



Steel structures ST02

Schedule of lectures - ST02

Lecture number	Content of lecture
1.	Frame classification, global analysis of beam structures, stability of beam structures with uniform and/or variable cross-sections (buckling and lateral torsional buckling)
2.	Steel joints and connections (pinned, hinged, rigid and semi-rigid joints, classification)
3.	Composite steel-concrete structures
4.	Steel type choosing, tenacity, material ramification, execution classes, high-strength steel
5.	Fire resistance of steel and composite steel-concrete structures
6.	Steel sheds with cranes: crane beams, bracing and structural details
7.	Pylons, towers and chimneys
8.	Silos, tanks and pipes
9.	Structures for technology
10.	Suspension and membrane structures
11.	Scaffolds: joints, bracing and stability
12.	Aluminium and stainless steel structures
13.	Tower buildings