

S.Y.B.COM
Semester -III

Statistics (SEC- Paper-I): INDUSTRIAL STATISTICS

Credit : 2

Course Outcomes (COs)

On completion of the course, the students will be able to:

CO1	Understand the basic concept of Quality and statistical techniques to improve it.
CO2	Understand the basic concept of control chart.
CO3	Understand the basic concept of TQM.
CO4	Understand application of charts to control quality of the product.
CO5	Apply the knowledge of charts on real life examples..

OBJECTIVE

The main objective of this course is to provide fundamental knowledge of techniques of quality control, cusum chart and total quality management. The purpose is to make students aware about how to control quality of the product using different statistical charts.

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Ans

Sr.No.	Course Inputs (As per UGC Model Curriculum)	Weightage	Marks
UNIT-I	The meaning of Quality & Quality improvement Introduction of Statistical quality control Statistical process control ➤ Introduction ➤ Measure of location and variability ➤ Process of Control Charts for variables & attributes ➤ Process of control limits ➤ Out of control criteria	40%	10
UNIT-2	Statistical product control ➤ Introduction ➤ Standard plans for attributes ➤ Single sampling plan : O.C. Function, ASN,ATI, AOQ	40%	10
UNIT-3	Total Quality Management ➤ Meaning and Important concepts ➤ Importance of Quality Management ➤ ISO 9001	20%	5
	GRAND TOTAL	100%	25

References Books:	
Hopper A.G	"Basic Statistical Quality Control", McGraw Hill, London.
Gupta R.C.	"Statistical Quality Control", Khanna publishers, New Delhi.
Ryan T.P.	"Statistical Methods for Quality Improvement"; John Wiley & Sons.
Omachonu V.K. and Ross J.E.	"Principles of Total Quality"; S.Chand & Co., New Delhi.

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