

**PRODUCTION ENGINEERING**  
**PROBABILITY AND INTRODUCTION TO STATISTICS**  
SUBJECT CODE: 2142505  
B.E. 4th SEMESTER

**SYLLABUS FOR PAT EXAM – MARCH 2019**

**1 Introduction to Statistical Methods**

Statistics & Managerial Decisions, Statistical Data, Operation Research Techniques.

**2 Data Collection And Analysis**

Collection and presentation of data in terms of tables, graphs, raw data, frequency distributions, histogram etc. Cumulative frequency curve. Measures of central tendency and location, Partition values. Comparison of various measures of central tendencies. Measures of dispersion, skewness& kurtosis, comparison of various measures of dispersion, Moments as measures of Statistical properties, measures of skewness& kurtosis based on moments.

**3 Probability Distribution & Statistics**

Introduction of Probability, sample, space & events, Basic rules of probability, permutation & combinations, conditional probability, Baye's theorem,