UNIT I  INTRODUCTION TO SOFTWARE RELIABILITY  7

UNIT II  SOFTWARE RELIABILITY MODELING  12
Concepts – General Model Characteristic – Historical Development of models – Model
Classification scheme – Markovian models – General concepts – General Poisson Type
Models – Binomial Type Models – Poisson Type models – Fault reduction factor for
Poisson Type models.

UNIT III  COMPARISON OF SOFTWARE RELIABILITY MODELS  10
Comparison Criteria – Failure Data – Comparison of Predictive Validity of Model Groups
– Recommended Models – Comparison of Time Domains – Calendar Time Modeling –
Limiting Resource Concept – Resource Usage model – Resource Utilization – Calendar
Time Estimation and confidence Intervals.

UNIT IV  FUNDAMENTALS OF MEASUREMENT  8
Measurements in Software Engineering – Scope of Software metrics – Measurements

UNIT V  PRODUCT METRICS  8
Measurement of Internet Product Attributes – Size and Structure – External Product
Attributes – Measurement of Quality – Reliability Growth Model – Model Evaluation

TOTAL = 45

REFERENCES

   Measurement, Prediction, Application, Series in Software Engineering and