

**FATIMA COLLEGE (AUTONOMOUS)**



**Re-Accredited with “A” Grade by NAAC (3<sup>rd</sup> Cycle)  
74<sup>th</sup> Rank in India Ranking 2020 (NIRF) by MHRD  
Maryland, Madurai- 625 018, Tamil Nadu, India**

**NAME OF THE DEPARTMENT: RESEARCH CENTRE OF ECONOMICS**

**NAME OF THE PROGRAMME: MA**

**PROGRAMME CODE : PAEC**

**ACADEMIC YEAR : 2021-2022**

**FATIMA COLLEGE (AUTONOMOUS), MADURAI-18**

**DEPARTMENT OF ECONOMICS**

*For those who joined in June 2019 onwards*

**I MA ECONOMICS – 70 CREDITS**

**PROGRAMME CODE:**

| PROGRAMME CODE: |     |            |                                     |     |         |         |         |          |
|-----------------|-----|------------|-------------------------------------|-----|---------|---------|---------|----------|
| S.No            | SEM | COURSECODE | COURSE TITLE                        | HRS | CREDITS | CIA Mks | ESE Mks | TOT. MKs |
| 1.              | I   | 19PG1E1    | MICRO ECONOMIC ANALYSIS             | 6   | 4       | 40      | 60      | 100      |
| 2.              |     | 19PG1E2    | STATISTICAL METHODS                 | 6   | 4       | 40      | 60      | 100      |
| 3.              |     | 19PG1E3    | INDIAN ECONOMY                      | 6   | 4       | 40      | 60      | 100      |
| 4.              |     | 19PG1E4    | MONEY AND BANKING                   | 6   | 4       | 40      | 60      | 100      |
| 5.              | II  | 19PG2E5    | MACRO ECONOMIC ANALYSIS             | 6   | 4       | 40      | 60      | 100      |
| 6.              |     | 19PG2E6    | MATHEMATICS FOR ECONOMISTS          | 6   | 4       | 40      | 60      | 100      |
| 7.              |     | 19PG2E7    | FINANCIAL MARKETS                   | 6   | 4       | 40      | 60      | 100      |
| 8.              |     | 19PG2E8    | COMPUTER APPLICATION FOR ECONOMISTS | 6   | 4       | 40      | 60      | 100      |
| 9.              | III | 19PG3E9    | DEVELOPMENT ECONOMICS               | 6   | 4       | 40      | 60      | 100      |
| 10.             |     | 19PG3E10   | ECONOMETRICS                        | 6   | 4       | 40      | 60      | 100      |
| 11.             |     | 19PG3E11   | RESEARCH METHODOLOGY                | 6   | 5       | 40      | 60      | 100      |
| 12.             |     | 19PG3E12   | FINANCIAL ECONOMICS                 | 4+2 | 5       | 40      | 60      | 100      |
| 13.             | IV  | 19PG4E13   | INDIAN FISCAL SYSTEM                | 6   | 5       | 40      | 60      | 100      |
| 14.             |     | 19PG4E14   | INTERNATIONAL ECONOMICS             | 6   | 5       | 40      | 60      | 100      |
| 15.             |     | 19PG4E15   | BEHAVIORAL ECONOMICS                | 6   | 5       | 40      | 60      | 100      |
| 16.             |     | 19PG4E16   | ENVIRONMENTAL ECONOMICS             | 6   | 5       | 40      | 60      | 100      |
| Total           |     |            |                                     | 96  | 70      |         |         |          |

**I MA ECONOMICSELECTIVE/ EXTRA DEPARTMENTALCOURSE /  
INTERNSHIP/ PROJECT -20 CREDITS**

| S. No | SEM . | COURSECODE  | COURSE TITLE                                     | H RS | CRE DIT S | CIA Mks | ES E Mk s | TOT. Mks |
|-------|-------|-------------|--|------|-----------|---------|-----------|----------|
| 1.    | I     | 19E1EDC     | BUSINESS SKILLS FOR WOMEN                        | 3    | 3         | 40      | 60        | 100      |
| 2.    | II    | 19E2EDC     | BUSINESS SKILLS FOR WOMEN                        | 3    | 3         | 40      | 60        | 100      |
| 3.    | III   | 19PG3EE1/E2 | AGRICULTURAL ECONOMICS/ GENDER ECONOMICS         | 4    | 4         | 40      | 60        | 100      |
| 4.    |       | 19PG3SIL1   | Summer Internship                                | -    | 3         | 40      | 60        | 100      |
| 5.    | IV    | 19PG4EE3/E4 | NATIONAL INCOME ACCOUNTING/ INDUSTRIAL ECONOMICS | 4    | 4         | 40      | 60        | 100      |
| 6.    |       | 19PG4E17    | Project  | -    | 3         | 40      | 60        | 100      |
| TOTAL |       |             |  | 14   | 20        |         |           |          |

**OFF-CLASS PROGRAMMES**

**ADD-ON COURSES**

| COURSE CODE | COURSES   | HRS. | CRE DIT S | SEMES TER IN WHICH THE COURSE IS OFFER ED | CI A MK S | ES E MK S | TOT AL MAR KS |
|-------------|---|------|-----------|---|-----------|-----------|---------------|
| 19PADSS     | <b>SOFT SKILLS</b>  | 40   | 3         | I   | 40        | 60        | 100           |
| 19PADCA     | <b>COMPUTER APPLICATIONS</b><br><b>WEB DESIGNING USING HTML AND DREAMWEAVER</b> | 40   | 4         | II  | 40        | 60        | 100           |

| COURSE CODE  | COURSES  | HRS. | CREDITS   | SEMESTER IN WHICH THE COURSE IS OFFERED | CIA MARKS | ES MARKS | TOTAL MARKS |
|--------------|--|------|-----------|---|-----------|----------|-------------|
| 19PADCV      | <b>COMPREHENSIVE VIVA</b> (Question bank to be prepared for all the courses by the respective course teachers) | -    | 2         | IV                                      | -         | -        | 100         |
| 19PADRC      | <b>READING CULTURE</b>   | 10   | 1         | I-IV                                    | -         | -        | -           |
| <b>TOTAL</b> |  |      | <b>10</b> |   |           |          |             |

#### EXTRA CREDIT COURSES

| COURSE CODE | COURSES  | HR S. | CREDITS           | SEMESTER IN WHICH THE COURSE IS OFFERED | CIA MARKS | ES MARKS | TOTAL MARKS |
|-------------|--|-------|-------------------|---|-----------|----------|-------------|
| 20PGE3SL3   | <b>INDUSTRIAL ECONOMICS AND LABOUR LAWS;-</b>                                      | -     | 2                 | I                                       | 40        | 60       | 100         |
| 20PGE4SL4   | <b>NUMERICAL ABILITY FOR COMPETITIVE EXAMINATION /</b>                             | -     | 2                 | II                                      | 40        | 60       | 100         |
|             | <b>MOOC COURSES / International Certified online Courses</b> (Department Specific) | -     | Minimum 2 Credits | I – IV                                  | -         | -        |             |



|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  | Courses/any other<br>courses) * Students<br><br>can opt other than<br>the listed course<br>from<br>UGC-SWAYAM<br>/UGC /CEC |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

- **Summer Internship:**

- o Duration-1 month (2<sup>nd</sup> Week of May to 2<sup>nd</sup> week of June-before college reopens)

- **Project:**

- o Off class
- o Evaluation components-Report writing + Viva Voce (Internal marks-40) + External marks 60

- **EDC:**

- o Syllabus should be offered for two different batches of students from other than the parent department in Sem-I & Sem-II

**II SEMESTER****OLD****MAJOR****MACRO ECONOMIC ANALYSIS- 19PG2E5**

(For those who joined in 2019 onwards)

**HOURS/WEEK: 6****CREDIT:5****COURSE DESCRIPTION**

Study National income and related concepts, consumption and investment function, IS & LM function, business cycle, Macroeconomic policies implemented to stabilise the economy.

**COURSE OBJECTIVES**

1. Impart theoretical skills in students at macro level.
2. Enable the students to know the modern existing application oriented theories.
3. Equip them to face IES, IAS exams and NET exam

**COURSE OUTCOMES (CO)**

| No.  | Course Outcome  | Knowledge Level |
|------|---|-----------------|
| CO 1 | Evaluate the modern existing application oriented theories  | K1              |
| CO 2 | Derive a plan to compete and win the competitive examinations like IAS, IES, and NET                  | K2              |
| CO 3 | Identify the impact of fluctuations in macroeconomic concepts on economic growth.                     | K2              |
| CO 4 | Assess the policies implemented by government to set right the economic problems faced by the nation. | K3              |
| CO 5 | Identify the changes in the economic scenario and evaluate the current economic growth.               | K3              |
| CO6  | Compare and contrast the growth at the national and international level.                              | K1              |

## UNIT-I NATIONAL INCOME

[15 HRS]

Concept: Micro- Macro relations-stock and flow relationships – national income and social accounting.NNP, GNP at current prices, market prices-factor prices. **Trends in the growth of GDP (Self study)**

## UNIT-II CONSUMPTION AND INVESTMENT FUNCTION

[15

HRS]

Consumption Function: The short run consumption function – the relative income hypothesis – the permanent income hypothesis and the absolute income hypothesis- the long run consumption function. Autonomous induced investment, MEC and rate of interest. **Trends in Autonomous Investment (Self study)**

## UNIT-III IS & LM FUNCTION

[15 HRS]

IS & LM Function: General equilibrium of product and money markets- shifts in IS & LM elasticities- classical range –intermediate range and Keynesian range- IS&LM model with Foreign trade sector. **Foreign trade trends- (Self study)**

## UNIT-IV BUSINESS CYCLE

[15 HRS]

Theories of Schumpeter, Kaldor, Samuelson and Hicks, Goodwin's model; Control of business cycles — relative efficacy of monetary and fiscal policies. **Tariff Policy- (Self study)**

## UNIT- V MACRO ECONOMIC POLICY

[15 HRS]

Macro Economic Policy: Objectives of Macroeconomic policy –Phillip's curve and unemployment- stagflation- Keynesianism versus monetarism- supply side economics. Current macroeconomic scenario: national and international. **Unemployment trends in India- (Self study)**

## UNIT –VI DYNAMISM

Analysis and interpretation of the status of the economy -Data collection of macro variables (GDP, National Income, Export etc) - Analysis of the psychological law of consumption with change in income and demand - Concept analysis like unemployment, savings, investment etc with relevant country or inter-country data .

## COURSE CONTENTS & TEACHING/LEARNING SCHEDULE

| Module No.   | Topic                                  | No. of Lectures | Content Delivery Method | Teaching Aids               |
|--|--|-----------------|-------------------------|-----------------------------|
| <b>UNIT -1 INTRODUCTION</b>                        |  |                 |                         |                             |
| 1.1  | Micro- Macro relations                 | 2               | PPT and Lecture         | Google meet, Study Material |
| 1.2  | stock and flow relationships           | 2               | PPT and Lecture         | Google meet, Study Material |
| 1.3  | national income and social accounting. | 3               | PPT and Lecture         | Google meet, Study Material |
| 1.4  | NNP, at current prices, market prices  | 3               | PPT and Lecture         | Google meet, Study Material |
| 1.5  | GNP at current prices, market prices   | 3               | PPT and Lecture         | Google meet, Study Material |
| 1.6  | factor prices.                         | 2               | PPT and Lecture         | Google meet, Study Material |
| <b>UNIT-II CONSUMPTION AND INVESTMENT FUNCTION</b> |  |                 |                         |                             |
| 2.1  | The short run consumption function     | 2               | PPT and Lecture         | Google meet, Study Material |
| 2.2  | relative income hypothesis             | 2               | PPT and Lecture         | Google meet, Study Material |
| 2.3  | permanent income hypothesis            | 1               | PPT and Lecture         | Google meet, Study Material |
| 2.4  | absolute income hypothesis             | 2               | PPT and Lecture         | Google meet, Study Material |

|                                      |  |   |                 |                             |
|--------------------------------------|--|---|-----------------|-----------------------------|
| 2.5                                  | long run consumption function                            | 2 | PPT and Lecture | Google meet, Study Material |
| 2.6                                  | Autonomous induced investment                            | 3 | PPT and Lecture | Google meet, Study Material |
| 2.7                                  | MEC and rate of interest                                 | 3 | PPT and Lecture | Google meet, Study Material |
| <b>UNIT-III IS &amp; LM FUNCTION</b> |  |   |                 |                             |
| 3.1                                  | Equilibrium of product Market                            | 2 | PPT and Lecture | Google meet, Study Material |
| 3.2                                  | Equilibrium of money markets                             | 3 | PPT and Lecture | Google meet, Study Material |
| 3.3                                  | General equilibrium of product & money markets           | 3 | PPT and Lecture | Google meet, Study Material |
| 3.4                                  | shifts in IS & LM elasticities                           | 2 | PPT and Lecture | Google meet, Study Material |
| 3.5                                  | classical range –intermediate range and Keynesian range- | 3 | PPT and Lecture | Google meet, Study Material |
| 3.6                                  | IS&LM model with Foreign trade sector.                   | 2 | PPT and Lecture | Google meet, Study Material |
| <b>UNIT-IV BUSINESS CYCLE</b>        |  |   |                 |                             |
| 4.1                                  | Theories of Schumpeter, —                                | 2 | PPT and Lecture | Google meet, Study Material |
| 4.2                                  | Kaldor's Theory of business cycle.                       | 2 | PPT and Lecture | Google meet, Study Material |

|                               |                                       |   |                 |                             |
|-------------------------------|---------------------------------------|---|-----------------|-----------------------------|
| 4.3                           | Samuelson and Hicks,                  | 2 | PPT and Lecture | Google meet, Study Material |
| 4.4                           | Goodwin's model;                      | 3 | PPT and Lecture | Google meet, Study Material |
| 4.5                           | Control of business cycles            | 3 | PPT and Lecture | Google meet, Study Material |
| 4.6                           | Relative efficacy of monetary policy. | 2 | PPT and Lecture | Google meet, Study Material |
| 4.7                           | Relative efficacy of fiscal policy.   | 1 | PPT and Lecture | Google meet, Study Material |
| UNIT- V MACRO ECONOMIC POLICY |                                       |   |                 |                             |
| 5.1                           | Objectives of Macroeconomic policy    | 2 | PPT and Lecture | Google meet, Study Material |
| 5.2                           | Phillip's curve and unemployment      | 2 | PPT and Lecture | Google meet, Study Material |
| 5.3                           | stagflation-                          | 2 | PPT and Lecture | Google meet, Study Material |
| 5.4                           | Keynesianism versus monetarism        | 3 | PPT and Lecture | Google meet, Study Material |
| 5.5                           | supply side economics                 | 3 | PPT and Lecture | Google meet, Study Material |

|                           |   |   |                 |  |
|---------------------------|---|---|-----------------|--|
| 5.6                       | Current macroeconomic scenario: national  | 2 | PPT and Lecture | Google meet, Study Material            |
| 57                        | Current macroeconomic scenario: International                                     | 1 | PPT and Lecture | Google meet, Study Material            |
| <b>UNIT -6 : DYNAMISM</b> |   |   |                 |  |
| 6.1                       | Analysis and interpretation of the status of the economy.                         |   |                 | Students report submission through PPT |
| 6.2                       | Data collection of macro variables (GDP, National Income, Export etc)             |   |                 | Students report submission             |
| 6.3                       | Analysis of the psychological law of consumption with change in income and demand |   |                 | Students report submission             |
| 6.4                       | Savings Analysis with relevant country or inter-country data.                     |   |                 | Students report submission             |
| 6.5                       | Unemployment analysis with relevant country or inter-country data.                |   |                 | Students report submission through PPT |
| 6.6                       | Investment analysis with relevant country or inter-country data.                  |   |                 | Students report submission through PPT |

**TEXT BOOK:**

Jhingan, M.L. (1983). *Macro Economics*, Konark Publishers Private Limited, Delhi 1<sup>st</sup> Edition.

