# CMR ENGINEERING COLLEGE

UGC AUTONOMOUS

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**Ref: CMREC/EDC/Cir/07/2025** **Date: 22-09-2025**

## CIRCULAR

All the "Head of the Departments (HODs), and students are informed that an industrial visit to **National Geophysical Research Institute (NGRI)**, Hyderabad. The visit is arranged to give students practical knowledge and exposure to advanced geophysical research, scientific instruments, and real-world applications of engineering and earth sciences.

Students who are interested should give their names to their respected class coordinators on or before 24/09/2025. All students must carry their ID cards and follow the instructions given by the faculty members.

Further details will be shared soon.

**Visit Details:**
**Dates**: 26/09/2025
**Time:** 09:30am to 3:00pm
**Venue:** National Geophysical Research Institute (NGRI), Hyderabad

All HODs are requested to instruct the concerned faculty members to ensure that student participants attend the workshop without fail and make the event successful.

PRINCIPAL

Copy Submitted to:

1. Management file (MF)

| DEAN EDC | DEAN (Academics) | H&S | CSE | ECE | CSM | CSD | IT | AO |
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**REF: CMREC/EDC/MOM/08/2025** **Date: 25.10.2025**

# ENTREPRENEURSHIP DEVELOPMENT CELL

## MINUTES OF MEETING

**Agenda**

1. Planning of Industrial Visit to INCOIS, Hyderabad.
2. Finalization of student participation.
3. Transportation and logistics arrangements.
4. Budget approval and resource allocation.
5. Safety guidelines and visit protocols.
6. Documentation and reporting requirements.

**Proceedings**

The meeting commenced with a welcome address by the Convenor, Dr. Y. Sunita Rani. The agenda of organizing an Industrial Visit to the Indian National Centre for Ocean Information Services (INCOIS), Hyderabad, was discussed.

**Discussion Points**

- The objectives and expected learning outcomes of the industrial visit were explained to the members.
- Student participation from various departments was discussed and approved.
- Transportation arrangements and travel schedule were reviewed.
- Safety instructions and code of conduct for students during the visit were finalized.
- Faculty coordinators were assigned responsibilities for student management and coordination.
- Documentation requirements, including attendance, photographs, feedback forms, and visit reports, were discussed.
- The importance of preparing a post-visit report and presentation by participating students was emphasized.

**Resolutions**

1. The Industrial Visit to INCOIS, Hyderabad, was approved.
2. The visit is scheduled for **31 October 2025 at 9:30 AM**.
3. EDC Coordinators and Team EDC will oversee all arrangements related to the visit.
4. Student feedback will be collected after the visit for assessment and future improvements. .

**Members Present:**

The following members were present for the EDC meeting held on 23-09-2025:

| S.No | Name of the person | Positions | Designation | Signature |
|---|---|---|---|---|
| 1 | Dr. A. Srinivasula Reddy | Member | Principal & Chairman | |
| 2 | Dr. Yedhiri Sunita Rani | Member | Dean-EDC | |
| 3 | Dr. Somala Rama Kishore | Member | Dean -Academics | |
| 4 | Dr. K.V. Reddy | Member | HOD H&S | |
| 5 | Dr. Suman Mishra | Member | HOD ECE | |
| 6 | Dr. Sheo Kumar | Member | HOD CSE | |
| 7 | Dr. M. Laxmaiah | Member | HOD CSE-DS | |
| 8 | Dr. Madhavi Pingili | Member | HOD CSE-AI&ML | |
| 9 | Dr. E.Suresh Babu | Member | HOD IT | |
| 10 | Mr.Y.Srinivasareddy | Member | Assistant Professor , MECH | |
| 11 | Mrs.T. Jyothi | Coordinator | Assistant Professor , H & S | |
| 12 | Mrs.J. Kalpana | Coordinator | Assistant Professor , H & S | |
| 14 | Mr. B. Ramana | Coordinator | Assistant Professor , CSE | |
| 15 | Mrs.M.Anusha | Coordinator | Assistant Professor , CSE | |
| 16 | Mr.V.Kiran Kumar | Coordinator | Assistant Professor, CSE-DS | |
| 17 | Mrs.M.Srikala | Coordinator | Assistant Professor, CSE-AIML | |
| 18 | Mrs.B. Prashanthi | Coordinator | Assistant Professor, ECE | |
| 19 | Ms.N. Sravani | Coordinator | Assistant Professor, IT | |
| 20 | Mr.Samala Saiteja | Member | Alumni | |
| 21 | Mr. M. Pavan Kumar Reddy | Member | Industry Person | |

