





## AARUPADAI VEEDU INSTITUE OF TECHNOLOGY INSTITUTION INNOVATION COUNCIL (IIC) – AVIT

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Program Driven by IIC Calendar Activity/ MIC Driven Activity/ Celebration Activity/Self driven activity	IIC calendar Activity		
<b>Event Title</b>	Exposure and Field Visits for Problem Identification:		
	Aligning with UN SDGs and Exploring Emerging		
	Areas of Technologies		
Resource Person	-		
Academic year	2024-2025		QI
Program Type Level 1 - Expert Talk/ Exposure Visit/ Mentoring Session (2 to 4 Hours)	Exposure Visit Level 2		
Level 2 – Conference / Exposure Visit / Seminar / Workshop (5 to 8 Hours)			
Level 3 – Bootcamp/ Competition/ Demo Day/ Exhibition / Workshop (9 to 18 Hours)			
Level 4 – Challenges/ Hackathon/ Tech Fest (Greater than 18 hours)			
Program Theme IPR & Technology Transfer / Innovation & Design	Innovation & Design Thinking		
Thinking / Entrepreneurship & Startup / Pre- Incubation & Incubation Management			
Start date & End Date (DD/MM/YYYY)	26/09/2024		
Duration of the activity (in Mins) & Start Time & End Time	9:30 am	3.30pm	
Participants	Students - 45	Faculty-2	
Mode of session	Offline		
(online / offline) * Online Video Url compulsory			
Event Organizer / Coordinator	Mr.Naveen Kumar, Innovation Ambassador, Civil		
Faculty Name / Department / Designation	Engineering, AVIT		
Target Participants	45		

### Report:











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

Industrial Visit to CSIR - Structural Engineering Research Centre, Tharamani on 26.09.2024



**ORGANIZATION**: CSIR - Structural Engineering Research Centre

**LOCATION** : Tharamani

**BENEFICIARY** : Students from Department of Civil Engineering

On 26<sup>th</sup> September, 2023, 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	Designation	
	Faculty/Research Scholar		
1	Mr.K.Naveenkumar	Assistant Professor – SG-II	
2	Mrs. Geethi Peethambaram	Assistant Professor–SG-II	
3	Ms.Reagilion	Research Scholar	
4	Mr.S.Srinivasan	Research Scholar	

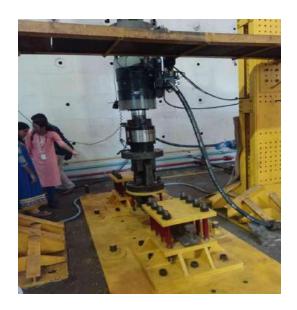
#### **Schedule of Industrial Visit**

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