

1.1. Introduction Civil engineering is the oldest branch of engineering that deals with: the design, Construction, and maintenance of the physical and naturally built environment. Civil engineers are responsible for: Planning, Designing, Overseeing. Various infrastructure projects, such as: Buildings, Bridges, Roads, Dams, Airports, : WaterSupply systems.

1.2. Major Areas in Civil Engineering Civil engineers work in many diversified fields. They plan, design, and supervise construction. The major areas of specialization in civil engineering are: ● Construction ● Geotechnical ● Structural ● Transportation ● Water Resources ● Environment

1.2.1. Construction Engineering The Civil Engineer that specializes in construction must: Know various construction methods and the construction equipment required to build structures. * Understand what the designer intended and how the structure best reflects the artistic message. ● Be a Master at construction management since there are so many people involved in the construction process. * Be able to make accurate cost predictions to ensure the project is funded to completion while satisfying all the original specifications.