**REFERENCE BOOKS:**

1. Demburg, (1989). *Macro Economics*, McGraw-Hill Book Company.
2. Edward Shapiro, (1989). *Macro Economics*, Suneel Galgotia Publications Private Limited, New Delhi.

3. Dr. Gupta, R.D. *Keynes and Post Keynesian Economics*, Kalayani Publishers, New Delhi.
4. Ahuja, H.L. (2013). *Macroeconomics Theory and Policy*, S.Chand Publishers.
5. Allen .R.G.D (1971). *Macroeconomic Theory* , Mathematical Treatment.
6. Harvey, (1971) *Macro Economics*, London Macmillan Company Limited.
7. Dernburg .Thoman,.F (1968) *Macroecnomics- The Measurement Analysis And Control*, Dun Lanm Mcdougall -3<sup>rd</sup> new york : mc graw –hill book company.
8. Gordon, R.A. [1961], *Business Fluctuations*, Harper and Row.
9. Gordon, R.A. and L.R. Klein [ Eds.] *Readings in Business Cycles*, Irwin Homewood.
10. Hicks, J.R. [1950], *A Contribution to the Theory of Trade Cycles*, Clarendon Press, Oxford.
11. Lucas, R. [1981], *Studies in Business Cycle Theory*, M.I.T. Press Cambridge, Masscehusetts.
12. Rakesh Bijlani [2011] *Business Cycles Theory and Practice*, Adhyayan Publishers and distributors, New Delhi.
13. Navaro Peter [2006] *Managing the Business Cycle*, Pearson Publishers, New Delhi.

**Course Designer: (Dr. S.Ivy Jeno)**  
**the Head of the Department**

**Forwarded By**



**II SEMESTER  
I MA ECONOMICS**

|                        |
|------------------------|
| <b>TOTAL CHANGE 3%</b> |
|------------------------|

(For those who joined in 2019 onwards)

| PROGRAMME CODE | COURSE CODE               | COURSE TITLE                   | HRS/WEEK | CREDITS  |
|----------------|---------------------------|--------------------------------|----------|----------|
| PAEC           | <b>19PG2E</b><br><b>5</b> | <b>MACRO ECONOMIC ANALYSIS</b> | <b>6</b> | <b>4</b> |

### COURSE DESCRIPTION

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### COURSE OBJECTIVES

4. Impart theoretical skills in students at macro level.
5. Enable the students to know the modern existing application oriented theories.
6. Equip them to face IES, IAS exams and NET exam

### UNIT-I NATIONAL INCOME

[15 HRS]

|                  |
|------------------|
| <b>CHANGE 3%</b> |
|------------------|

Concept: Micro- Macro relations-stock and flow relationships – national income and social accounting- NNP, GNP at current prices, market prices-factor prices. **Trends in the growth of GDP (Self study)- Inflation – Deflation**

### UNIT-II CONSUMPTION AND INVESTMENT FUNCTION

[15 HRS]

Consumption Function: The short run consumption function – the relative income hypothesis – the permanent income hypothesis and the absolute income hypothesis- the long run consumption function. Autonomous induced investment, MEC and rate of interest. **Trends in Autonomous Investment(Self study)**

### UNIT-III IS & LM FUNCTION

[15 HRS]

IS & LM Function: General equilibrium of product and money markets- shifts in IS & LM elasticities- classical range –intermediate range and Keynesian range- IS&LM model with Foreign trade sector. **Foreign trade trends- (Self study)**

### UNIT-IV BUSINESS CYCLE

[15 HRS]

Theories of Schumpeter, Kaldor, Samuelson and Hicks, Goodwin's model; Control of business cycles — relative efficacy of monetary and fiscal policies. **Tariff Policy- (Self study)**

### UNIT- V MACRO ECONOMIC POLICY

[15 HRS]

Macroeconomic Policy: Objectives of Macroeconomic policy –Phillip's curve and unemployment- stagflation- Keynesianism versus monetarism- supply side economics. Current macroeconomic scenario: national and international. **Unemployment trends in India- (Self study)**

### UNIT –VI DYNAMISM

Analysis and interpretation of the status of the economy -Data collection of macro variables (GDP, National Income, Export etc) - Analysis of the psychological law of consumption with change in income and demand - Concept analysis like unemployment, savings, investment etc with relevant country or inter-country data.

### REFERENCES

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#### REFERENCE BOOKS:

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- 2.Edward Shapiro,(1989). *Macro Economics*, Suneel Galgotia Publications Private Limited, New Delhi.
- 3.Dr. Gupta, R.D. *Keynes and Post Keynesian Economics*, Kalayani Publishers, New Delhi.
- 4 Ahuja,H.L(2013). *Macroeconomics Theory and Policy*, S.Chand Publishers.
5. Allen .R.G.D (1971). *Macroeconomic Theory* , Mathematical Treatment.
- 6 Harvey, (1971) *Macro Economics*, London Macmaillan Company Limited.

7. Dernburg, Thoman, F. (1968) *Macroeconomics- The Measurement Analysis And Control*, Dun Lanm McDougall -3<sup>rd</sup> new york : mc graw -hill book company.
8. Gordon, R.A. [1961], *Business Fluctuations*, Harper and Row.
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10. Hicks, J.R. [1950], *A Contribution to the Theory of Trade Cycles*, Clarendon Press, Oxford.
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12. Rakesh Bijlani [2011] *Business Cycles Theory and Practice*, Adhyayan Publishers and distributors, New Delhi.
13. Navaro Peter [2006] *Managing the Business Cycle*, Pearson Publishers, New Delhi.

#### COURSE CONTENTS & LECTURE SCHEDULE

| Module No.                  | Topic                                  | No. of Lectures | Content Delivery Method | Teaching Aids |
|-----------------------------|--|-----------------|-------------------------|---------------|
| <b>UNIT -1 INTRODUCTION</b> |  |                 |                         |               |
| 1.1                         | Micro- Macro relations                 | 2               | Lecture                 | PPT           |
| 1.2                         | stock and flow relationships           | 2               | Lecture                 | Black Board   |
| 1.3                         | national income and social accounting. | 3               | Chalk & Talk            | Black Board   |
| 1.4                         | NNP, at current prices, market prices  | 3               | Lecture                 | Black Board   |
| 1.5                         | GNP at current prices, market prices   | 3               | Lecture                 | Black Board   |
| 1.6                         | factor prices.                         | 2               | Chalk & Talk            | Black Board   |

| <b>UNIT -2 : CONSUMPTION AND INVESTMENT FUNCTION</b> |  |   |            |             |
|--|--|---|------------|-------------|
| 2.1  | The short run consumption function                       | 2 | Lecture    | Black Board |
| 2.2  | relative income hypothesis                               | 2 | Lecture    | Black Board |
| 2.3  | permanent income hypothesis                              | 1 | Discussion | Black Board |
| 2.4  | absolute income hypothesis                               | 2 | Lecture    | Black Board |
| 2.5  | long run consumption function                            | 2 | Lecture    | PPT         |
| 2.6  | Autonomous induced investment                            | 3 | Discussion | Online      |
| 2.7  | MEC and rate of interest                                 | 3 | Lecture    | Black Board |
| <b>UNIT -3 :IS &amp; LM FUNCTION</b>                 |  |   |            |             |
| 3.1  | Equilibrium of product Market                            | 2 | Lecture    | Black Board |
| 3.2  | Equilibrium of money markets                             | 3 | Lecture    | Black Board |
| 3.3  | General equilibrium of product & money markets           | 3 | Lecture    | PPT         |
| 3.4  | shifts in IS & LM elasticities                           | 2 | Discussion | Black Board |
| 3.5  | classical range –intermediate range and Keynesian range- | 3 | Lecture    | LCD         |
| 3.6  | IS&LM model with Foreign trade sector.                   | 2 | Discussion | Black Board |
| <b>UNIT-4 : BUSINESS CYCLE</b>                       |  |   |            |             |
| 4.1  | Theories of Schumpeter, —                                | 2 | Lecture    | Black Board |
| 4.2  | Kaldor's Theory of business cycle.                       | 2 | Lecture    | PPT         |

|                                      |   |   |              |  |
|--------------------------------------|---|---|--------------|--|
| 4.3                                  | Samuelson and Hicks,                                      | 2 | Discussion   | Black Board                            |
| 4.4                                  | Goodwin's model;  | 3 | Chalk & Talk | Black Board                            |
| 4.5                                  | Control of business cycles                                | 3 | Chalk &Talk  | Black Board                            |
| 4.6                                  | Relative efficacy of monetary policy.                     | 2 | Discussion   | Black Board                            |
| 4.7                                  | Relative efficacy of fiscal policy.                       | 1 | Lecture      | Black Board                            |
| <b>UNIT -5 MACRO ECONOMIC POLICY</b> |   |   |              |  |
| 5.1                                  | Objectives of Macroeconomic policy                        | 2 | Lecture      | PPT                                    |
| 5.2                                  | Phillip's curve and unemployment                          | 2 | Lecture      | Black Board                            |
| 5.3                                  | stagflation-  | 2 | Lecture      | Black Board                            |
| 5.4                                  | Keynesianism versus monetarism                            | 3 | Discussion   | Black Board                            |
| 5.5                                  | supply side economics                                     | 3 | Lecture      | Black Board                            |
| 5.6                                  | Current macroeconomic scenario: national                  | 2 | Discussion   | Black Board                            |
| 57                                   | Current macroeconomic scenario: International             | 1 | Lecture      | PPT                                    |
| <b>UNIT -6 : DYNAMISM</b>            |   |   |              |  |
| 6.1                                  | Analysis and interpretation of the status of the economy. |   |              | Students report submission through PPT |

|     |   |  |  |  |
|-----|---|--|--|--|
| 6.2 | Data collection of macro variables (GDP, National Income, Export etc)             |  |  | Students report submission             |
| 6.3 | Analysis of the psychological law of consumption with change in income and demand |  |  | Students report submission             |
| 6.4 | Savings Analysis with relevant country or inter-country data.                     |  |  | Students report submission             |
| 6.5 | Unemployment analysis with relevant country or inter-country data.                |  |  | Students report submission through PPT |
| 6.6 | Investment analysis with relevant country or inter-country data.                  |  |  | Students report submission through PPT |

| Levels | C1      | C2               | C3     | C4           | Total Scholastic Marks | Non Scholastic Marks<br>C5 | CIA Total | Percentage of Assessment |
|--------|---------|------------------|--------|--------------|------------------------|----------------------------|-----------|--------------------------|
|        | Seminar | Better of W1, W2 | M1+ M2 | MID-SEM TEST |                        |                            |           |                          |
|        | 5 Mks.  | 5Mks.            | 10 Mks | 15 Mks       | 35 Mks.                | 5 Mks.                     | 40 Mks.   |                          |
| K2     | 5       | -                | -      | 2 ½          | -                      |                            | -         | -                        |

|                       |   |   |    |     |    |   |    |      |
|-----------------------|---|---|----|-----|----|---|----|------|
| <b>K3</b>             | - | 5 | 4  | 2 ½ | 5  |   | 5  | 12.5 |
| <b>K4</b>             | - | - | 3  | 5   | 12 |   | 12 | 30   |
| <b>K5</b>             | - | - | 3  | 5   | 9  |   | 9  | 22.5 |
| <b>Non Scholastic</b> | - | - | -  | -   | 9  |   | 9  | 22.5 |
| <b>Total</b>          | 5 | 5 | 10 | 15  | 35 | 5 | 40 | 100  |

| CIA            |    |
|----------------|----|
| Scholastic     | 35 |
| Non Scholastic | 5  |
|                | 40 |

## EVALUATION PATTERN

| SCHOLASTIC |    |    |    |    | NON - SCHOLASTIC | MARKS |     |       |
|------------|----|----|----|----|------------------|-------|-----|-------|
| C1         | C2 | C3 | C4 | C5 | C6               | CIA   | ESE | Total |
| 10         | 10 | 5  | 5  | 5  | 5                | 40    | 60  | 100   |

