

**IT 507 Measurement and Evaluation in Industry and Technology**  
**Homework Assignment 1**

Assigned date: Jan. 12, 2016

Due date: Tuesday, Jan. 19, 2016, before 5 PM, as an email attachment (Microsoft word file format)

**Homework Turn-in Requirements: (30 points)**

The homework should include the following sections

- Problem Statement:
  - Copy the questions 1, and 2
- Research approach, tools (software, hardware, others), and estimation of research time needed
- Research time used to complete your research including report preparation
- Research data/information collection
- Research Findings, Summary , and Recommendations

**Action/Question Item 1: (30 points)**

Conduct a Web research to find the definitions of the following six keywords, also include the sources/references (web link with web page title): (1) Reporting study, (2) Descriptive Study, (3) Explanatory Study, (4) Predictive Study, (5) Decision Support System, and (6) Business Intelligence

**Action/Question Item 2: (40 points)**

Do library search through two portals of IPFW's Walter E. Helmke Library (login to my.ipfw.edu)

- Articles Academic Search Premier
- E-Journal Finder & E-Book Finder

Find at least 5 papers/articles for each key word (30 articles/papers subtotal) and at least another 10 paper/articles through the combinations of two set of keywords (one from the first set of keyword, plus another one from second set of key words).

- 1) Prepare a list of those articles/paper titles in the format similar to REFERENCES as shown in the following link:  
[www.etc.ipfw.edu/~lin/ECET491/SysEng\\_ProjectDesignInfo/FinalReport\\_GuidelineF07.html](http://www.etc.ipfw.edu/~lin/ECET491/SysEng_ProjectDesignInfo/FinalReport_GuidelineF07.html)
- 2) Read through at least 2 papers/article and make note on
  - a. How questions address such managerial problems/issues as quantity, quality, risks, cost, efficiency, effectiveness and adequacy
  - b. Research variables and interactions among two or more variables
  - c. Reasoning methods used
  - d. Hypothesis testing
- 3) Design a method /way to show how those interesting points/question can be documented and categorized to help us to do further research