

**OBE BASED TEACHING LESSON PLAN - 2020-21**

Program: **B.Com(Reg)**

Subject Name: **Business Statistics & Research Techniques**

Subject code: **C115AR204**

Semester: **II**

Lecture hours: **60**

**Faculty in-charge:** Ms. Sneha Rai, Mr. Dileep Kumar Shetty and Mr. Vinay Pradeep

<b>Course Outcome No.</b>	<b>Course Outcomes</b>	<b>T level Indicator</b>
<b>CO1</b>	Explain the relevance and role of statistics in business research.	<b>T2</b>
<b>CO2</b>	Choose the appropriate tool of measures of central tendency and dispersion in accordance with type of the case for Analysis.	<b>T5</b>
<b>CO3</b>	Identify from a probability scenario events that are simple, complementary, mutually exclusive, and independent.	<b>T1</b>
<b>CO4</b>	Choose the appropriate test of hypothesis in accordance with type of the case for Analysis.	<b>T5</b>
<b>CO5</b>	Choose the appropriate tools for Analysis in accordance with type of the case.	<b>T5</b>
<b>CO6</b>	Decide what graphs are appropriate for displaying quantitative and categorical variables.	<b>T6</b>

<b>Module No. &amp; Topics Covered</b>	<b>Course Outcome No.</b>	<b>No. of Lecture Hours</b>	<b>Pre-Class Activity</b>	<b>Instructional techniques</b>	<b>Assessment</b>	<b>T level</b>
<b>Module - 1 : Introduction to Statistics</b>	CO1	5	Youtube video (NPTEL)	<ul style="list-style-type: none"> <li>• Online Videos</li> <li>• Lecture</li> <li>• Discussion</li> </ul>	Evaluation through tests and asking questions in class	T2
<b>Module-2: Measure of central tendency and dispersion</b>	CO2	13	Youtube video	<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Case Study</li> <li>• Discussion</li> <li>• Problem solving</li> </ul>	Evaluation through tests and asking questions in class	T5
<b>Module-3: Probability</b>	CO3	12		<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Problem solving</li> </ul>	Evaluation through tests and asking questions in class	T1
<b>Module-4: Hypothesis testing</b>	CO4	15		<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Case Study</li> <li>• Discussion</li> <li>• Problem solving</li> </ul>	Evaluation through tests and asking questions in class	T5
<b>Module-5: Statistical tools for Research Analysis</b>	CO5	10		<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Case study</li> <li>• Problem solving</li> </ul>	Evaluation through tests and asking questions in class	T5

<b>Module-6: Diagrammatic and graphical representation of data</b>	CO6	5		<ul style="list-style-type: none"> <li>• Lecture</li> <li>• Discussion</li> <li>• Problem solving</li> </ul>	Evaluation through Tests and asking questions in class	T6
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#### **Continuous Internal Assessment**

- Class test 1 : Last week of February
- Assignment : 2<sup>nd</sup> week of March
- Class test 2: 1<sup>st</sup> week of April

#### ***Book for Reference:***

- *C. B. Gupta: Statistics, Himalaya Publications.*
- *Chikkodi& B. G. Satya Prasad: Business Statistics, Himalaya Publications.*
- *Dr. Asthana: Elements of Statistics, Chaitanya.*
- *Dr. B. N. Gupta: Statistics, SahityaBhavan, Agra.*
- *Dr. Sancheti& Kapoor: Statistics Theory, Methods and Application.*
- *Ellahance: Statistical Methods.*
- *S. P. Gupta: Statistical Methods, Sultan Chand, Delhi.*

**Approved by:**