### • PG CIA Components

|           |                      | Nos |          |
|-----------|----------------------|-----|----------|
| <b>C1</b> | - Test (CIA 1)       | 1   | - 10 Mks |
| <b>C2</b> | - Test (CIA 2)       | 1   | - 10 Mks |
| <b>C3</b> | - Assignment         | 2 * | - 5 Mks  |
| <b>C4</b> | - Open Book Test/PPT | 2 * | - 5 Mks  |

| SCHOLASTIC | NON - SCHOLASTIC | MARKS |
|------------|------------------|-------|
|------------|------------------|-------|

**C5** - Seminar 1 - 5 Mks

**C6** - Attendance - 5 Mks

***\*The best out of two will be taken into account***

## COURSE OUTCOMES

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

| NO.         | COURSE OUTCOMES   | KNOWLEDGE LEVEL<br>(ACCORDING TO REVISED BLOOM'S TAXONOMY) | PSOs ADDRESSED |
|-------------|---|--|----------------|
| <b>CO 1</b> | Evaluate the modern existing application oriented theories  | K2   | PSO1& PSO2     |
| <b>CO 2</b> | Derive a plan to compete and win the competitive examinations like IAS,IES,and NET                    | K2, K3   | PSO3           |
| <b>CO 3</b> | Identify the impact of fluctuations in macroeconomic concepts on economic growth.                     | K2, K4   | PSO5           |
| <b>CO 4</b> | Assess the policies implemented by government to set right the economic problems faced by the nation. | K2, K3 & K4  | PSO4           |
| <b>CO 5</b> | Identify the changes in the economic scenario and evaluate the current economic growth.               | K3& K5   | PSO4           |

### Mapping COs Consistency with PSOs

| CO/ PSO    | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|------------|------|------|------|------|------|
| <b>CO1</b> | 3    | 3    | 3    | 3    | 3    |



|            |   |   |   |   |   |
|------------|---|---|---|---|---|
| <b>CO2</b> | 3 | 3 | 3 | 3 | 3 |
| <b>CO3</b> | 3 | 3 | 3 | 3 | 3 |
| <b>CO4</b> | 3 | 3 | 3 | 3 | 3 |
| <b>CO5</b> | 3 | 3 | 3 | 3 | 3 |

**Note:** ♦ Strongly Correlated – **3**      ♦ Moderately Correlated – **2**

♦ Weakly Correlated -**1**

### **Mapping COs Consistency with POs**

| <b>CO/ PO</b> | <b>PO1</b> | <b>PO2</b> | <b>PO3</b> | <b>PO4</b> | <b>PO5</b> | <b>PO6</b> | <b>PO7</b> |
|---------------|------------|------------|------------|------------|------------|------------|------------|
| <b>CO1</b>    | 3          | 3          | 3          | 3          | 3          | 3          | 3          |
| <b>CO2</b>    | 3          | 3          | 3          | 2          | 3          | 3          | 2          |
| <b>CO3</b>    | 3          | 3          | 2          | 3          | 3          | 2          | 3          |
| <b>CO4</b>    | 3          | 2          | 3          | 3          | 3          | 1          | 3          |
| <b>CO5</b>    | 3          | 3          | 3          | 1          | 3          | 3          | 3          |

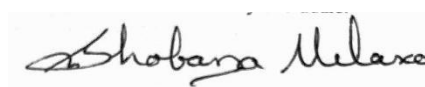
**Note:** ♦ Strongly Correlated – **3**      ♦ Moderately Correlated – **2**

♦ Weakly Correlated -**1**

**COURSE DESIGNER:**



**Staff Name Dr.S.IvyJeno**



**Forwarded By**

**Dr.ShobanaNelasco**

**HOD NAME AND SIGN**

**III SEMESTER****OLD****MAJOR CORE****DEVELOPMENT ECONOMICS – 19PG3E9**

(For those who joined in 2019 onwards)

**HOURS/WEEK: 5****CREDIT:4****COURSE DESCRIPTION**

This course deals with meaning and measurement of economic growth and development, growth theories and models also covers theories of foreign direct investment and foreign aid. The role of technological transfers and Brain train are investigated. This course analyses the cultural/social institutions, social-overhead capital, and poverty and income distribution.

**COURSE OBJECTIVE/S**

1. To equip the student with sound knowledge to appear for IES, IAS, NET, SET, JRF and other competitive examinations.
2. To enrich the knowledge of the students about the various concepts, theories and models of economic development.
3. To enable the students to understand the role of foreign Aid and foreign capital in Economic Development
4. To study the importance of Technological development and Brain drain in the Global era

**COURSE OUTCOMES (CO)**

| No   | COURSE OUTCOME   | KNOWLEDGE LEVEL |
|------|--|-----------------|
| CO 1 | Explain the models and Theories of Economics Development                       | K1/K2/K3        |
| CO 2 | Analyse the impact of Transfer of Technology and Brain drain                   | K2/K3/K4        |
| CO 3 | Assess the role of state in Economic Development                               | K3              |
| CO 4 | Evaluate the impact of foreign capital and Foreign aid on Economic Development | K2/K3/K4        |
| CO 5 | Identify the technological development in India and to                         | K2/K3/K4        |

|  |   |  |
|--|---|--|
|  | discuss the Effect of Development Oriented Economic policies. |  |
|--|---|--|

## **UNIT I: MODELS OF ECONOMIC DEVELOPMENT**

**[15HRS]**

Growth and Development –Classical and Neo classical Approaches - Harrod / Domar Model and its application – Mahalanobis model – Joan Robinsons model – Kaldor and Meade model. - **Amarthya Sen’s capability approach to economic development.(Self Study)**

## **UNIT II: THEORIES OF GROWTH AND DEVELOPMENT [15 HRS]**

The Vicious Circle Theory – The stages of Growth – Lewis Theory of Surplus -Surplus labour – Big Push – **Balanced and Unbalanced growth (Self Study)** – Critical Minimum effort – Low level of Equilibrium trap –The wage Goods Model - Solow’s Theoretical Model.

## **UNIT III:STATE AND ECONOMIC DEVELOPMENT [15 HRS]**

Creation Of Social and Economic Overheads - Agricultural Development – Industrial Development – Reduction Of Inequalities – Optimum Allocation Of Resources And Creation Of Full Employment – Development Oriented Economic Policies –Changes In Institutional Framework – **State Participation In Economic Development-(Self Study).**

## **UNIT IV: FOREIGN CAPITAL AND AID IN ECONOMIC DEVELOPMENT [15Hrs]**

Types Of Foreign Capital - Role Of Foreign Aid – Case For Foreign Aid – Case Against Foreign Aid – **Tied Vs Untied Aid(Self Study)** – Factors Determining The Amount Of Foreign Aid For Economic Development – Aid Or Trade Two – gap model – A Critical Appraisal – Costs And Benefits Of Aid – Its Implications

## **UNIT V: [15 HRS]**

Role Of Technology In Economic Development – Transfer Of Technology To Underdeveloped Countries – **Choice Of Appropriate Technology (Self Study)** – Brain Drain – Technological Development In India.

## **UNIT VI - DYNAMISM/CURRENTAFFAIR:**

Case study on impact of Technology on Agriculture,Analysis of Technological Development In India, Impact of Foreign Direct Investment on the Indian economy.

## COURSE CONTENTS & TEACHING/LEARNING SCHEDULE

| Module No.  | Topic  | No. of Lectures | Content Delivery Method | Teaching Aids          |
|---|--|-----------------|-------------------------|------------------------|
| <b>Unit -1 MODELS OF ECONOMIC DEVELOPMENT</b>               |  |                 |                         |                        |
| 1.1   | Growth and Development –Classical and Neo classical Approaches - Harrod / Domar Model and its application – Mahalanobis model                  | 8               | Chalk & Talk            | Black Board            |
| 1.1:1   | Joan Robinsons model – Kaldor and Meade model. - Amartya Sen's capability approach to economic development.                                    | 7               | Lecture                 | LCD                    |
| <b>UNIT II: UNIT II: THEORIES OF GROWTH AND DEVELOPMENT</b> |  |                 |                         |                        |
| 2.1   | The Vicious Circle Theory – The stages of Growth – Lewis Theory of Surplus -Surplus labour – Big Push – Balanced and Unbalanced growth         | 8               | Lecture                 | Smart Board            |
| 2.1.2   | – Critical Minimum effort – Low level of Equilibrium trap –The wage Goods Model - Solow's Theoretical Model                                    | 7               | Lecture                 | Black Board            |
| <b>UNIT III STATE AND ECONOMIC DEVELOPMENT</b>              |  |                 |                         |                        |
| 3.1   | Creation Of Social and Economic Overheads - Agricultural Development – Industrial Development – Reduction Of Inequalities – Optimum Allocation | 8               | Blended Teaching        | Google classroom , PPT |

|   |   |   |                                 |                  |
|---|---|---|---------------------------------|------------------|
|   | Of Resources And Creation Of Full Employment –  |   |                                 |                  |
| 3.2   | – Development Oriented Economic Policies –Changes In Institutional Framework – State Participation In Economic Development.                         | 7 | Flipped Learning                | PPT              |
| <b>Unit -IV : FOREIGN CAPITAL AND AID IN ECONOMIC DEVELOPMENT</b> |   |   |                                 |                  |
| 4.1   | Types Of Foreign Capital - Role Of Foreign Aid – Case For Foreign Aid – Case Against Foreign Aid  | 6 | Lecture                         | WhiteBoard       |
| 4.2   | – Tied Vs Untied Aid – Factors Determining The Amount Of Foreign Aid For Economic Development – Aid Or Trade Two – gap model – A Critical Appraisal | 5 | Chalk & Talk                    | Black Board      |
| 4.3   | Costs And Benefits Of Aid – Its Implications  | 4 | Lecture                         | LCD              |
| <b>UNIT V TECHNOLOGICAL CHANGE AND ECONOMIC DEVELOPMENT</b>       |   |   |                                 |                  |
| <b>:</b>  |   |   |                                 |                  |
| 5.1   | Role Of Technology In Economic Development – Transfer Of Technology To Underdeveloped Countries   | 7 | Lecture                         | Black Board      |
| 5.2   | Choice Of Appropriate Technology – Brain Drain – Technological Development In India.  |   | Flipped Learning, Brainstorming | Google classroom |
| <b>UNIT VI: DYNAMISM</b>  |   |   |                                 |                  |

|     |   |  |                 |                   |
|-----|---|--|-----------------|-------------------|
| 6.1 | Impact of Technology on Agriculture                       |  | Survey Guidance | Case Study        |
| 6.2 | Analysis of Technological Development In India            |  | Survey Guidance | Analytical Skills |
| 6.3 | Impact of Foreign Direct Investment on the Indian economy |  | Survey Guidance | PPT               |

### **TEXT BOOKS:**

### **REFERENCE BOOKS:**

1. R.K. Lekhi, "Economics of Growth Planning", Kalyani Publishers, New Delhi, 4<sup>th</sup> Edition, 1996.
2. K.R. Gupta, "Economics of Growth Planning", Ramlal Pury of Atma Ram & Sons, Delhi, 2<sup>nd</sup> Edition, 1971.
3. M.L. Jhingan, "Economics of Development and Planning", Konark Publishers Private Limited, Delhi, 26<sup>th</sup> Edition, 1993.
4. R.L. Goel, Meenakshi Prakashan, "Economics of Growth Planning", New Delhi, 5<sup>th</sup> Edition, [ Revised & Enlarged],
5. K.D. Gaur, Sarup & Sons, "Economics of Growth Planning", New Delhi,
6. 1<sup>st</sup> Edition 1995.
7. Taneja Myer " Economics of Development and Planning " Shoban Lal Nagin
8. Chand & Co Jalandhar City -144004

**Course Designer: (Dr. M. Regina Mary)**  
**Department**

**Forwarded By the Head of the**

NEW

## II MA ECONOMICS

TOTAL CHANGE 2%

(For those who joined in 2019 onwards)

| PROGRAMME CODE | COURSE CODE | COURSE TITLE          | HRS/WEEK | CREDITS |
|----------------|-------------|-----------------------|----------|---------|
| PAEC           | 19PG3E<br>9 | DEVELOPMENT ECONOMICS | 6        | 4       |

### COURSE DESCRIPTION

This course deals with meaning and measurement of economic growth and development, growth theories and models also covers theories of foreign direct investment and foreign aid. The role of technological transfers and Brain train are investigated. This course analyses the cultural/social institutions, social-overhead capital, and poverty and income distribution.

### COURSE OBJECTIVE/S

5. To equip the student with sound knowledge to appear for IES, IAS, NET, SET, JRF and other competitive examinations.
6. To enrich the knowledge of the students about the various concepts, theories and models of economic development.
7. To enable the students to understand the role of foreign Aid and foreign capital in Economic Development
8. To study the importance of Technological development and Brain drain in the Global era

### UNIT I: MODELS OF ECONOMIC DEVELOPMENT

[15HRS]

Growth and Development –Classical and Neo classical Approaches - Harrod / Domar Model and its application – Mahalanobis model – Joan Robinsons model – Kaldor and Meade model. - **Amarthya Sen's capability approach to economic development.(Self Study)**

### UNIT II: THEORIES OF GROWTH AND DEVELOPMENT

[15 HRS]

The Vicious Circle Theory – The stages of Growth – Lewis Theory of Surplus -Surplus labour – Big Push Theory – **Balanced and Unbalanced growth**

**(Self Study)** – Critical Minimum effort – Low level of Equilibrium trap –The wage Goods Model - Solow's Theoretical Model.

