



SETHU INSTITUTE OF TECHNOLOGY
(An Autonomous Institution)
Pulloor - 626 115, Kariapatti (TK), Virudhunagar District.

Department of Civil Engineering

Video Lectures

Academic year : 2024-2025

S.No	Name of the Course	Name of the Topic	Name of the Faculty
1.	Steel Structures	Design of welded connections: Design of welded connections is the process of determining the size, length, and type of welds required to safely transfer forces between connected structural members as per relevant design codes. https://youtu.be/u5KP1eid9tU?si=xFaswPM704kMZipc	Mr.B.Palanikumar
2.	Structural Dynamics	Importance in Structural Engineering : Structural dynamics is important in structural engineering as it enables the safe and efficient design of structures to withstand time-dependent loads such as earthquakes, wind, vibrations, and impacts. https://youtu.be/THu3kSI7EVo?si=cZy7UmYF2mdJ85PJ	Dr.S.Dhavamani Doss
3.	Advanced Steel Design	Design of Roof Truss: Design of a roof truss involves selecting a suitable truss form, assessing loads (dead, live, wind, snow), analyzing member forces, sizing members and connections per code, and detailing for stability, deflection, and economy. https://youtu.be/QrogFB_Kkk?si=0NmQTMMZExRRXu62	Mr.P.Rajeswaran
4.	Applied Hydraulic Engineering	Fluid kinematics: Fluid kinematics is the study of the motion of fluids without considering the forces and energies causing the motion. https://youtu.be/Yls2YnbPZvs?si=LAK_JGbrG36VMtEI	Mr.R.Logaraja



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5.	Smart material and smart structure	Sensors: Sensors are devices that detect physical, chemical, or biological quantities and convert them into measurable electrical signals for monitoring and control. https://youtu.be/lwRDjhJ6zyI?si=wITFA5uE7-UT-V8S	Dr.A.M.Arunmohan
6.	Development of smart cities	Introduction to smart cities: Smart cities are urban areas that integrate information and communication technologies (ICT) and intelligent solutions to enhance infrastructure, improve resource efficiency, ensure sustainability, and provide a better quality of life for citizens. https://youtu.be/Wwltc2n2NPg?si=BZiqakHGKtBYXyjD	Mr.R.Logaraja