

### III. CORE COURSE [CCECO303]: (Credits: Theory-04, Tutorial-01)

Marks: 30 (MSE: 20Th. 1Hr + 5Attd. + 5Assign.) + 70 (ESE: 3Hrs)=100	Pass Marks (MSE:17 + ESE:28)=45
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#### **Instruction to Question Setter:**

##### Mid Semester Examination (MSE):

There will be **two** groups of questions in written examinations of 20 marks. **Group A is compulsory** and will contain five questions of **very short answer type** consisting of 1 mark each. **Group B will contain descriptive type five** questions of five marks each, out of which any three are to be answered.

##### End Semester Examination (ESE):

There will be **two** groups of questions. **Group A is compulsory** and will contain two questions. **Question No.1 will be very short answer type** consisting of five questions of 1 mark each. **Question No.2 will be short answer type** of 5 marks. **Group B will contain descriptive type six** questions of fifteen marks each, out of which any four are to be answered.

**Note:** There may be subdivisions in each question asked in Theory Examinations

The Mid Semester Examination shall have three components. (a) Two Semester Internal Assessment Test (SIA) of 20 Marks each, (b) Class Attendance Score (CAS) of 5 marks and (c) Class Performance Score (CPS) of 5 marks. “**Best of Two**” shall be applicable for computation of marks for SIA.

(Attendance Upto75%, 1mark; 75<Attd.<80, 2 marks; 80<Attd.<85, 3 marks; 85<Attd.<90, 4 marks; 90<Attd, 5 marks ).

## **RESEARCH METHODOLOGY AND ELEMENTARY ECONOMETRICS**

**Theory: 60 Lectures; Tutorial:15 Hrs**

### **Module I: Concept of Research**

Types of Research – Theoretical and Applied, Descriptive and Explanatory, Quantitative & Qualitative, other types of Research; Steps in Research.

### **Module II: Research Process**

Formulation of Research Problems, Hypothesis & Research questions.

### **Module III: Research Design**

Concept and importance; Features of a good research design, Concept of independent and dependent variables, concomitant variables, extraneous variables, Treatment and Central group.

### **Module IV: Data for Research**

Quantitative and Qualitative, Cross section time series and panel data, sources of data; Primary and Secondary, Techniques of Primary data collection, Questionnaire and Interview, observation and case study.

### **Module V: Statistical Methods**

Descriptive statistics and its uses. Interpretation of data: editing, coding, tabulation and presentation. Inferential statistics – its use. Properties of a good estimator, Use of chi-square, t z and F test.

### **Module VI: Elementary Econometrics**

Definition of Econometrics, steps in Econometric research, Two variable linear model, assumptions, least square estimates of the parameters, testing significance of the estimated parameters, confidence limits, ANOVA

### **Module VII: Layout of Research Paper**

Report writing, Bibliography and Reference writing.

### **Basic Readings List**

- Kothari : Research Methodology
- Deepak Chawla & N. Sondha: Research Methodology, Concept & Case, Vikas Publishing House Pvt. Ltd.
- Ranjit Kumar: Research Methodology for Beginners, Pearson Publication.