SE 4381, Software Project Planning and Management
Project Assignment T03 – WBS

For your team project, you will write a report and a presentation (which selected teams will present in class) on a specific topic, as listed below. You are to provide insight into different strategies for a) estimating, b) planning, and c) tracking progress.

Several different assignments will be made during the term along the way, including creating a work breakdown structure (this assignment), writing a plan, reading and summarizing source material, synthesizing your observations about the assigned strategies, writing the report, writing the presentation, capturing "lessons learned" for your team, and rating your teammates on their contributions to the project.

For this assignment, your team will create a WBS identifying assignable units of work for the project. It is recommended that each work package in your WBS be no more than eight person hours of effort, although this is a guideline, not a requirement. This first iteration of the WBS does not need to have assignments or effort estimates.

Teams Assigned to Project Topics

1)	Overview of estimating, planning, and tracking progress in the agile methods (particularly Scrum and XP)	**TEAMS 1-3, 6388-1**
2)	Overview of estimating, planning, and tracking progress in critical chain project management	**TEAMS 4-6, 6388-2**
3)	Overview of CMMI for Development emphasizing estimating, planning, and tracking progress	**TEAMS 7-8, EMSE**
4)	Overview of ISO/IEC/IEEE 12207 emphasizing estimating, planning, and tracking progress	**TEAMS 9-11**

To create the WBS, you will have to identify the major pieces of work to be done. Most pertinent, your team will select at least six papers or books on the topic for your project and summarize them. You will probably want to consider the relative sizes of your source documents in making work assignments. The summaries should be 1-2 pages long (double-spaced). The papers should be peer-reviewed papers that you plan to include as references in your project. A peer-reviewed paper is published in a professional journal, such as

> IEEE Transactions on Software Engineering
> IEEE Software
> Communications of the ACM
> ACM Transactions on Software Engineering and Methodology
> ASQ Software Quality Professional
> Information and Software Technology
> Empirical Software Engineering

or in a conference proceedings, for conferences such as the International Conference on Software Engineering, or in a book published by a reputable publisher. This count does not include web posts!

There is no minimum or maximum page limit for the report – whatever is necessary to cover your topic adequately.

Presentations will be 5-10 minutes long (SE 6388 teams should prepare a 10-15 minute presentation).

Mandatory sections of the report
- Introduction (describes the topic, summarizes why it is important)
- Summary of each of the major references
- Discussion of estimating
- Discussion of planning
- Discussion of tracking progress
- Conclusions
- References

Presentations
- Must be 5-10 minutes long
- Not every team member has to be a presenter
- Same mandatory sections as report, plus lessons learned

You may identify other tasks for your team in addition to those described here. For example, you may choose to write an outline of the report (not an assignment to be turned in). You can expect to generate status reports on your progress, which you may want to list in the WBS.

Grading Rubric

A WBS based on a preliminary list of publications and a process for writing the report and presentation as outlined above. Note that I expect at least 20 work packages, each of which will be worth five points.