MAN447 – PROJECT MANAGEMENT
Assignment#1 / MS Project
Fall 2018/2019

"CYTORA" is a well known, world-wide, high quality company and they are implementing software and hardware related projects with their main goal **"100% satisfied customers all around the world!"**

"ARPA" is a company that focuses on **military-defence equipment production** under the influence of **governmental standarts** & **guidelines**.

CYTORA company is going to start a new ERP (Enterprise Resource Planning) project in order to build a business process management (BPM) framework that will satisfy the needs of it's client, ARPA. The scope of the product is generating a system of integrated applications to manage the business and automate the back office functions related to technology, services and human resources as defined on the project charter.

As mentioned on the contract, the project must start on 12.12.2018. It's assumed to be finished in 7 months (including training session) but this duration is flexible, it can be extended by negotiating. Project budget is 700.000$. If this amount is exceeded, CYTORA will be responsible for the exceeding amount. The new sw has no impact on the functions of the machines that are on production line. If malfunction occurs, solution is under responsibility of ARPA.

The project content involves <u>4</u> major parts:

- Infrastructural improvements (INI)

Before the 'Software Development' phase, the necessary infrastructural improvements should be done. They are: A new integrated network structure with a high-speed and advanced web access that embraces the latest technology & hq cabling of the plant are the first two things that have to be done. These two processes can be implemented together in 5 weeks. Installation of the new camera system (2 weeks) must be followed by the installation of the alarm system (2 weeks). PC + Server upgrades (hardware based) to control the new camera system that is integrated with the sophisticated alarm system is the last thing that have to be done (8 weeks) at that phase.

- Software development (SD)

A system of integrated applications to manage the business with an effective GUI. With the new system, the integration between all the departments & production area will be enhanced. The old system will proceed for a while till all the bugs of the new system is removed. The old system is killed after it is synchronized with the new system. Deciding on GUI (1 week) that is followed by Coding process (needs at least 5 weeks) are the necessary steps that have to be completed before debugging and testing (one task, will continue till the beginning of training execution session) process. The last step of this phase is : Removing the old system (after all the above tasks are finalized) that will take 2 weeks. This process can be done during the training execution phase.

- Planning & executing the training process of users (PT & ET)

The training process must be planned (planning needs 2 weeks) during the implementation & integration of software development session (after the coding is implemented) but, it is going to be executed (execution also takes 2 weeks) after the whole documentation is completed.

- Documentation (D)

1. **Requirements Documentation (RD)** – Statements that identify attributes, capabilities, characteristics, or qualities of the system. It must start after the PM decides on GUI and it must be ready by the end of the coding part.
2. **Architecture/Design Documentation (ADD)** – Overview of software. includes relations to an environment and construction principles to be used in design of software components. It must start just after HQ cabling is finished and be ready by the end of Inf. Imp.
3. **Technical Documentation (TD)** – Documentation of code, algorithms, interfaces, and APIs. It is going to start after coding is implemented.
4. **User Manual (UM)** – Manuals for the end-user, system administrators and support staff. It has to start with the coding part and must be ready before the training execution process.