagpur 6. Gargoti Mineral Museum, Sinnar (near Nashik) 7. Cavalry Tank Museum, Ahmednagar 8. Banjara Virasat Museum, Washim 9. Mahatma Phule Museum, Pune 10. Museums in Aurangabad (e.g., Chhatrapati Shivaji Maharaj Museum, History Museum) |
| Procedure and Execution  (100 Words) | Implementation Steps:  **Step to get the data**  **1 open the google earth**  **2 save the project of which we want make and add to the project**  **3 save the project in the kml file**  **4 go to the QGIS**  **5 add the open street map**  **6 add the vector data**  **Now data is shown on the map** |
| Stepwise Screenshots with steps: |
|  |  |
| Output Analysis | We collected 5–10 location points using Google Earth and saved them as a KML file. The file was imported into QGIS, where the points were visualized on a map with base layers. We customized the map by labeling points and analyzing distances between them. Finally, the map was saved and exported for use in planning or presentations. |
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| --- | --- |
| Github profile where lab assignment has  been uploaded |  |
| Conclusion | Collect real time coordinates (5–10 points) using Google Earth and import into QGIS. Is performed successfully |
| Plag Report (Similarity index < 12%) |  |
| Date | 2/09/25 |