### **UNIT III: STATE AND ECONOMIC DEVELOPMENT**

**[15 HRS]**

**CHANGE 2%**

Creation Of Social and Economic Overheads - Agricultural Development – Industrial Development – Reduction Of Inequalities – Optimum Allocation Of Resources And Creation Of Full Employment – **impact of COVID 19 On Economy** Development Oriented Economic Policies –Changes In Institutional Framework – **State Participation In Economic Development-(Self Study).**

### **UNIT IV: FOREIGN CAPITAL AND AID IN ECONOMIC DEVELOPMENT**

**[15HRS]**

Types Of Foreign Capital - Role Of Foreign Aid – Case For Foreign Aid – Case Against Foreign Aid – **Tied Vs Untied Aid(Self Study)** – Factors Determining The Amount Of Foreign Aid For Economic Development – Aid Or TradeTwo – gap model – A Critical Appraisal – Costs And Benefits Of Aid – Its Implications

### **UNIT V: TECHNOLOGICAL CHANGE AND ECONOMIC DEVELOPMENT[15 HRS]**

Role Of Technology In Economic Development – Transfer Of Technology To Underdeveloped Countries – **Choice Of Appropriate Technology (Self Study)** – Brain Drain – Technological Development In India.

### **UNIT VI - DYNAMISM/CURRENTAFFAIR:**

Case study on impact of Technology on Agriculture, Analysis of Technological Development In India, Impact of Foreign Direct Investment on the Indian economy.

#### **REFERENCE BOOKS:**

9. R.K. Lekhi, "Economics of Growth Planning", Kalyani Publishers, New Delhi, 4<sup>th</sup> Edition, 1996.
10. K.R. Gupta, "Economics of Growth Planning", RamlalPury of Atma Ram & Sons, Delhi, 2<sup>nd</sup> Edition, 1971.
11. M.L. Jhingan, "Economics of Development and Planning", Konark Publishers Private Limited, Delhi, 26<sup>th</sup> Edition, 1993.
12. R.L. Goel, Meenakshi Prakashan, "Economics of Growth Planning", New Delhi, 5<sup>th</sup> Edition, [ Revised & Enlarged],



13. K.D. Gaur, Sarup & Sons, "Economics of Growth Planning", New Delhi,
14. 1<sup>st</sup> Edition 1995.
15. Taneja Myer "Economics of Development and Planning" Shoban Lal Nagin

Chand & Co Jalandhar City -144004

## COURSE CONTENTS & LECTURE SCHEDULE

| Module No.  | Topic  | No. of Lectures | Teaching Pedagogy | Teaching Aids |
|---|--|-----------------|-------------------|---------------|
| <b>Unit -1 MODELS OF ECONOMIC DEVELOPMENT</b>               |  |                 |                   |               |
| 1.1   | Growth and Development –Classical and Neo classical Approaches - Harrod / Domar Model and its application – Mahalanobis model          | 8               | Lecture           | Black Board   |
| 1.1:1   | Joan Robinsons model – Kaldor and Meade model. - Amartya Sen's capability approach to economic development.                            | 7               | Lecture           | LCD           |
| <b>UNIT II: UNIT II: THEORIES OF GROWTH AND DEVELOPMENT</b> |  |                 |                   |               |
| 2.1   | The Vicious Circle Theory – The stages of Growth – Lewis Theory of Surplus -Surplus labour – Big Push – Balanced and Unbalanced growth | 8               | Lecture           | Smart Board   |
| 2.1.2   | – Critical Minimum effort – Low level of Equilibrium trap –The wage Goods Model - Solow's Theoretical Model                            | 7               | Lecture           | Black Board   |
| <b>UNIT III STATE AND ECONOMIC DEVELOPMENT</b>              |  |                 |                   |               |
| 3.1   | Creation Of Social and Economic Overheads - Agricultural   | 8               | Lecture           | Block board   |

|   |  |   |              |                       |
|---|--|---|--------------|-----------------------|
|   | Development – Industrial Development – Reduction Of Inequalities – Optimum Allocation Of Resources And Creation Of Full Employment –               |   |              |                       |
| 3.2   | – Development Oriented Economic Policies –Changes In Institutional Framework – State Participation In Economic Development.                        | 7 | Lecture      | Black Board           |
| <b>Unit -IV : FOREIGN CAPITAL AND AID IN ECONOMIC DEVELOPMENT</b> |  |   |              |                       |
| 4.1   | Types Of Foreign Capital - Role Of Foreign Aid – Case For Foreign Aid – Case Against Foreign Aid   | 6 | Lecture      | WhiteBoard            |
| 4.2   | – Tied Vs Untied Aid – Factors Determining The Amount Of Foreign Aid For Economic Development – Aid Or TradeTwo – gap model – A Critical Appraisal | 5 | Chalk & Talk | Block Board           |
| 4.3   | Costs And Benefits Of Aid – Its Implications   | 4 | Lecture      | Text Books /Materials |
| <b>UNIT V TECHNOLOGICAL CHANGE AND ECONOMIC DEVELOPMENT</b>       |  |   |              |                       |
| <b>:</b>  |  |   |              |                       |
| 5.1   | Role Of Technology In Economic Development – Transfer Of Technology To Underdeveloped Countries  | 7 | Lecture      | Block Board           |
| 5.2   |  |   | Lecture      | Block Board           |

|                   |  |  |  |                   |
|-------------------|--|--|--|-------------------|
|                   | Choice Of Appropriate Technology – Brain Drain – Technological Development In India. |  |  |                   |
| UNIT VI: DYNAMISM |  |  |  |                   |
| 6.1               | Impact of Technology on Agriculture  |  |  | Case Study        |
| 6.2               | Analysis of Technological Development In India                                       |  |  | Analytical Skills |
| 6.3               | Impact of Foreign Direct Investment on the Indian economy                            |  |  | PPT               |

| Levels         | C1                | C2                        | C3              | C4                    | Total Scholastic Marks | Non Scholastic Marks<br>C5 | CIA Total | Percentage of Assessment |
|----------------|-------------------|---------------------------|-----------------|-----------------------|------------------------|----------------------------|-----------|--------------------------|
|                | Seminar<br>5 Mks. | Better of W1, W2<br>5Mks. | M1+M2<br>10 Mks | MID-SEMITES<br>15 Mks | 35 Mks.                | 5 Mks.                     | 40Mks.    |                          |
| K2             | 5                 | -                         | -               | 2 ½                   | -                      |                            | -         | -                        |
| K3             | -                 | 5                         | 4               | 2 ½                   | 5                      |                            | 5         | 12.5                     |
| K4             | -                 | -                         | 3               | 5                     | 12                     |                            | 12        | 30                       |
| K5             | -                 | -                         | 3               | 5                     | 9                      |                            | 9         | 22.5                     |
| Non Scholastic | -                 | -                         | -               | -                     | 9                      |                            | 9         | 22.5                     |
| Total          | 5                 | 5                         | 10              | 15                    | 35                     | 5                          | 40        | 100                      |

| CIA            |           |
|----------------|-----------|
| Scholastic     | <b>35</b> |
| Non Scholastic | <b>5</b>  |
|                | <b>40</b> |

## EVALUATION PATTERN

| SCHOLASTIC |    |    |    |    | NON - SCHOLASTIC | MARKS |     |       |
|------------|----|----|----|----|------------------|-------|-----|-------|
| C1         | C2 | C3 | C4 | C5 | C6               | CIA   | ESE | Total |
| 10         | 10 | 5  | 5  | 5  | 5                | 40    | 60  | 100   |

### • PG CIA Components

|           |                      | Nos |          |
|-----------|----------------------|-----|----------|
| <b>C1</b> | - Test (CIA 1)       | 1   | - 10 Mks |
| <b>C2</b> | - Test (CIA 2)       | 1   | - 10 Mks |
| <b>C3</b> | - Assignment         | 2 * | - 5 Mks  |
| <b>C4</b> | - Open Book Test/PPT | 2 * | - 5 Mks  |
| <b>C5</b> | - Seminar            | 1   | - 5 Mks  |
| <b>C6</b> | - Attendance         |     | - 5 Mks  |

***\*The best out of two will be taken into account***

## COURSE OUTCOMES

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

| <b>NO.</b>  | <b>COURSE OUTCOMES</b>   | <b>KNOWLEDGE LEVEL<br/>(ACCORDING TO REVISED BLOOM'S TAXONOMY)</b> | <b>PSOs ADDRESSED</b> |
|-------------|--|--|-----------------------|
| <b>CO 1</b> | Discuss the models of Economics Development                                    | K2   | PSO1& PSO2            |
| <b>CO 2</b> | Analyse the theories of Economics Development                                  | K2, K3   | PSO3                  |
| <b>CO 3</b> | Assess the role of state in Economic Development                               | K2, K4   | PSO5                  |
| <b>CO 4</b> | Evaluate the impact of foreign capital and Foreign aid on Economic Development | K2, K3 & K4  | PSO4                  |
| <b>CO 5</b> | Analyse the impact of Transfer of Technology and Brain drain                   | K3& K5   | PSO4                  |

### Mapping COs Consistency with PSOs

| <b>CO/ PSO</b> | <b>PSO1</b> | <b>PSO2</b> | <b>PSO3</b> | <b>PSO4</b> | <b>PSO5</b> |
|----------------|-------------|-------------|-------------|-------------|-------------|
| <b>CO1</b>     | 3           | 3           | 3           | 3           | 3           |
| <b>CO2</b>     | 3           | 3           | 3           | 3           | 3           |
| <b>CO3</b>     | 3           | 3           | 3           | 3           | 3           |
| <b>CO4</b>     | 3           | 3           | 3           | 3           | 3           |
| <b>CO5</b>     | 3           | 3           | 3           | 3           | 3           |

**Note:** ♦ Strongly Correlated – **3**      ♦ Moderately Correlated – **2**

♦ Weakly Correlated -**1**

### Mapping COs Consistency with POs

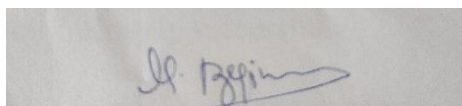
| CO/ PO     | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
|------------|-----|-----|-----|-----|-----|-----|-----|
| <b>CO1</b> | 3   | 3   | 3   | 3   | 3   | 3   | 3   |
| <b>CO2</b> | 3   | 3   | 3   | 2   | 3   | 3   | 2   |
| <b>CO3</b> | 3   | 3   | 2   | 3   | 3   | 2   | 3   |
| <b>CO4</b> | 3   | 2   | 3   | 3   | 3   | 1   | 3   |
| <b>CO5</b> | 3   | 3   | 3   | 1   | 3   | 3   | 3   |

**Note:** ♦ Strongly Correlated – **3**

♦ Moderately Correlated – **2**

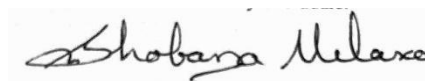
♦ Weakly Correlated -**1**

**COURSE DESIGNER:**



**Staff Name**

**Dr. M. Regina Mary**



**Forwarded By**

**Dr. Shobana Nelasco**

**HOD NAME AND SIGN**

**III SEMESTER**  
**MAJOR CORE**  
**ECONOMETRICS – 19PG3E10**  
 (For those who joined in 2019 onwards)

**HOURS/WEEK: 6**

**CREDIT:4**

**COURSE DESCRIPTION**

The course provides an introduction to econometrics which concentrates on the understanding of basic concepts through explanation and example.

**COURSE OBJECTIVE/S**

Develop students' skills in the use of econometric techniques

To enable the students to acquire knowledge on accurate forecasting skills

To facilitate economics oriented exams like IES and other exams like IAS, NET etc

**COURSE OUTCOMES (CO)**

| NO.  | COURSE OUTCOME  | KNOWLEDGE LEVEL |
|------|---|-----------------|
| CO 1 | Facilitate students familiar with the application of econometrics in Economic theory.                               | K1/K2           |
| CO 2 | Enable students to interpret and grasp the essentials of regression output to allow them to access journal articles | K2              |
| CO 3 | Demonstrate knowledge of regression analysis OLS  | K1              |
| CO 4 | Appraise the problems associated with using OLS when classical assumptions are violated                             | K3              |
| CO 5 | Distinguish between different functional forms and justify which are appropriate for estimating economic models     | K2              |
| CO 6 | Identify the causality between the economic variables   | K1              |
| CO 7 | Enable the students to use the dummy variables in economic modelling.   | K2              |

**UNIT I: INTRODUCTION [15 HRS]**

Definition of Econometrics - Econometrics and Mathematical economics, Econometrics and statistics - Types of Data: Time Series, Cross Section and Panel data - Stochastic and Non-stochastic Relations - Reason for inclusion of error term in econometric model - Properties of Least Squares Estimators [ Theory only] -OLS-Assumptions.

**UNIT II: SIMPLE & MULTIPLE REGRESSION ANALYSIS [15 HRS]**

Simple Linear Regression Model: Functional Forms of Regression Models - Simple Problems in Simple Linear Regression. Multiple Regression Model: Estimation - Goodness of fit-  $R^2$  and Adjusted  $R^2$  - Application and Interpretation.

**UNIT III: VIOLATIONS OF CLASSICAL ASSUMPTIONS: REGRESSION DIAGNOSTICS [15 HRS]**

Autocorrelation – Meaning - Reasons for autocorrelation - Detection of Autocorrelation –Durbin Watson Test – Remedies, Heteroscedasticity - Reasons for heteroscedasticity - Tests for Heteroscedasticity – Goldfeld – Quandt test, Multicollinearity: Meaning - Reasons for Multicollinearity - Test for Detecting Multicollinearity.

**UNIT IV: DYNAMIC ECONOMETRIC MODELS [15 HRS]**

Autoregressive Model: Meaning - Distributed Lag Models: Meaning-Reasons for Lag: Estimation of Distributed Lag Model – The Koyck Approach.

**UNIT V: DUMMY VARIABLES [15 HRS]**

Nature of dummy variables- Use of dummy variables for measuring the shift of a function over time -. Use of dummy variables for measuring the change in parameters [ slopes] over time - Use of dummy variables in seasonal analysis.

**UNIT VI - DYNAMISM/CURRENTAFFAIR**

A case study on application of econometric model in Primary, secondary and service sector - Application of econometric tools in their Empirical research project - Comprehensive Test.

