



**Mr. Nilesh Ajitrao Karmuse**  
Assistant Professor, Department of Civil

 [nileshkarmuse.scoe@sinhgad.edu](mailto:nileshkarmuse.scoe@sinhgad.edu)

**OVERVIEW:**

**Qualifications:** Ph.D. Pursuing, M.E. Civil (Structural Engineering), BE (Civil)

**Experience:** Teaching -08 years

**Date of Joining STES:** 04/12/2017

**Skills and Proficiencies:** Autocad, STAAD-Pro, E-TAB, SAP-2000

**SIGNIFICANT ACHIEVEMENTS:**

- Developing ANN model in Soil Structure Interaction.

**AREA OF EXPERTISE /RESEARCH INTERESTS:**

- Precast Structures, Soil Structure Interaction

**NUMBER OF STUDENTS GUIDED:**

- UG – 12+ Groups

**RESEARCH PUBLICATIONS:**

**Publication Summary:**

<http://troindia.in/journal/ijcesr/vol4iss8part2/88-100.pdf>

**RESEARCH WORK:**

**PhD Research Work:**

- In Soil Structure Interaction analysis while using Finite Element Analysis a certain number of variables cannot be valid use and by using Artificial Neural Network multiple Parameters can be Valid and it could be more effective and efficient. While using ABAQUS and ANSYS, it is very lengthy and complicated process for simulation and by using ANN, time consumption reduced. Through this work, the following objectives have been achieved:
  - 1) To study the parameter affecting the behaviour of structure considering SSI.
  - 2) To develop ANN model to predict SSI effects.
  - 3) To validate the results obtained by ANN model with a result obtained by conventional SSI analysis

- 4) To access the utility of ANN model under the various conditions.
- The research is conducting under the guidance from **Dr.M.G.Kalyanshetti (WIT,Solapur)**

### **SUBJECTS TAUGHT:**

- Surveying
- Project management and Engineering Economics
- Basic Civil Engineering
- Design of Steel Structure
- Advance Surveying
- Architectural Planning and design of building
- Environmental Engineering
- Engineering Mechanics
- Geotechnical Engineering

### **FDP/STTP/SDP ATTENDED:**

- Attended Two weeks FDP on Fundamentals of RC Design Limit State Method and beyond organized by NITTTR From 17<sup>th</sup> June to 28<sup>th</sup> June 2024.
- Attended Five days STTP Program on “Structural Health Monitoring, Retrofitting and Rehabilitation” organized by RMD School of Engineering Pune from 12<sup>th</sup> July to 16<sup>th</sup> July 2021.

### **RESPONSIBILITIES HANDLED AT STES/SCOE/DEPT:**

#### **Society Level**

- Worked as a Taluka coordinator ( Dharashiv) in Admission cell.

#### **Institute Level (SCOE)**

- I have handled whole department during Non-cooperation Period (Taken all lectures, practical's and Exam duty from SE to BE)
- Working as a Exam coordinator (Internal Assistant to Senior Supervisor) in Insem and Endsem Examination.
- Worked as committee member in Admission Counseling Cell.
- Worked as Discipline Committee member in Sinhgad Karandak.
- Worked as committee member in Sponsorship in Sinhgad karandak.

#### **Department Level (Civil)**

- Lab In charge for Surveying, Environmental Engineering -I and Engineering Mechanics Laboratory, Teacher Guardian, Class Teacher.
- Departmental Exam coordinator.
- Departmental Feedback coordinator.
- Departmental Website Coordinator.
- Project Guide for BE.
- Departmental STP coordinator.
- NAAC committee member.
- NBA committee member.

**DECLARATION:**

I hereby declare that all the above information furnished by me are true to the best of my knowledge.

Date: / / 2024

Signature