COM 301 OPERATING SYSTEMS
T – Theory (3 credits) ; P – Practice (2 credits)

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- Evaluation Strategy (Theory Course)

Quizzes (30) ; Assignments(20) ; Course Project *(10); Endsem(40)

(Lab Course):

Prog Assignments (25); Course Project* (10); Midsem(25); Endsem(40)

Course Platform (theory and practice) – LINUX (FOSS benefit!)

References / Resource Materials:

- Operating System Concepts 7th Edition or above by Silberschatz et.al
- Operating Systems: Internals and Design Principles – 8th Edition or above by William Stallings
- Orielly Series related to Pthreads, Linux (Rober Love), etc.
- Other online resources will be shared through the course

Operating Systems - Introduction

What is the need for an Operating System ?

Need ; Functionalities ; Types

✓Interface or Intermediary between User and Computer H/W

✓Software or Collection of Programs to manage the User and HW

✓Another view – as a Resource Manager to manage the various HW and Software Resources

Primary Responsibility

Ease of Use / User Convenience ; Efficient Management of Resources

OS is like a Government!! – No useful function by itself but sets up environment for other applications / end users to achieve their task!