Department: **15124 , Stavitelství II**
Subject: **Building technology and Management (PAM2)**
Scale: 2+1
the conclusion of the subject : z , zk
Garant:. Ing. Radka NavratilovaPh.D..

Name of student: ……

Conditions for granting SUBJECT

1. Submission of the complete exercise DEVELOPER PROJECT
2. **Presentation** from excursion of building site
3. **Pass the exam at least at 50%**

The aim of the exercise is to propose the implementation of a DEVELOPER PROJECT. Prepare a construction technology study (hereinafter STS) for the construction you are solving. The construction must be solved in a real environment, it must contain a building object from the field of civil, residential, industrial, or agricultural construction.

DEVELOPER PROJEKT:

1. SPATIAL STRUCTURE:

1.1. **Basic data on the BUILDING and CONSTRUCTION SITE**, a brief description of the construction works including their purpose and terrain, what is located on the plot, specification of the protective zones extending into the construction site or affecting it. Describe possible arrivals, exits and access to the construction site with a link to the surrounding transport system.

1.2. **Drawing** of the situation of the Construction and its surroundings on a scale of 1: 200 to 1: 500

2. TECHNOLOGICAL STRUCTURE

2.1. Prepare a brief construction and production characteristic of the ground object in the form of a **TABLE**. In the table, indicate: designation and name of the CW, technological stages (TS) and construction and production systems (CPS).

2.2. Design CRANE

3. TIME STRUCTURE

3.1. Design a **BARCHART** for all CWs in the construction timeline.

3.2. Based on the barchart, develop a **PRECEDENCE DIAGRAM** network analysis, including time units and FS, SS, FF links.

3.3. Based on the barchart, develop a **CRITHICAL PATHMETHOD** network analysis, including time units and links.

4. BULIDING SITE

4.1. **Drawing of the construction site** operation of the building and its surroundings, including description and dimensions.

The drawing must also include:

- construction site boundaries, access and exit traffic routes, •
- internal construction site communications with entry and exit markings,
- location of lifting equipment • areas for storage, assembly and production areas.
- areas for the location of sanitary facilities and construction management,
- connection of the construction site to water and electricity sources