**COURSE CONTENTS & TEACHING/LEARNING SCHEDULE**

| Module No.                  | Topic                      | No. of Lectures | Content Delivery Method | Teaching Aids |
|-----------------------------|----------------------------|-----------------|-------------------------|---------------|
| <b>UNIT I: INTRODUCTION</b> |                            |                 |                         |               |
| 1.1                         | Definition of Econometrics | 3               | Lecture                 | PPT           |



|  |   |   |         |          |
|--|---|---|---------|----------|
| 1.2  | Econometrics and Mathematical economics Econometrics and statistics   | 2 | Lecture | PPT      |
| 1.3  | Types of Data: Time Series, Cross Section and Panel data              | 4 | Lecture | PPT      |
| 1.4  | Stochastic and Non-stochastic Relations                               | 3 | Lecture | PPT      |
| 1.4.1  | Reason for inclusion of error term in econometric model               | 2 | Lecture | PPT      |
| 1.4.2  | Properties of Least Squares Estimators [ Theory only]                 | 2 | Lecture | PPT      |
| 1.4.3  | OLS-Assumptions.  | 2 | Lecture | PPT      |
| <b>UNIT II: SIMPLE &amp; MULTIPLE REGRESSION ANALYSIS</b>                    |   |   |         |          |
| 2.1  | Simple Linear Regression Model: Functional Forms of Regression Models | 3 | Lecture | Jamboard |
| 2.1.1  | Simple Problems in Simple Linear Regression.                          | 4 | Lecture | Jamboard |
| 2.2  | Multiple Regression Model: Estimation -                               | 4 | Lecture | Jamboard |
| 2.3  | Goodness of fit- $R^2$ and Adjusted $R^2$ -                           | 2 | Lecture | Jamboard |
| 2.4  | Application and Interpretation.                                       | 2 | Lecture | Jamboard |
| <b>UNIT III: VIOLATIONS OF CLASSICAL ASSUMPTIONS: REGRESSION DIAGNOSTICS</b> |   |   |         |          |
| 3.1  | Autocorrelation – Meaning   | 1 | Lecture | PPT      |
| 3.1.1  | Reasons for autocorrelation - Detection of Autocorrelation            | 4 | Lecture | PPT      |
| 3.1.2  | Durbin Watson Test – Remedies,  | 2 | Lecture | Jamboard |

|  |   |   |              |                      |
|--|---|---|--------------|----------------------|
| 3.2  | Heteroscedasticity - Reasons for heteroscedasticity                                       | 3 | Lecture      | Jamboard             |
| 3.2.1                                      | Tests for Heteroscedasticity – Goldfeld and Quandt test                                   | 2 | Lecture      | Jamboard             |
| 3.3  | Multicollinearity: Meaning - Reasons for Multicollinearity                                | 2 | Lecture      | Jamboard             |
| 3.3.1                                      | Test for Detecting Multicollinearity  | 1 | Lecture      | Jamboard             |
| <b>UNIT IV: DYNAMIC ECONOMETRIC MODELS</b> |   |   |              |                      |
| 4.1  | Autoregressive Model: Meaning   | 3 | Lecture      | Jamboard             |
| 4.2  | Distributed Lag Models: Meaning   | 4 | Lecture      | Jamboard             |
| 4.2.1                                      | Reasons for Lag   | 4 | Lecture      | Jamboard             |
| 4.2.2                                      | Estimation of Distributed Lag Model – The Kyock Approach.                                 | 4 | Lecture      | Jamboard             |
| <b>UNIT V: DUMMY VARIABLES</b>             |   |   |              |                      |
| 5.1  | Meaning and Nature of dummy variables   | 3 | Lecture      | PPT                  |
| 5.2  | Use of dummy variables for measuring the shift of a function over time.                   | 4 | Lecture      | PPT                  |
| 5.3  | Use of dummy variables for measuring the change in parameters [ slopes] over time         | 4 | Lecture      | PPT                  |
| 5.4  | Use of dummy variables in seasonal analysis   | 4 | Lecture      | PPT                  |
| <b>UNIT VI - DYNAMISM/CURRENTAFFAIR</b>    |   |   |              |                      |
| 6.1  | A case study on application of econometric model in Primary, secondary and service sector | - | Discussion   | PPT                  |
| 6.2  | Application of econometric tools in their Empirical research project                      | - | Discussion   | Mini research report |
| 6.3  | Comprehensive Test.   | - | Written test | UGC NET/SET Books    |

#### REFERENCE BOOKS:

1. Badi H. Baltagi, "Econometrics", Springer publication, U.S.A., 2005.
2. Gujarati, Damodar N, "Basic Econometrics", MC Graw - Hill, International Edition, 2004.
3. Johnston J, "Econometric Methods", MC Graw - Hill, New York, 1984.
4. Koutsoyiannis, "A Theory of Econometrics", Harper & Row, New York, 2004.
5. Maddala G.S, "Introduction to Econometrics", John Wiley & Sons Ltd., 2005.
6. Madnani G.M.K, "Introduction to Econometrics" Oxford & IBH Publishing Co. Pvt. Ltd., 1994.
7. Metha Madani, "Econometrics", Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi, 2001.
8. Singh, S.P, Parashar, A.K, and Singh, H.P., "Econometrics", S. Chand & Co. Pvt. Ltd., New Delhi, 1999.
9. S. Shyamala, "Econometrics Theory and Applications", Vishal Publishing Co., Jalandhar-Delhi, 2009.

**Course Designer: Dr. P.ANITA**

**Forwarded By the Head of the Department**

**III SEMESTER**  
**II MA ECONOMICS**

|                 |
|-----------------|
| TOTAL CHANGE 7% |
|-----------------|

(For those who joined in 2019 onwards)

| PROGRAMME CODE | COURSE CODE  | COURSE TITLE | HRS/WEEK | CREDITS |
|----------------|--------------|--------------|----------|---------|
| PAEC           | 19PG3E1<br>0 | ECONOMETRICS | 6        | 4       |

### COURSE DESCRIPTION

The course provides an introduction to econometrics which concentrates on the understanding of basic concepts through explanation and example.

### COURSE OBJECTIVE/S

Develop students' skills in the use of econometric techniques

To enable the students to acquire knowledge on accurate forecasting skills

To facilitate economics oriented exams like IES and other exams like IAS, NET etc

#### UNIT I: INTRODUCTION [15 HRS]

Definition of Econometrics - Econometrics and Mathematical economics, Econometrics and statistics - Types of Data: Time Series, Cross Section and Panel data - Stochastic and Non-stochastic Relations - Reason for inclusion of error term in econometric model - Properties of Least Squares Estimators [ Theory only] -OLS-Assumptions.

#### UNIT II: SIMPLE & MULTIPLE REGRESSION ANALYSIS [15 HRS]

Simple Linear Regression Model: Functional Forms of Regression Models - Simple Problems in Simple Linear Regression. Multiple Regression Model: Estimation - Goodness of fit-  $R^2$  and Adjusted  $R^2$  - Application and Interpretation.

#### UNIT III: VIOLATIONS OF CLASSICAL ASSUMPTIONS: REGRESSION DIAGNOSTICS [15 HRS]

Autocorrelation – Meaning - Reasons for autocorrelation - Detection of Autocorrelation –Durbin Watson Test – Remedies, Heteroscedasticity - Reasons for heteroscedasticity - Tests for Heteroscedasticity – Goldfeld – Quandt test, Multicollinearity: Meaning - Reasons for Multicollinearity - Test for Detecting Multicollinearity.

**UNIT IV: DYNAMIC ECONOMETRIC MODELS**

**[15 HRS]**

Autoregressive Model: Meaning - Distributed Lag Models: Meaning-Reasons for Lag: Estimation of Distributed Lag Model – The Koyck Approach.

**UNIT V: DUMMY VARIABLES**

**[15 HRS]**

|           |
|-----------|
| CHANGE 7% |
|-----------|

Nature of dummy variables- Use of dummy variables for measuring the shift of a function over time -. Use of dummy variables for measuring the change in parameters [ slopes] over time Use of Dummy Variables as proxy for qualitative and quantitative variables - Use of dummy variables in seasonal analysis.

**UNIT VI - DYNAMISM/CURRENTAFFAIR**

A case study on application of econometric model in Primary, secondary and service sector - Application of econometric tools in their Empirical research project - Comprehensive Test.

**REFERENCE BOOKS:**

10. Badi H. Baltagi, "Econometrics", Springer publication, U.S.A., 2005.
11. Gujarati, Damodar N, "Basic Econometrics", MC Graw - Hill, International Edition, 2004.
12. Johnston J, "Econometric Methods", MC Graw - Hill, New York, 1984.
13. Koutsoyiannis, "A Theory of Econometrics", Harper & Row, New York, 2004.
14. Maddala G.S, "Introduction to Econometrics", John Wiley & Sons Ltd., 2005.
15. Madnani G.M.K, "Introduction to Econometrics" Oxford & IBH Publishing Co. Pvt. Ltd., 1994.
16. MethaMadani, "Econometrics", Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi, 2001.

17. Singh, S.P, Parashar, A.K, and Singh, H.P., "Econometrics", S. Chand & Co. Pvt. Ltd., New Delhi, 1999.
18. S. Shyamala, "Econometrics Theory and Applications", Vishal Publishing Co., Jalandhar-Delhi,2009.

### **COURSE CONTENTS & LECTURE SCHEDULE**

| <b>Module No.</b>   | <b>Topic</b>   | <b>No. of Lectures</b> | <b>Teaching Pedagogy</b> | <b>Teaching Aids</b>  |
|---|--|------------------------|--------------------------|-----------------------|
| <b>UNIT I: INTRODUCTION</b>                               |  |                        |                          |                       |
| 1.1   | Definition of Econometrics   | 3                      | Lecture                  | Black Board           |
| 1.2   | Econometrics and Mathematical economics<br>Econometrics and statistics | 2                      | Lecture                  | PPT                   |
| 1.3   | Types of Data: Time Series, Cross Section and Panel data               | 4                      | Lecture                  | PPT & Black board     |
| 1.4   | Stochastic and Non-stochastic Relations                                | 3                      | Lecture                  | Smart Board           |
| 1.4.1   | Reason for inclusion of error term in econometric model                | 2                      | Lecture                  | Black Board           |
| 1.4.2   | Properties of Least Squares Estimators [ Theory only]                  | 2                      | Lecture                  | PPT                   |
| 1.4.3   | OLS-Assumptions.   | 2                      | Lecture                  | PPT                   |
| <b>UNIT II: SIMPLE &amp; MULTIPLE REGRESSION ANALYSIS</b> |  |                        |                          |                       |
| 2.1   | Simple Linear Regression Model: Functional Forms of Regression Models  | 3                      | Lecture                  | Green Board<br>Charts |

|  |  |   |                      |                   |
|--|--|---|----------------------|-------------------|
| 2.1.1  | Simple Problems in Simple Linear Regression.               | 4 | Chalk & Talk         | Green Board       |
| 2.2  | Multiple Regression Model: Estimation -                    | 4 | Lecture/Chalk & Talk | Green Board       |
| 2.3  | Goodness of fit- $R^2$ and Adjusted $R^2$ -                | 2 | Lecture              | Green Board       |
| 2.4  | Application and Interpretation.                            | 2 | Lecture              | Green Board       |
| <b>UNIT III: VIOLATIONS OF CLASSICAL ASSUMPTIONS: REGRESSION DIAGNOSTICS</b> |  |   |                      |                   |
| 3.1  | Autocorrelation – Meaning                                  | 1 | Lecture/Chalk & Talk | Green Board & PPT |
| 3.1.1  | Reasons for autocorrelation - Detection of Autocorrelation | 4 | Lecture              | Green Board & PPT |
| 3.1.2  | Durbin Watson Test – Remedies,                             | 2 | Lecture              | Green Board       |
| 3.2  | Heteroscedasticity - Reasons for heteroscedasticity        | 3 | Lecture/Chalk & Talk | PPT & Green Board |
| 3.2.1  | Tests for Heteroscedasticity – Goldfeld and Quandt test    | 2 | Lecture              | Green Board       |
| 3.3  | Multicollinearity: Meaning - Reasons for Multicollinearity | 2 | Lecture              | Green Board & PPT |
| 3.3.1  | Test for Detecting Multicollinearity                       | 1 | Lecture/Chalk & Talk | Green Board       |
| <b>UNIT IV: DYNAMIC ECONOMETRIC MODELS</b>                                   |  |   |                      |                   |
| 4.1  | Autoregressive Model: Meaning                              | 3 | Lecture              | Green Board       |

|   |   |   |                      |                      |
|---|---|---|----------------------|----------------------|
| 4.2                                     | Distributed Lag Models: Meaning   | 4 | Lecture/Chalk & Talk | Green Board          |
| 4.2.1                                   | Reasons for Lag   | 4 | Lecture              | Green Board          |
| 4.2.2                                   | Estimation of Distributed Lag Model – The Kyock Approach.                                 | 4 | Lecture/Chalk & Talk | Green Board          |
| <b>UNIT V: DUMMY VARIABLES</b>          |   |   |                      |                      |
| 5.1                                     | Meaning and Nature of dummy variables   | 3 | Lecture              | PPT & Black board    |
| 5.2                                     | Use of dummy variables for measuring the shift of a function over time.                   | 4 | Lecture              | PPT & Black board    |
| 5.3                                     | Use of dummy variables for measuring the change in parameters [ slopes] over time         | 4 | Lecture              | PPT & Black board    |
| 5.4                                     | Use of dummy variables in seasonal analysis   | 4 | Lecture              | PPT & Black board    |
| <b>UNIT VI - DYNAMISM/CURRENTAFFAIR</b> |   |   |                      |                      |
| 6.1                                     | A case study on application of econometric model in Primary, secondary and service sector | - | Discussion           | Black board          |
| 6.2                                     | Application of econometric tools in their Empirical research project                      | - | Discussion           | Mini research report |
| 6.3                                     | Comprehensive Test.   | - | Written test         | UGC NET/SET Books    |

| Levels | C1 | C2 | C3 | C4 | Total Scholastic Marks | Non Scholastic Marks<br>C5 | CIA Total | Percentage of Assessment |
|--------|----|----|----|----|------------------------|----------------------------|-----------|--------------------------|
|--------|----|----|----|----|------------------------|----------------------------|-----------|--------------------------|



|                       | Seminar  | Better of W1, W2 | M1+ M2    | MID-SEM TEST |           |          |           |            |
|-----------------------|----------|------------------|-----------|--------------|-----------|----------|-----------|------------|
|                       | 5 Mks.   | 5Mks.            | 10 Mks    | 15 Mks       | 35 Mks.   | 5 Mks.   | 40Mks.    |            |
| <b>K2</b>             | 5        | -                | -         | 2 ½          | -         |          | -         | -          |
| <b>K3</b>             | -        | 5                | 4         | 2 ½          | 5         |          | 5         | 12.5       |
| <b>K4</b>             | -        | -                | 3         | 5            | 12        |          | 12        | 30         |
| <b>K5</b>             | -        | -                | 3         | 5            | 9         |          | 9         | 22.5       |
| <b>Non Scholastic</b> | -        | -                | -         | -            | 9         |          | 9         | 22.5       |
| <b>Total</b>          | <b>5</b> | <b>5</b>         | <b>10</b> | <b>15</b>    | <b>35</b> | <b>5</b> | <b>40</b> | <b>100</b> |

| CIA            |           |
|----------------|-----------|
| Scholastic     | <b>35</b> |
| Non Scholastic | <b>5</b>  |
|                | <b>40</b> |

