DPG DEGREE COLLEGE GURGAON

LESSON PLANNER FOR THE SEMESTER II/IV/VI (A.Y. -2017-18)

**NAME OF THE TEACHER:*Nisha ( Assistant Professor)***

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|  | **CLASS** | **B.Com- 2nd Year Semester- IV (Section A & B)** |
|  | **SUBJECT** | **Business Statistics** |
|  |  | **TOPICS COVERED** |
| **CHAPTER 1**  **WEEK 1**  **1/1/18** | **WEEK 1 Day 1**  **1.1.1** | **Unit-I Index numbers I**  Introduction to Index numbers |
| **2/1/18** | **WEEK 1 Day 2**  **1.2.1**  **1.2.1** | Definition of index number  Uses of index numbers |
| **3/1/18** | **WEEK 1 Day3**  **1.3.1**  **1.3.2** | Types of price index numbers  Characteristics of index number |
| **4/1/18** | **WEEK 1 Day 4**  **1.4.1** | Methods of construction of price index |
| **5/1/18** | **WEEK 1 Day 5**  **1.5.1** | Simple or Un weighted price indexes |
| **6/1/18** | **WEEK 1 Day 6**  **1.6.1** | Aggregate price index |
| **WEEK 2**  **8/1/18** | **WEEK 2 Day 1**  **1.7.1** | Average price relative index |
| **9/1/18** | **WEEK 2 Day 2**  **1.8.1** | Weighted price index |
| **10/1/18** | **WEEK 2 Day 3**  **1.9.1** | Weighted aggregate price index |
| **11/1/18** | **WEEK 2 Day 4**  **1.10.1** | **Weighted average of price relative index** |
| **12/1/18** | **WEEK 2 Day 5**  **1.11.1** | **Quantity or volume indexes** |
| **13/1/18** | **WEEK 2 Day 6**  **1.12.1** | **Conceptual questions and self practice problems** |
| **WEEK 3**  **15/1/18** | **WEEK 3 Day 1.13.1** | **Tests of adequacy of indexes** |
| **16/1/18** | **WEEK 3 Day 2**  **1.14.1** | **Time reversal test** |
| **17/1/18** | **WEEK 3 Day 3**  **1.15.1** | **Factor reversal test** |
| **18/1/18** | **WEEK 3 Day 4**  **1.16.1** | **Circular test** |
| **CHAPTER 2**  **19/1/18** | **WEEK 3 Day 5**  **2.1.1** | **Index number – II**  Introduction |
| **20/1/18** | **WEEK 3 Day 6**  **2.2.1** | **Application of index number** |
| **22/1/18** | **WEEK 4 Day 1**  **2.3.1** | **Changing the base of an index** |
| **23/1/18** | **WEEK 4 Day 2**  **2.4.1** | **Combining overlapping indexes** |
| **24/1/18** | **WEEK 4 Day 3**  **2.5.1** | **Correlation adjustment in value of an item** |
| **25/1/18** | **WEEK 4 Day 4** | **Self practice numerical** |
| **27/1/18** | **WEEK 4 Day 6** | **Self practice numerical continue** |
| **CHAPTER 4**  **WEEK 5**  **29/1/18** | **WEEK 5 Day 1**  **2.6.1** | **Importance of consumer price index** |
| **30/1/18** | **WEEK 5 Day 2** | **Problem of index number construction** |
| **31/2/18** | **WEEK 5 Day 3** | **Practical questions** |
| **CHAPTER 3**  **1/2/18** | **WEEK 5 Day 4** | **Unit II Analysis of time series** |
| **2/2/18** | **WEEK 5 Day 5**  **3.1.1** | **Introduction to time series** |
| **3/2/18** | **WEEK 5 Day 6**  **3.2.1** | **Types and timing of forecasts** |
| **WEEK 6**  **5/2/18** | **WEEK 6 Day 1**  **3.3.1** | **Forecasting methods**  **Quantitative forecasting methods** |
| **6/2/18** | **WEEK 6 Day 2**  **3.4.1** | **Qualitative forecasting methods** |
| **7/2/18** | **WEEK 6 Day 3**  **3.5.1** | **Steps of forecasting** |
| **8/2/18** | **WEEK 6 Day 4**  **3.6.1**  **3.6.2** | **Time series analyses**  **Objectives of time series analysis** |
| **9/2/18** | **WEEK 6 Day 5**  **3.7.1** | **Time series pattern** |
| **10/2/18** | **WEEK 6 Day 6**  **3.8.1** | **Components of time series** |
| **WEEK 7**  **12/2/18** | **WEEK 7 Day 1**  **3.8.2** | **Time series decomposition model** |
| **13/2/18** | **WEEK 7 Day 2**  **3.8.3** | **Multiple models and additive model** |
| **14/2/18** | **WEEK 7 Day 3** | **Conceptual questions** |
| **15/2/18** | **WEEK 7 Day 4**  **3.9.1** | **Quantitative forecasting methods** |
| **16/2/18** | **WEEK 7 Day 5**  **3.9.2**  **3.9.3**  **3.9.4** | **Free hand method**  **smoothing method**  **exponential smoothing method** |
| **17/2/18** | **WEEK 7 Day 6** | **Self practice problem** |
| **WEEK 8**  **19/2/18** | **WEEK 8 Day 1**  **3.10.1** | **Trend projection methods** |
| **20/2/18** | **WEEK 8 Day 2**  **3.11.2**  **3.11.3** | **Linear trend projection method,**  **quadratic trend projection method** |
| **21/2/18** | **WEEK 8 Day 3**  **3.11.4** | **exponential trend projection method** |
| **22/2/18** | **WEEK 8 Day 4**  **3.12.1** | **Changing the origin and the scale of the trend line** |
