

P25

Poster

Murat Kuruoglu

Istanbul Technical University

with:

Gul Polat (MSc.), ITU Construction Management Dpt.

contact:

kuruoglu@itu.edu.tr

Construction Management Education In Turkey : Past to Future

Designing and managing the construction of different kinds of structures have been defined as significant and functional skills since ancient times. In the old years, these skills had been collected at one profession who was named as architect or master builder. However, as a result of the variation and complexity in the structure types and the development of the science and technology, civil engineering has become a separated occupation. In spite of this professional branching, to design and to manage the construction of the structures have been expected from both civil engineers and architects.

Project is a process that is only complete when the owner is convinced that all that was imagined at the very beginning has come true. This process has many parties (owner, contractor, architect, engineer etc.) and phases (feasibility, design, bidding, construction etc.). However, construction projects are specific and unique and do not repeat themselves. In the last five decades a technology that satisfies the special demands of the construction has been developed on a scientific basis. This technology is based on the use of labour, machinery, materials and income - expenditure in an efficient way and to limit the external effects in order to realise the project in optimum time and with minimum cost. This concept called "construction project management", presents a key to solve the specific problems in this sector. Selection of technology, management of time, cost, quality, risk, work safety, communication (correspondence, documents and archive) and personnel are the components of the project management which assumes "money", "time", "resource" and "human" as variable parameters.

In practice, the civil engineers have to take upon responsibility and make decision in all phases of a construction project. Thus, they should possess interdisciplinary wisdom in spite of the fact that, they can follow the progressions in different scientific fields and reach the aimed productivity and efficiency.

The purpose of this study is to designate the definition, the meaning and the reflection of evolution of the Construction Management concept in Turkish construction sector that has been constituted as a result of the professional branching mentioned above, to state the topics that will be required in the future with the help of analyzing the education conditions of the architects and the civil engineers working as construction manager in Turkey and to form the appropriate education programs aimed at the future.

In this study, the present position and needs of the students and the graduates of the unique Construction Management Division at the most fundamental university in Turkey and the present situation of the Turkish construction sector have been examined.