

10 ME 41E WORK STUDY
IV B.Tech I Semester
(with effect from the academic year 2013-2014)

Lectures/week: 4 Hrs
University Exam: 3 Hrs

Credits: 4
Sessional Marks: 40
End Examination Marks: 60

UNIT - I

Introduction to work study- Scientific management- Productivity. Advantages of work study.- work study and workers – work study and management

UNIT - II

Method Study: Introduction- Significance of process charts. Critical Examination- Identification of key activities of exercises on process charts - Flow diagrams - String diagrams – travel chart.

UNIT - III

Micro motion analysis- Memo motion films – Therbligs - Principles of Motion Economy: Work place layout – Human body – Design of tools and equipment.

UNIT - IV

Work Measurement: Work measurement techniques- Rating- Allowances- Standard time - problems on Standard time and Rating - Introduction to Synthetic data- Activity sampling Analytical estimating - PMTS- Work factor- MTM.

UNIT - V

Job Evaluation- Techniques of job evaluation- Merit rating- Fatigue – Ergonomics – Ergonomics applied to work place layout.

TEXT BOOKS:

1. Introduction to Work Study : International Labour Organisation.
2. Elements of Work Study and Ergonomics : Dalela Etal, Standard Publications.

REFERENCES:

1. Motion and Time Study – Design and Measurement of Work : Ralph M. Barnes
2. Work Study : Khanna O.P