| **CHAPTER 6**  **23/2/18** | **WEEK 8 Day 5** | **Self practice problem** |
| **24/2/18** | **WEEK 8 Day 6**  **3.13.1** | **Measurement of seasonal effects** |
| **CHAPTER 4**  **WEEK 9**  **26/2/18** | **WEEK 9 Day 1**  **4.1.1** | **Time series Analysis - II**  **Seasonal index and method of simple average** |
| **27/2/18** | **WEEK 9 Day 2**  **4.2.1** | **Ratio to trend method** |
| **28/2/18** | **WEEK 9 Day 3**  **4.3.1** | **Ratio to moving average method** |
| **1/3/18** | **WEEK 9 Day 4**  **4.4.1** | **Link relative method** |
| **3/3/18** | **WEEK 9 Day 5**  **4.5.1** | **Measurement of cyclic variation- residual method** |
| **WEEK 10**  **5/3/18** | **WEEK 10 Day 1** | **Practice problems related to time series** |
| **CHAPTER 5**  **6/3/18** | **WEEK 10 Day 2**  **5.1.1** | **Unit III Theory of Probability**  Introduction to probability |
| **7/3/18** | **WEEK 10 Day 3**  **5.2.1** | concept of Probability |
| **8/3/18** | **WEEK 10 Day 4**  **5.3.1** | Random experiment |
| **9/3/18** | **WEEK 10 Day 5**  **5.4.1**  **5.4.2** | Sample space  types of event |
| **10/3/18** | **WEEK 10 Day 6**  **5.5.1** | Definition of Probability |
| **WEEK 11**  **12/3/18** | **WEEK 11 Day 1**  **5.6.1** | Classical approach |
| **13/3/18** | **WEEK 11 Day 2**  **5.7.1**  **5.7.2** | Probability scale  Calculation of probability of an event |
| **14/3/18** | **WEEK 11 Day 3**  **5.7.3** | Use of calculations in theory of probability |
| **15/3/18** | **WEEK 11 Day 4**  **5.8.1**  **5.8.2** | Theorems on probability  Addition theorem |
| **16/3/18** | **WEEK 11 Day 5**  **5.8.3** | Multiplication theorem |
| **17/3/18** | **WEEK 11 Day 6**  **5.8.4** | Bayes theorem |
| **WEEK 12**  **19/3/18** | **WEEK 12 Day 1**  **5.9.1** | Conditional probability |
| **20/3/18** | **WEEK 12 Day 2** | Problems on addition probability |
| **21/3/18** | **WEEK 12 Day 3** | Numerical problem on multiplication theorem |
| **22/3/18** | **WEEK 12 Day 4** | Numerical on bayes theorem |
| **23/3/18** | **WEEK 12 Day 5** | Assignment on unit I & II |
| **24/3/18** | **WEEK 12 Day 6** | **Assignment checking** |
| **CHAPTER 6**  **WEEK 13**  **26/3/18** | **WEEK 13 Day 1**  **6.1.1** | **Unit IV Probability Distributions-Binomial and poisson**  Introduction |
| **27/3/18** | **WEEK 13 Day 2**  **6.2.1** | Observed frequency Distribution |
| **28/3/18** | **WEEK 13 Day 3**  **6.3.1** | Theoretical or Probability Distribution |
| **29/3/18** | **WEEK 13 Day 4**  **6.3.2** | Uses and types of theoretical or probability distribution |
| **30/3/18** | **WEEK 13 Day 5**  **6.4.1** | Binomial Distribution |
| **31/3/18** | **WEEK 13 Day 6**  **6.5.1** | Properties/characteristics of binomial distribution |
| **WEEK 14**  **2/4/18** | **WEEK 14 Day 1**  **6.6.1** | Applications of binomial distribution |
| **3/4/18** | **WEEK 14 Day 2**  **6.7.1** | Properties and applications of poisson distribution |
| **4/4/18** | **WEEK 14 Day 3** | Numerical on bini=omial distribution |
| **5/4/18** | **WEEK 14 Day 4** | Numerical on Poisson distribution |
| **6/4/18** | **WEEK 14 Day 5** | Assignment on unit III |
| **7/4/18** | **WEEK 14 Day 6** | Checking of assignment and revision |
| **CHAPTER 7**  **WEEK 15**  **9/4/18** | **WEEK 15 Day 1**  **7.1.1** | **Probability Distribution – Normal**  Introduction to normal probability |
| **10/4/18** | **WEEK 15 Day 2**  **7.2.1** | Characteristics and applications of normal distribution |
| **11/4/18** | **WEEK 15 Day 3**  **7.3.1** | Relation among Binomial, poisson and Normal distribution |
| **12/4/18** | **WEEK 15 Day 4**  **7.4.1** | Difference between binomial and normal distribution |
| **13/4/18** | **WEEK 15 Day 5**  **7.5.1**  **7.5.2** | Fitting of normal curve  Ordinate method and area method |
| **14/4/18** | **WEEK 15 Day 6** | Assignment on unit IV |
| **WEEK 16**  **16/4/18** | **WEEK 16 Day 1** | Assignment checking and revision |
| **17/4/18** | **WEEK 16 Day 2** | Examination guidance lecture cont. |
| **18/4/18** | **WEEK 16 Day 3** | Examination guidance lecture cont. |

**REMARKS:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SIGN OF TEACHER:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . SIGN OF THE PRINCIPAL: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .**