

Form (H)
Short course description

Course title: Theory of reliability	Course number and code: Stat 362
Previous course requirement: Stat 215	Language of the course: English
Course level: 6 (elective for STAT/ OR)	Effective hours: 3(3+0+0)

Course description

Binary components and systems, modular decomposition, relative importance, system reliability, reliability importance, calculation on system reliability, life distributions, Aging criteria, classes of life distributions

Course objectives

Improve logical judgement and thinking. Modelling practical and real life situations. Enhance the computational and design skills.

Learning outcomes (understanding, knowledge, and intellectual and scientific skills)
After studying this course, the student is expected to be able to:

distinguish different systems
Ability to decompose systems
Ability to model building.
Gain design skills

Textbook adopted and supporting references

Title of the book	Author's name	Publisher's name	Date of publication
Statistical Theory of Reliability and life Testing: Probability Models, to Begin With	Edward Barlow and Frank Proschan	Silver Spring	1981
Reliability: Probabilistic models and Statistical methods	L. M. Leemis	Prentice- Hall, Englewood Cliffs.	1995