UNIVERSITY OF KERALA

SCHOOL OF DISTANCE EDUCATION

ASSIGNMENT TOPICS

IIIrd SEMESTER B.Sc. COMPUTER SCIENCE (2018 Admission)

COMPUTER ORGANIZATION & ARCHITECTURE (CS 1341)

1. Explain floating point number representations and its operations?

2. Compare RISC and CISC

3. Give a detailed study of Pentium Micro Processor

4. Write a note on:

   a) Segmentation

   b) Memory Protection

   c) Multiple module memories

   d) Memory Interleaving

5. Explain DMA and DMA Controller

SOFTWARE ENGINEERING (CS1342)

1. Comparison of different Life Cycle Models.

2. First-level factoring, factoring input, output and transform branches.

3. Design walkthroughs, critical design review, consistency checkers.

4. Differentiate Control flow based and Data-flow based testing.

5. Differentiate black-box and white-box testing.

OPERATING SYSTEMS(CS 1343)

1. Explain CPU scheduling algorithms in detail with example

2. Write a note on:

   a) Critical section problem

   b) Deadlocks

   c) Demand paging

   d) Semaphores

3. Explain different page replacement algorithms in detail.

4. Explain classical synchronization problems in inter process communication.

5. Explain the file system structure and implementation.

INTERNET PROGRAMMING (CS 1344)

1.Explain the architecture of JAVA Servelets.

2.Write any one application program using HTML.

3.Write a note on Macromedia flash,Webserver and Web databases.

4.Write a note on JDBC,PHP, .Net Technology and C#.

5. Explain the web administration and maintenance.

6.Write five application program code in Javascript.

MICROPROCESSORS & PERIPHERALS (CS 1345)

1. Difference between real mode and protected mode?
2. Explain assembler directives with example?
3. Explain COM and EXE files.
4. Explain BIOS and DOS interrupts
5. Difference between maximum mode and minimum mode signals?