## EVALUATION PATTERN

| SCHOLASTIC |           |           |           |           | NON - SCHOLASTIC | MARKS      |           |              |
|------------|-----------|-----------|-----------|-----------|------------------|------------|-----------|--------------|
| <b>C1</b>  | <b>C2</b> | <b>C3</b> | <b>C4</b> | <b>C5</b> | <b>C6</b>        | <b>CIA</b> | <b>ES</b> | <b>Total</b> |
| <b>10</b>  | <b>10</b> | <b>5</b>  | <b>5</b>  | <b>5</b>  | <b>5</b>         | <b>40</b>  | <b>60</b> | <b>100</b>   |

- **PG CIA Components**

|           |                      | <b>Nos</b> |          |
|-----------|----------------------|------------|----------|
| <b>C1</b> | - Test (CIA 1)       | 1          | - 10 Mks |
| <b>C2</b> | - Test (CIA 2)       | 1          | - 10 Mks |
| <b>C3</b> | - Assignment         | 2 *        | - 5 Mks  |
| <b>C4</b> | - Open Book Test/PPT | 2 *        | - 5 Mks  |
| <b>C5</b> | - Seminar            | 1          | - 5 Mks  |
| <b>C6</b> | - Attendance         |            | - 5 Mks  |

***\*The best out of two will be taken into account***

## COURSE OUTCOMES

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

| NO.         | COURSE OUTCOMES   | KNOWLEDGE LEVEL<br>(ACCORDING TO REVISED BLOOM'S TAXONOMY) | PSOs ADDRESSED |
|-------------|---|--|----------------|
| <b>CO 1</b> | Facilitate students familiar with the application of econometrics in Economic theory.                               | K2   | PSO1           |
| <b>CO 2</b> | Enable students to interpret and grasp the essentials of regression output to allow them to access journal articles | K2, K3   | PSO4           |
| <b>CO 3</b> | Demonstrate knowledge of regression analysis OLS  | K2, K4   | PSO2           |

|             |   |             |      |
|-------------|---|-------------|------|
| <b>CO 4</b> | Appraise the problems associated with using OLS when classical assumptions are violated                         | K2, K3 & K4 | PSO3 |
| <b>CO 5</b> | Distinguish between different functional forms and justify which are appropriate for estimating economic models | K3& K5      | PSO5 |

### Mapping COs Consistency with PSOs

| CO/ PSO    | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|------------|------|------|------|------|------|
| <b>CO1</b> | 3    | 3    | 3    | 3    | 3    |
| <b>CO2</b> | 3    | 3    | 3    | 3    | 3    |
| <b>CO3</b> | 3    | 2    | 3    | 3    | 3    |
| <b>CO4</b> | 3    | 3    | 2    | 3    | 3    |
| <b>CO5</b> | 3    | 3    | 3    | 3    | 2    |

**Note:** ♦ Strongly Correlated – 3      ♦ Moderately Correlated – 2

♦ Weakly Correlated -1

### Mapping COs Consistency with POs

| CO/ PO     | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
|------------|-----|-----|-----|-----|-----|-----|-----|
| <b>CO1</b> | 3   | 3   | 3   | 3   | 3   | 3   | 3   |
| <b>CO2</b> | 3   | 3   | 3   | 2   | 3   | 3   | 2   |
| <b>CO3</b> | 3   | 3   | 2   | 3   | 3   | 2   | 3   |
| <b>CO4</b> | 3   | 2   | 3   | 3   | 3   | 1   | 3   |
| <b>CO5</b> | 3   | 3   | 3   | 1   | 3   | 3   | 3   |

**Note:** ♦ Strongly Correlated – 3

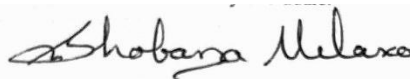
♦ Moderately Correlated – 2

♦ Weakly Correlated -1

**COURSE DESIGNER:**



**Staff NAME AND SIGN ANITA**



**Forwarded By**

**Dr.Shobana Nelasco**

**HOD NAME AND SIGN**

**III SEMESTER**  
**19PG3E11 RESEARCH METHODOLOGY**

(For those who joined in 2019 onwards)

**HOURS/WEEK: 6**

**CREDIT: 4**

**COURSE DESCRIPTION**

Gain knowledge on basic research problems

**COURSE OBJECTIVE/S**

**Objectives:**

1. Students may gain knowledge in general definition of research design.
2. Students should know why educational research is undertaken, and the audiences that profit from research studies.
3. Able to identify the overall process of designing a research study from its inception to its report.
4. Students should be familiar with ethical issues in educational research, including those issues that arise in using quantitative and qualitative research.
5. Students may know the primary characteristics of quantitative research and qualitative research.
6. Students can be able to identify a research problem with suggestions.

**COURSE OUTCOMES (CO)**

| No.  | Course Outcome   | Knowledge Level |
|------|--|-----------------|
| CO 1 | Understand some basic concepts of research and its methodologies                                       | K1              |
| CO 2 | Identify appropriate research topics and Select and define appropriate research problem and parameters | K2              |
| CO 3 | Prepare a project proposal (to undertake a project)  | K3              |
| CO 4 | Organize and conduct research (advanced project) in a more appropriate manner                          | K4              |

|            |   |    |
|------------|---|----|
| <b>CO5</b> | Write a research report and thesis and proposal for grant and assess critically the case study, structured surveys, interviews, report writing research methods | K5 |
|------------|---|----|

## **UNIT I: NATURE OF RESEARCH**

**[15 Hrs]**

Meaning of Research- Objectives of Research- Motivation in Research- Types of Research- Research approaches - Significance of Research and Scientific Method Research Process - Criteria of Good Research -Problems Encountered by Researchers in India- **Plagiarism check(Self Study)** and Ethics in Research

## **UNIT: II RESEARCH PROBLEM AND RESEARCH DESIGN**

**[15 Hrs]**

Research Problem: Identification of the Problem – Formulation of the Problem- Criteria of a Good Research Problem. **Role of Review of Literature. (Self Study)**  
Research Design: Meaning – Characteristics of a Good Research Design – Components of a Research Design – Types of Research Design.

## **UNIT III: METHODS OF DATA COLLECTION**

**[15 Hrs]**

Primary Data: Mailed Questionnaire, Schedules, Interview Method, Observation and Case Study. Merits and Demerits of Primary Sources.  
Census and Sample Survey – Criteria for Selecting a Sample Procedure – Different Types of Sampling.

Secondary Data:**Sources of Secondary Data(Self Study)** – Precautions in the use of Secondary Data – Merits & Demerits.

## **UNIT IV: FORMULATION AND TESTING OF HYPOTHESIS**

**[ 15 Hrs]**

Definition of Hypothesis. Role of Hypothesis – Types of Hypothesis – Criteria for useful Hypothesis – its Formulation. **Procedure for Testing Hypothesis (Self Study)** – level of significance.

## **UNIT V: PROCESSING OF DATA AND REPORT WRITING**

**[ 15 Hrs]**

Data Processing – Scaling Techniques – Likert's Scale - Tabulation – Editing – Coding – Analysis and Interpretation of Data – Precautions Interpretation – Steps in Report Writing – Format for Research Report – Preliminary, Text, Reference Material – **Foot Note, Index, Bibliography. (Self Study)**

**Practical Evaluation Components using case study, Survey Reports and presentation (PPT or oral):**

1. Seminar and presentation on practical research works
2. Doing individual project in research proposals
- 3, Collecting and writing review of articles with the above tools

### COURSE CONTENTS & TEACHING/LEARNING SCHEDULE

| Module No.   | Topic   | No. of Lectures | Content Delivery Method | Teaching Aids |
|--|---|-----------------|-------------------------|---------------|
| <b>UNIT I: NATURE OF RESEARCH</b>                    |   |                 |                         |               |
| 1.1  | Meaning of Research- Objectives of Research- - Significance of Research -             | 3               | PPT and lecture         | LCD           |
| 1.2  | Motivation in Research- Types of Research   | 3               | You tube videos         | Black board   |
| 1.3  | Research approaches   | 3               | Lecture                 | Class room    |
| 1.4  | Scientific Method Research Process - Criteria of Good Research                        | 3               | PPT and lecture         | LCD           |
| 1.5  | Problems Encountered by Researchers in India.   | 3               | PPT and lecture         | LCD           |
| 1.6  | Plagiarism check and Ethics in Research   | 3               | PPT and lecture         | LCD           |
| <b>UNIT: II RESEARCH PROBLEM AND RESEARCH DESIGN</b> |   |                 |                         |               |
| 2.1  | Research Problem Criteria of a Good Research Problem. Components of a Research Design | 3               | Class room lecture      | black Board   |
| 2.2  | Identification of the Problem – Formulation of the Problem-                           | 3               | Class room lecture      | black Board   |
| 2.3  | Role of Review of Literature.   | 3               | Class room lecture      | Black Board   |
| 2.4  | Research Design Meaning – Characteristics of a Good Research Design                   | 3               | Class room lecture      | Smart Board   |
| 2.5  | Types of Research Design.   | 3               | Class room lecture      | Smart board   |
| <b>UNIT III: METHODS OF DATA COLLECTION</b>          |   |                 |                         |               |

|   |   |   |                        |             |
|---|---|---|------------------------|-------------|
| 3.1   | Primary Data Mailed Questionnaire, Census and Sample Survey —   | 3 | Lecture and discussion | Smart Board |
| 3.2   | Schedules, Interview Method   | 2 | Lecture                | Smart Board |
| 3.3   | Observation and Case Study. Merits and Demerits of Primary Sources.                                       | 3 | Lecture                | Black Board |
| 3.4   | Criteria for Selecting a Sample Procedure   | 2 | Lecture                | Smart Board |
| 3.5   | Different Types of Sampling.  | 3 | Lecture                | Smart Board |
| 3.6   | Secondary Data: Sources of Secondary Data – Precautions in the use of Secondary Data – Merits & Demerits. | 2 | Lecture                | Black Board |
| <b>UNIT IV: FORMULATION AND TESTING OF HYPOTHESIS</b> |   |   |                        |             |
| 4.1   | Definition of Hypothesis. Criteria for useful Hypothesis –  | 3 | Lecture                | Smart Board |
| 4.2   | Role of Hypothesis – Types of Hypothesis –  | 3 | Lecture                | Smart Board |
| 4.3   | Formulation, Procedure for Testing Hypothesis – level of significance.                                    | 3 | Lecture                | Black Board |
| <b>UNIT V: PROCESSING OF DATA AND REPORT WRITING</b>  |   |   |                        |             |
| 5.1   | Data Processing – Scaling Techniques –Analysis and Interpretation of Data –Format for Research Report     | 4 | Lecture                | Black board |
| 5.2   | ,Likert's Scale - Tabulation – Editing – Coding   | 4 | Lecture                | Black board |
| 5.3   | Precautions Interpretation – Steps in Report Writing  | 4 | Lecture                | Black board |
| 5.4   | Preliminary, Text, Reference Material – Foot Note, Index, Bibliography.                                   | 3 | Lecture                | Black board |
| <b>UNIT – VI DYNAMISM</b>                             |   |   |                        |             |



|  |   |  |  |  |
|--|---|--|--|--|
|  | 1. Seminar and presentation on practical research works           |  |  |  |
|  | 2. Doing individual project in research proposals                 |  |  |  |
|  | 3, Collecting and writing review of articles with the above tools |  |  |  |

#### Reference Books:

1. Donald .H. Mc Burney, “Research Methods”, Thomson-Wordsworth, 5<sup>th</sup> Edition, 2003.
2. Ghosh B.N., “Scientific Method & Social Research”, Sterling PublishersPvt.Ltd., New Delhi, 4<sup>th</sup> Edition 1987.
3. Goode and Hatt, “Methods and Social Research”, McGraw Hill International Book Company, 23<sup>rd</sup> Printing, 1983.
4. Gopal Lal Jain,”Research Methodology – Methods tools and Techniques”, Mangal Deep Publications, Jaipur 1998.
5. Kothari C.R., “Research Methodology”, New Age International Publishers, New Delhi,3<sup>rd</sup> reprint Edition, 2004.
6. Sadhu & Singh, “Research Methodology in Social Sciences”, Himalaya Publishing House, Mumbai, 2<sup>nd</sup> Edition,1983.
7. Santosh Gupta, “Research Methodology and Statistical Techniques”, Deep and Deep Publications, New Delhi, 2001.
8. Sonachalam K.S., “Research Methodology of Social Science”, Emerald Publishers, Madras, 1988.
9. Yogesh Kumar Singh and Ruchikanath, “Research Methodology”, A.P.H Publishing Corporation, New Delhi 2005.
10. O.R. Krishnaswamy and M. Ranganathan, “Methodology of Research in Social Sciences”, Himalaya Publishing House, New Delhi, 2006.
11. Villiam .J. Good & paul k. methods in social research hatt mcgraw hill international book company.Andrew J. Oswald “surveys in economics” black well oxford Uk Cambridge USA

<https://www.slideshare.net/DVutkarsh/research-process-and-research-design>

**Course Designer: (Dr. G.UMA )**  
**Department**

**Forwarded By the Head of the**

**III SEMESTER**  
**II MA ECONOMICS**

**TOTAL CHANGE 11 %**

(For those who joined in 2019 onwards)

| PROGRAMME CODE | COURSE CODE                | COURSE TITLE                          | HRS/WEEK | CREDITS  |
|----------------|----------------------------|---------------------------------------|----------|----------|
| PAEC           | <b>19PG3E1</b><br><b>1</b> | <b>RESEARCH</b><br><b>METHODOLOGY</b> | <b>6</b> | <b>5</b> |

**COURSE DESCRIPTION**

The course titled Research Methodology offers the students the necessary research skills for developing research skills and ability.

