

**VINAYAKA MISSIONS RESEARCH FOUNDATION
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY, PAIYANOOR.
DEPARTMENT OF CIVIL ENGINEERING**

**Industrial Visit to CSIR - Structural Engineering Research Centre, Tharamani on
26.09.2022**



ORGANIZATION : CSIR - Structural Engineering Research Centre

LOCATION : Tharamani

BENEFICIARY : Students from Department of Civil Engineering

On 26th September, 2022, CSIR – Structural Engineering Research Centre organized Open Day on account of On September 26, 1942 marks the inauguration of CSIR. In commemoration, on September 26 of every year, the laboratory is kept open to receive general visitors. Students from the department of Civil Engineering, Research Scholars of Civil Department along with following faculty members visited the organization.

S.No	Name of the Faculty/Research Scholar	Designation
1	Dr.P.S.Aravind Raj	Associate Professor
2	Mr.K.Naveenkumar	Assistant Professor
3	Mrs.R.Abirami	Assistant Professor
4	Mrs.J.Srija	Assistant Professor
5	Mrs.S.Monisha	Assistant Professor
6	Mr.S.Srinivasan	Research Scholar

Schedule of Industrial Visit

S.No	Visited Area of Expertise	Visit Organized By	Time
1	Computational Structural Mechanics	CSIR-SERC	11.00 to 11.30 AM
2	Fatigue and Fracture	CSIR-SERC	11.30 to 12.00 PM
3	Structural Concrete Engineering	CSIR-SERC	12.30 to 1.00 PM
4	Structural Dynamics and Earthquake Engineering	CSIR-SERC	1.30 to 2.00 PM
5	Wind Engineering	CSIR-SERC	2.00 to 2.30 PM

CSIR-SERC Visit Brief





As per the scheduled visit time students were taken to the respective area of expertise. Officials from CSIR-SERC explained about the working principles of modernized and advanced equipment's. Procedure of undertaking industrial projects, process of completion and handover of projects to client were explained in detail to the students and in detail technical aspects of the available facilities are also enlightened to the students.

Other major facilities of research centres visited by students in CSIR-SERC listed below:

- Advanced Concrete Testing & Evaluation Laboratory (ACTEL) with range of equipment for non-destructive testing and evaluation of concrete structures.
- Advanced Materials Laboratory (AML) with material and structural testing equipment including 3-D concrete printer, 2500 KN servo-controlled UTM.
- Advanced protective structures and mechanics laboratory (APSML) with experimental facilities and software tools for analysis and design of protective structures for special needs.
- Advanced Seismic testing and Research Laboratory (ASTaR) consisting of tri-axial shake table systems made up of two separate but synchronized shake tables and pseudo-dynamic test facility.
- Fatigue & Fracture Laboratory (FFL) with widerange of servo-controlled electro-hydraulic actuators and online testing facilities.
- Special and Multi-functional structures Laboratory (SMSL) possessing large space and sophisticated equipment to assess the capacity of structural components for complex loading conditions.
- Steel Structural Laboratory (SSL) with adequate equipment and expertise to conduct R&D on steel structures and to provide solutions to industry problems.

- Structural Health Monitoring Laboratory (SHML) with a large test bed and fully equipped mobile testing facility for continuous monitoring and condition assessment of large and complex structures.
- Wind Engineering Laboratory (WEL) with a boundary layer wind tunnel of test section 1.8m X 2.5m, to generate wind speeds of 55 m/s, a mobile laboratory for field measurements/experiments.

After visiting the completion of scheduled area of expertise in CSIR-SERC students prepared the key notes of visits and leftward the campus.