MEM 800 Final Exam – Take home

Research any one of the following. For example do a web search for “VBScript Tutorial”. Compose your own Essay Tutorial in HTML, post it on-line and email me the URL. Hand in a hardcopy printout of your tutorial.

A. VBScript
B. XML (Extended Markup Language)
C. VBA (Visual Basic for Applications) e.g. Excel programming in VB
D. JavaScript

Your tutorial should be between 3 to 5 pages and have the following sections

- **Motivation:** Discuss what are some of technology’s applications and who is your audience i.e. would care to read read/learn about it and where on the learning curve they should be to understand your tutorial e.g. know VB fundamentals, advanced C++ programmers etc (5 points)

- **Objective and Materials:** What your tutorial page will cover and what materials are needed e.g. compilers, books, and background knowledge. Provide hyperlinks if appropriate (5 points)

- **Introduction:** Describe what the technology is, its history, who demanded it, what sort of problems motivated its development (5 points)

- **Simple and more Advanced Examples:** Begin with “Hello World” type program(s) that anyone reading your tutorials can easily try. Then, write more advanced programs. Provide in-depth descriptions of how the program works. Include screen shot images to highlight operation (10 points)

- **Hardware Applications:** Describe how the technology can be used to control actuators and/or acquire sensor data. Speculate industrial applications and how one would go about implementing them. Grading of this part will reflect how easily (based on your programming examples above) one could achieve what you speculate. If you see using the 8255.DLL or Winsock code describe, how they fit into your speculations (15 points)

- **Conclusion:** Describe future potential applications that one can accomplish with your tutorial. Provide hyperlinks and/or bibliography to learn more in depth or to explore further (10 points)

**Note:** The words you use in your tutorial should be your own! Do not just cut-and-paste material you find from other web sites or from Help Files.