**COURSE OBJECTIVES**

1. Students may gain knowledge in general definition of research design.
2. Students should know why educational research is undertaken, and the audiences that profit from research studies.
3. Able to identify the overall process of designing a research study from its inception to its report.
4. Students should be familiar with ethical issues in educational research, including those issues that arise in using quantitative and qualitative research.
5. Students may know the primary characteristics of quantitative research and qualitative research.
6. Students can be able to identify a research problem with suggestions.

**UNIT I: NATURE OF RESEARCH**

**[15 Hrs]**

Meaning of Research- Objectives of Research- Motivation in Research- Types of Research- Research approaches - Significance of Research and Scientific Method Research Process - Criteria of Good Research -Problems Encountered by Researchers in India- **Plagiarism check(Self Study)** and Ethics in Research

## **UNIT: II RESEARCH PROBLEM AND RESEARCH DESIGN [15 Hrs]**

Research Problem: Identification of the Problem – Formulation of the Problem- Criteria of a Good Research Problem. **Role of Review of Literature. (Self Study)**

Research Design: Meaning – Characteristics of a Good Research Design – Components of a Research Design – Types of Research Design.

CHANGE 11%

## **UNIT III: METHODS OF DATA COLLECTION [15 Hrs]**

Primary Data: Mailed Questionnaire, Schedules, Interview Method, Observation and Case Study. Merits and Demerits of Primary Sources. Hypothesis testing: Garret ranking – likert scale – Gini ratio – Factor Analysis – Swot Analysis

Census and Sample Survey – Criteria for Selecting a Sample Procedure – Different Types of Sampling.

Secondary Data: Sources of Secondary Data – Precautions in the use of Secondary Data – Merits & Demerits. Student t-test, Chow test, F-test, Z-test, Unit root test, Chi-squared test, Compound growth rate, and Stability Analysis

## **UNIT IV: FORMULATION AND TESTING OF HYPOTHESIS [ 15 Hrs]**

Definition of Hypothesis. Role of Hypothesis – Types of Hypothesis – Criteria for useful Hypothesis – its Formulation. **Procedure for Testing Hypothesis (Self Study)** – level of significance.

## **UNIT V: PROCESSING OF DATA AND REPORT WRITING [ 15 Hrs]**

Data Processing – Scaling Techniques – Likert's Scale - Tabulation – Editing – Coding – Analysis and Interpretation of Data – Precautions Interpretation – Steps in Report Writing – Format for Research Report – Preliminary, Text, Reference Material – **Foot Note, Index, Bibliography.(Self Study)**

**Practical Evaluation Components using case study, Survey Reports and presentation (PPT or oral):**

1. Seminar and presentation on practical research works
2. Doing individual project in research proposals
- 3, Collecting and writing review of articles with the above tools

## Reference Books

12. Donald .H. Mc Burney, “Research Methods”, Thomson-Wordsworth, 5<sup>th</sup> Edition, 2003.
13. Ghosh B.N., “Scientific Method & Social Research”, Sterling Publishers Pvt.Ltd., New Delhi, 4<sup>th</sup> Edition 1987.
14. Goode and Hatt, “Methods and Social Research”, McGraw Hill International Book Company, 23<sup>rd</sup> Printing, 1983.
15. Gopal Lal Jain,”Research Methodology – Methods tools and Techniques”, Mangal Deep Publications, Jaipur 1998.
16. Kothari C.R., “Research Methodology”, New Age International Publishers, New Delhi, 3<sup>rd</sup> reprint Edition, 2004.
17. Sadhu & Singh, “Research Methodology in Social Sciences”, Himalaya Publishing House, Mumbai, 2<sup>nd</sup> Edition, 1983.
18. Santosh Gupta, “Research Methodology and Statistical Techniques”, Deep and Deep Publications, New Delhi, 2001.
19. Sonachalam K.S., “Research Methodology of Social Science”, Emerald Publishers, Madras, 1988.
20. Yogesh Kumar Singh and Ruchikanath, “Research Methodology”, A.P.H Publishing Corporation, New Delhi 2005.
21. O.R. Krishnaswamy and M. Ranganathan, “Methodology of Research in Social Sciences”, Himalaya Publishing House, New Delhi, 2006.
22. Villiam .J. Good & paul k. methods in social research hattmcgraw hill international book company. Andrew J. Oswald “surveys in economics” black well oxford Uk Cambridge USA

<https://www.slideshare.net/DVutkarsh/research-process-and-research-design>

## COURSE CONTENTS & LECTURE SCHEDULE

| Module No.                        | Topic | No. of Lectures | Teaching Pedagogy | Teaching Aids |
|-----------------------------------|-------|-----------------|-------------------|---------------|
| <b>UNIT I: NATURE OF RESEARCH</b> |       |                 |                   |               |

|  |   |   |                        |             |
|--|---|---|------------------------|-------------|
| 1.1  | Meaning of Research- Objectives of Research - Significance of Research                | 3 | PPT and lecture        | LCD         |
| 1.2  | Motivation in Research- Types of Research   | 3 | You tube videos        | Black board |
| 1.3  | Research approaches   | 3 | Lecture                | Class room  |
| 1.4  | Scientific Method Research Process - Criteria of Good Research                        | 3 | PPT and lecture        | LCD         |
| 1.5  | Problems Encountered by Researchers in India.   | 3 | PPT and lecture        | LCD         |
| 1.6  | Plagiarism check and Ethics in Research   | 3 | PPT and lecture        | LCD         |
| <b>UNIT: II RESEARCH PROBLEM AND RESEARCH DESIGN</b> |   |   |                        |             |
| 2.1  | Research Problem Criteria of a Good Research Problem. Components of a Research Design | 3 | Class room lecture     | black Board |
| 2.2  | Identification of the Problem – Formulation of the Problem-                           | 3 | Class room lecture     | black Board |
| 2.3  | Role of Review of Literature.   | 3 | Class room lecture     | Black Board |
| 2.4  | Research Design Meaning – Characteristics of a Good Research Design                   | 3 | Class room lecture     | Smart Board |
| 2.5  | Types of Research Design.   | 3 | Class room lecture     | Smart board |
| <b>UNIT III: METHODS OF DATA COLLECTION</b>          |   |   |                        |             |
| 3.1  | Primary Data Mailed Questionnaire, Census and Sample Survey —                         | 3 | Lecture and discussion | Smart Board |
| 3.2  | Schedules, Interview Method   | 2 | Lecture                | Smart Board |

|   |   |   |         |             |
|---|---|---|---------|-------------|
| 3.3   | Observation and Case Study. Merits and Demerits of Primary Sources.                                       | 3 | Lecture | Black Board |
| 3.4   | Criteria for Selecting a Sample Procedure   | 2 | Lecture | Smart Board |
| 3.5   | Different Types of Sampling.  | 3 | Lecture | Smart Board |
| 3.6   | Secondary Data: Sources of Secondary Data – Precautions in the use of Secondary Data – Merits & Demerits. | 2 | Lecture | Black Board |
| <b>UNIT IV: FORMULATION AND TESTING OF HYPOTHESIS</b> |   |   |         |             |
| 4.1   | Definition of Hypothesis. Criteria for useful Hypothesis –  | 3 | Lecture | Smart Board |
| 4.2   | Role of Hypothesis – Types of Hypothesis –  | 3 | Lecture | Smart Board |
| 4.3   | Formulation, Procedure for Testing Hypothesis – level of significance.                                    | 3 | Lecture | Black Board |
| <b>UNIT V: PROCESSING OF DATA AND REPORT WRITING</b>  |   |   |         |             |
| 5.1   | Data Processing – Scaling Techniques –Analysis and Interpretation of Data –Format for Research Report     | 4 | Lecture | Black board |
| 5.2   | ,Likert's Scale - Tabulation – Editing – Coding   | 4 | Lecture | Black board |
| 5.3   | Precautions Interpretation – Steps in Report Writing  | 4 | Lecture | Black board |
| 5.4   | Preliminary, Text, Reference Material – Foot Note, Index, Bibliography.                                   | 3 | Lecture | Black board |
| <b>UNIT – VI DYNAMISM</b>                             |   |   |         |             |

|  |   |  |  |  |
|--|---|--|--|--|
|  | 1. Seminar and presentation on practical research works           |  |  |  |
|  | 2. Doing individual project in research proposals                 |  |  |  |
|  | 3, Collecting and writing review of articles with the above tools |  |  |  |

| Levels         | C1                | C2                        | C3              | C4                     | Total Scholastic Marks | Non Scholastic Marks<br>C5 | CIA Total | Percentage of Assessment |
|----------------|-------------------|---------------------------|-----------------|------------------------|------------------------|----------------------------|-----------|--------------------------|
|                | Seminar<br>5 Mks. | Better of W1, W2<br>5Mks. | M1+M2<br>10 Mks | MID-SEM TEST<br>15 Mks | 35 Mks.                | 5 Mks.                     | 40Mks.    |                          |
| K2             | 5                 | -                         | -               | 2½                     | -                      |                            | -         | -                        |
| K3             | -                 | 5                         | 4               | 2½                     | 5                      |                            | 5         | 12.5                     |
| K4             | -                 | -                         | 3               | 5                      | 12                     |                            | 12        | 30                       |
| K5             | -                 | -                         | 3               | 5                      | 9                      |                            | 9         | 22.5                     |
| Non Scholastic | -                 | -                         | -               | -                      | 9                      |                            | 9         | 22.5                     |
| Total          | 5                 | 5                         | 10              | 15                     | 35                     | 5                          | 40        | 100                      |

| CIA            |    |
|----------------|----|
| Scholastic     | 35 |
| Non Scholastic | 5  |

|  |           |
|--|-----------|
|  | <b>40</b> |
|--|-----------|

## EVALUATION PATTERN

| SCHOLASTIC |    |    |    |    | NON - SCHOLASTIC | MARKS |     |       |
|------------|----|----|----|----|------------------|-------|-----|-------|
| C1         | C2 | C3 | C4 | C5 | C6               | CIA   | ESE | Total |
| 10         | 10 | 5  | 5  | 5  | 5                | 40    | 60  | 100   |

### • PG CIA Components

|           |   |                    |     | Nos |    |     |  |  |
|-----------|---|--------------------|-----|-----|----|-----|--|--|
| <b>C1</b> | - | Test (CIA 1)       | 1   | -   | 10 | Mks |  |  |
| <b>C2</b> | - | Test (CIA 2)       | 1   | -   | 10 | Mks |  |  |
| <b>C3</b> | - | Assignment         | 2 * | -   | 5  | Mks |  |  |
| <b>C4</b> | - | Open Book Test/PPT | 2 * | -   | 5  | Mks |  |  |
| <b>C5</b> | - | Seminar            | 1   | -   | 5  | Mks |  |  |
| <b>C6</b> | - | Attendance         |     | -   | 5  | Mks |  |  |

***\*The best out of two will be taken into account***

## COURSE OUTCOMES

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

| NO. | COURSE OUTCOMES | KNOWLEDGE LEVEL<br>(ACCORDING TO REVISED | PSOs ADDRESSED |
|-----|-----------------|--|----------------|
|-----|-----------------|--|----------------|



|             |   | <b>BLOOM'S<br/>TAXONOMY)</b> |            |
|-------------|---|------------------------------|------------|
| <b>CO 1</b> | Understand some basic concepts of research and its methodologies  | K2                           | PSO1& PSO2 |
| <b>CO 2</b> | Identify appropriate research topics and Select and define appropriate research problem and parameters  | K2, K3                       | PSO3       |
| <b>CO 3</b> | Prepare a project proposal (to undertake a project)   | K2, K4                       | PSO5       |
| <b>CO 4</b> | Organize and conduct research (advanced project) in a more appropriate manner   | K2, K3 & K4                  | PSO4       |
| <b>CO 5</b> | Write a research report and thesis and proposal for grant and assess critically the case study, structured surveys, interviews, report writing research methods | K3& K5                       | PSO4       |

### **Mapping COs Consistency with PSOs**

| <b>CO/ PSO</b> | <b>PSO1</b> | <b>PSO2</b> | <b>PSO3</b> | <b>PSO4</b> | <b>PSO5</b> |
|----------------|-------------|-------------|-------------|-------------|-------------|
| <b>CO1</b>     | 3           | 3           | 3           | 3           | 3           |
| <b>CO2</b>     | 3           | 3           | 3           | 3           | 3           |
| <b>CO3</b>     | 3           | 3           | 3           | 3           | 3           |
| <b>CO4</b>     | 3           | 3           | 3           | 3           | 3           |
| <b>CO5</b>     | 3           | 3           | 3           | 3           | 3           |

**Note:** ♦ Strongly Correlated – **3**      ♦ Moderately Correlated – **2**  
 ♦ Weakly Correlated -**1**

### Mapping COs Consistency with POs

| CO/ PO     | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
|------------|-----|-----|-----|-----|-----|-----|-----|
| <b>CO1</b> | 3   | 3   | 3   | 3   | 3   | 3   | 3   |
| <b>CO2</b> | 3   | 3   | 3   | 2   | 3   | 3   | 2   |
| <b>CO3</b> | 3   | 3   | 2   | 3   | 3   | 2   | 3   |
| <b>CO4</b> | 3   | 2   | 3   | 3   | 3   | 1   | 3   |
| <b>CO5</b> | 3   | 3   | 3   | 1   | 3   | 3   | 3   |

**Note:** ♦ Strongly Correlated – **3**      ♦ Moderately Correlated – **2**  
 ♦ Weakly Correlated -**1**

**COURSE DESIGNER**



**Staff Name** Dr. G.UMA

**Forwarded By**  
**Dr.ShobanaNelasco**  
**HOD NAME AND SIGN**

**VI SEMESTER**  
**MAJOR-CORE**  
**INDIAN FISCAL SYSTEM – 19PG4E13**

(For those who joined in 2019 onwards)

**HOURS/WEEK: 5**

**CREDIT:4**

**COURSE DESCRIPTION**

This course examines the subject matter of Fiscal economics, Budget and Deficit financing. It emphasizes the problems of Allocation of resources between the Centre-state and local bodies.

