

## Organization of Structural Assemblies

MSM052AN

### Lessons in the semester:

#### 1.) Basic of construction

##### a. The construction process

Phases and participants of the construction process (roles, responsibilities, connections, etc.).

##### b. Technical preparation and controlling of the construction. Contracting process.

Detail design: Documentation for tendering (tender set of drawings), documentation for construction (working drawings) Tendering -choosing from several possible contractors

##### c. The state and the environment of the construction site

Soil mechanics, geodesics. Reviewing natural and geographic characteristics of the site, accessing roads, water and power supply, etc.

##### d. Conditions of the start up and the finishing of the construction work. Handover process. Quality controlling in the construction. Health and safety requirements.

Erecting the building according to the completed plans. Supervision of construction. Running in (testing the systems of the building). Handover take over of the building (reviewing the constructions quality and quantity and the plans)

##### e. Site planning of the construction.

Site organisation. General layout of the construction site, arranging temporary structures, e. g. roads, stores, etc. Location of main equipment, temporary buildings.

##### f. Basics of scheduling

TIME SCHEDULE: Types, relations. List of operations, survey for quantities, labour schedule, plant schedule, material schedule.

##### g. SITE VISIT

Load bearing structures, formwork systems, etc.

**2.) Basic of project management**

**Basics of Project Management**

Functional analyses- PM in general

**Project phases I.**

Start-up of the construction project - architectural competition

**PM in construction industry**

PM in details – PM problem solving

**Cost estimation**

Budget – Cost calculation methods

**Scheduling, computer aided scheduling**

MS project

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