**DEAN EDC**

**PRINCIPAL**

| | | |
|---|---|---|
| **TITLE OF EVENT** | **:** | INCOIS–Indian National Centre for Ocean Information Services, Hyderabad**.** |
| **ORGANIZING COMMITTEE** | **:** | EDC TEAM |
| **DATE OF VISIT** | **:** | 31st October, 2025 |
| **VENUE** | **:** | INCOIS, Hyderabad |
| **NO OF PARTICIPANTS** | **:** | 130 |

**About INCOIS**

INCOIS is an autonomous organization under the Ministry of Earth Sciences (MoES) and functions as a unit of the Earth System Science Organization (ESSO). It is mandated to deliver reliable and timely ocean information and advisory services to the public, industry stakeholders, government bodies, and the scientific community. Its work is grounded in continuous ocean observations and focused research.

**Objective of the Industrial visit:**

1. To understand the functioning and objectives of INCOIS.
2. To gain exposure to real-time ocean data collection and analysis systems.
3. To observe the use of information technology, satellite communication, and data processing in ocean studies.
4. To enhance students' knowledge about research and development in ocean information services.

**Activities and Observations**

During the visit, students had the opportunity to:

- **Presentation and Orientation:**
  The visit began with an introductory session by INCOIS scientists and engineers who explained the organization's mission, research areas, and operational structure.
- **Ocean Observation Systems:**
  Students learned about various ocean observation systems such as **ARGO floats, wave rider buoys, tide gauges, and moored buoys** used for collecting oceanographic and meteorological data.

**Data Processing & Modelling:**
The team demonstrated how data from satellites and sensors are processed to generate forecasts for **tsunamis, ocean state, and potential fishing zones**.

- **Tsunami Early Warning Centre:**
  A major highlight was the visit to the **Tsunami Early Warning Centre**, where students observed real-time monitoring systems that track seismic activities and issue alerts for coastal safety.
- **Software and Technology:**
  The experts explained the use of **GIS (Geographic Information System)**, **remote sensing**, and **data visualization tools** for ocean information dissemination.
- **Applications:**
  Students understood how INCOIS provides vital data and advisories to **fishermen, coastal communities, and researchers**, contributing to disaster management and sustainable ocean resource use.

**Learning Highlights from the Visit**

✓ **Exposure to Geo-Spatial and Ocean Data Applications**

Students explored real-time ocean data and its practical implications in areas such as **weather forecasting**, **disaster management**, **navigation**, and **map generation**.

✓ **Daily Advisories for Fishermen**

Officials explained how INCOIS provides **daily advisories to fishermen**, helping them identify zones of abundant fish. This not only improves catch rates but also conserves fuel and time.

✓ **Ocean Observing Systems**

Students were introduced to INCOIS's suite of **Ocean Observing Systems** deployed in the Indian Ocean. These systems collect crucial data on various ocean parameters to enhance scientific understanding and prediction capabilities.

✓ **High-Performance Computing & Data Communication**

The visit included a demonstration of the high-performance computing infrastructure and robust data communication networks maintained at INCOIS. These systems support real-time **ocean state forecast models** and ensure **100% redundancy and reliability**.

**Conclusion:**

The industrial visit to INCOIS provided students with a unique opportunity to witness how advanced technologies and scientific research intersect to address environmental and societal challenges. It served as a powerful example of how Computer Science and Engineering, Data science, Artificial Intelligence and Machine Learning principles are applied beyond traditional domains, inspiring students to think broadly about their career paths and research interests

**Poster Design**



## Photographs