**COURSE OBJECTIVE/S**

1. To explain the students about Indian Fiscal System.
2. To create awareness about the Federal Finance.

**COURSE OUTCOMES (CO)**

| No.  | Course Outcome   | Knowledge Level(According to Bloom's Taxonomy) |
|------|--|--|
| CO 1 | Asses India's Tax GST Structure, VAT and GST   | K3   |
| CO 2 | Identify the Causes and growth of Public Expenditure and measures to reduce the same.  | K1/K3  |
| CO 3 | Analyse India's Debt position and Dept policy.   | K3   |
| CO 4 | Discuss the Centre, State and Local financial Relationships and to identify the Problems and Measures to improve their Relationship. | K3/K4  |
| CO 5 | Evaluate Latest Budget and Fiscal Policy.  | K3/K4  |

**UNIT I: PUBLIC REVENUE****[15 Hrs]**

India's Tax Structure – aspects – Evaluation. New economic Policy & Tax structure – Taxation of Services. – Presumptive Taxation – Black Money & Taxation, VAT

**UNIT II: PUBLIC EXPENDITURE****[15 HRS]**

Development & Non-Development expenditure – Plan and Non-Plan expenditure – Major items of expenditure of Centre & State – Growth of Public Expenditure – causes for the growth of deficit- NEP and Expenditure Reforms.

**UNIT III: PUBLIC DEBT****[15 Hrs]**

India's Public Debt – Role - Growth – Burden –effects- Problems – Evaluation of debt policy. Public Debt Management – Debt redemption measures.

**UNIT IV: FEDERAL FINANCE & LOCAL FINANCE****[15 HRS]**

Principles of Federal finance- -Distribution of financial resources under XI&XII Finance Commission- latest finance commission – Problems in Centre state financial relationship.

Local finance-Functions and sources of revenue – measures to improve local finance.

**UNIT V: BUDGET & FISCAL POLICY****[15 HRS]**

Budget-Meaning-types-Preparation and presentation-budget deficit and deficit financing - Measures to check deficit financing –Evaluation of latest budget – Fiscal Policy and Economic Development - India's fiscal policy – evaluation of fiscal policy.

**UNIT VI - DYNAMISM/CURRENTAFFAIR****[15 HRS]**

Trends in India's Public expenditure/Taxation, Trends in India's Public Debt, Analyse the current budget Income and Expenditure of Madurai corporation /Municipalities/Punchayat

**COURSE CONTENTS & TEACHING/LEARNING SCHEDULE**

| <b>Module No.</b>                                     | <b>Topic</b>   | <b>No. of Lectures</b> | <b>Content Delivery Method</b> | <b>Teaching Aids</b> |
|---|--|------------------------|--------------------------------|----------------------|
| <b>Unit -1 PUBLIC REVENUE</b>                         |  |                        |                                |                      |
| 1.1   | India's Tax Structure – aspects – Evaluation. New economic Policy & Tax structure – Taxation of Services.                        | 8                      | Chalk & Talk                   | Black Board          |
| 1.1:1   | Presumptive Taxation – Black Money & Taxation, VAT   | 7                      | Lecture                        | LCD                  |
| <b>UNIT II PUBLIC EXPENDITURE</b>                     |  |                        |                                |                      |
| 2.1   | Development & Non-Development expenditure – Plan and Non-Plan expenditure – Major items of expenditure of Centre & State         | 8                      | Chalk & Talk                   | PPT & White board    |
|   | Growth of Public Expenditure – causes for the growth of deficit- NEP and Expenditure Reforms.                                    | 7                      | Lecture                        | Google classroom     |
| <b>UNIT III :PUBLIC DEBT</b>                          |  |                        |                                |                      |
| 3.1   | India's Public Debt – Role - Growth – Burden –effects- Problems –.   | 8                      | Blended Teaching               | Google classroom     |
| 3.1.1   | Evaluation of debt policy. Public Debt Management – Debt redemption measures   | 7                      | Lecture                        | Black Board          |
| <b>Unit -IV FEDERAL FINANCE &amp; LOCAL FINANCE :</b> |  |                        |                                |                      |
| 4.1   | Principles of Federal finance- -Distribution of financial resources under XI&XII Finance Commission- latest finance commission – | 8                      | Lecture                        | Black Board          |

|   |  |   |                  |                       |
|---|--|---|------------------|-----------------------|
|   | Problems in Centre state financial relationship  |   |                  |                       |
|   | Local finance-Functions and sources of revenue – measures to improve local finance.  | 7 | Chalk & Talk     | Black Board           |
| <b>UNIT V: BUDGET &amp; FISCAL POLICY</b> |  |   |                  |                       |
| 5.1                                       | Budget-Meaning-types-Preparation and presentation-budget deficit and deficit financing - Measures to check deficit financing | 7 | Blended Teaching | Google classroom, PPT |
| 5.2                                       | Evaluation of latest budget – Fiscal Policy and Economic Development - India's fiscal policy – evaluation of fiscal policy.  | 8 | Flipped learning | PPT, Online lectures  |
| <b>UNIT VI - DYNAMISM</b>                 |  |   |                  |                       |
| 6.1                                       | Trends in India's Public expenditure/Taxation  |   | Survey Guidance  | Analytical Skills     |
| 6.2                                       | Trends in India's Public Debt  |   | Survey Guidance  | Analytical Skills     |
| 6.3                                       | Current budget Income and Expenditure of Madurai-Corporation/Municipalities  |   | Survey Guidance  | Case Study            |

### **TEXT BOOKS:**

### **REFERENCE BOOKS:**

1. H.L. Bhatia, "Public Finance", Vikas Publishing House Private Limited, New Delhi, 27<sup>th</sup> Revised Edition, 2017.
2. V.G. Mankar, "Public Finance [ Theory and Practice]", Himalaya Publishing House, Bombay, 1<sup>st</sup> Edition, 1992

3. D.M. Mithani, "Modern Public Finance [ Theory and Practice]", Himalaya Publishing House, Bombay, 1<sup>st</sup> Edition, 2014
- 4 B.P. Tyagi, "Public Finance", Jai Prakash Nath & Company, Meerut, 44<sup>th</sup> Edition, 2016.
5. P.N. Varsney and D. K. Mital, "Indian Financial system", Sultan Chant & Sons., New Delhi, Ediltion 2004.

#### **WEB REFERENCES**

6. [www.blogcatalog.com](http://www.blogcatalog.com)
7. [www.oecd.org](http://www.oecd.org)
8. [www.doi.wiley.com](http://www.doi.wiley.com)

**Course Designer: Dr. M. REGINA MARY    Forwarded By the Head of the  
Department**

**IV SEMESTER**  
**II MA ECONOMICS**

|                        |
|------------------------|
| <b>TOTAL CHANGE 2%</b> |
|------------------------|

(For those who joined in 2019 onwards)

| PROGRAMME CODE | COURSE CODE  | COURSE TITLE         | HRS/WEEK | CREDITS |
|----------------|--------------|----------------------|----------|---------|
| PAEC           | 19PG4E1<br>3 | INDIAN FISCAL SYSTEM | 6        | 5       |

**COURSE DESCRIPTION**

This course examines the subject matter of Fiscal economics, Budget and Deficit financing. It emphasizes the problems of Allocation of resources between the Centre-state and local bodies.

**COURSE OBJECTIVE/S**

3. To explain the students about Indian Fiscal System.
4. To create awareness about the Federal Finance.

**UNIT I: PUBLIC REVENUE**

**[15 HRS]**

India's Tax Structure – aspects – Evaluation. New economic Policy & Tax structure – Taxation of Services. – Presumptive Taxation – **Black Money & Taxation, VAT. (Self Study)**

**UNIT II: PUBLIC EXPENDITURE**

**[15 HRS]**

|           |
|-----------|
| CHANGE 2% |
|-----------|

Development & Non-Development expenditure – Plan and Non-Plan expenditure items of expenditure of Centre & State – Growth of Public Expenditure – causes for the growth of deficit- **Trends in India's Public Expenditure during COVID 19-NEP and Expenditure Reforms. (Self Study)**

**UNIT III: III PUBLIC DEBT**

**[15 HRS]**

India's Public Debt – Role - **Growth – Burden (Self Study)** –effects-Problems – Evaluation of debt policy. Public Debt Management – Debt redemption measures.

**UNIT IV: IV FEDERAL FINANCE & LOCAL FINANCE**

**[15 HRS]**



Principles of Federal finance- -Distribution of financial resources under XI&XII Finance Commission- latest finance commission – Problems in Centre state financial relationship.

**Local finance (Self Study)**- Functions and sources of revenue – measures to improve local finance. **Measures to solve Problem (Self Study)**

**UNIT V: BUDGET &FISCAL POLICY** **[15 Hrs]**

Budget-Meaning-types-Preparation and presentation-budget deficit and deficit financing - Measures to check deficit financing –Evaluation of latest budget – Fiscal Policy and Economic Development - India’s fiscal policy – **Evaluation of fiscal policy. (Self Study)**

**UNIT VI DYNAMISM/CURRENTAFFAIR** **[15 HRS]**

Trends in India’s Public expenditure/Taxation, Trends in India’s Public Debt,Analyse the current budget Income and Expenditure of Madurai corporation /Municipalities/Punchayat

**REFERENCE BOOKS:**

1. H.L. Bhatia,” Public Finance”, Vikas Publishing House Private Limited,New Delhi,27<sup>th</sup> Revised Edition,2017.
- 2.V.G. Mankar, “Public Finance [ Theory and Practice]”, Himalaya Publishing House, Bombay, 1<sup>st</sup> Edition, 1992
- 3.D.M. Mithani, “Modern Public Finance [ Theory and Practice]”, Himalaya Publishing House, Bombay, 1<sup>st</sup> Edition, 2014
4. B.P. Tyagi, “Public Finance”, Jai Prakash Nath & Company, Meerut, 44<sup>th</sup> Edition, 2016.
5. P.N. Varsney and D. K. Mital, “Indian Financial system”, Sultan Chant & Sons., New Delhi, Ediltion 2004.

**WEB REFERENCES**

1. [www.blogcatalog.com](http://www.blogcatalog.com)
2. [www.oecd.org](http://www.oecd.org)
- 3.[www.doi.wiley.com](http://www.doi.wiley.com)

**COURSE CONTENTS & LECTURE SCHEDULE**

| Module No.  | Topic  | No. of Lectures | Teaching Pedagogy | Teaching Aids     |
|---|--|-----------------|-------------------|-------------------|
| <b>Unit -1 PUBLIC REVENUE</b>                         |  |                 |                   |                   |
| 1.1   | India's Tax Structure – aspects – Evaluation. New economic Policy & Tax structure – Taxation of Services.  | 8               | Lecture           | Black Board       |
| 1.1:1   | Presumptive Taxation – Black Money & Taxation, VAT   | 7               | Lecture           | LCD               |
| <b>UNIT II PUBLIC EXPENDITURE</b>                     |  |                 |                   |                   |
| 2.1   | Development & Non-Development expenditure – Plan and Non-Plan expenditure – items of expenditure of Centre & State   | 8               | Lecture           | PPT & White board |
|   | Growth of Public Expenditure – causes for the growth of deficit- NEP and Expenditure Reforms   | 7               | Lecture           | Black Board       |
| <b>UNIT III :PUBLIC DEBT</b>                          |  |                 |                   |                   |
| 3.1   | India's Public Debt – Role - Growth – Burden – effects- Problems   | 8               | Lecture           | Black Board       |
| 3.1.1   | Evaluation of debt policy. Public Debt Management – Debt redemption measures   | 7               |                   | Black Board       |
| <b>UNIT -IV FEDERAL FINANCE &amp; LOCAL FINANCE :</b> |  |                 |                   |                   |
| 4.1   | Principles of Federal finance- -Distribution of financial resources under XI&XII Finance Commission- latest finance commission – Problems in Centre state financial relationship | 8               | Lecture           | Block Board       |

|     |  |   |             |                   |
|-----|--|---|-------------|-------------------|
|     | Local finance-Functions and sources of revenue – measures to improve local finance.  | 7 | Chalk &Talk | Block Board       |
|     | <b>UNIT V: BUDGET &amp;FISCAL POLICY</b>   |   |             |                   |
| 5.1 | Budget-Meaning-types-Preparation and presentation-budget deficit and deficit financing - Measures to check deficit financing | 7 |             | Block Board       |
| 5.2 | Evaluation of latest budget – Fiscal Policy and Economic Development - India's fiscal policy – evaluation of fiscal policy.  | 8 |             | Block Board       |
|     | <b>UNIT VI - DYNAMISM</b>  |   |             |                   |
| 6.1 | Trends in India's Public expenditure/Taxation  |   |             | Analytical Skills |
| 6.2 | Trends in India's Public Debt  |   |             | Analytical Skills |
| 6.3 | current budget Income and Expenditure of Madurai corporation /Municipalities/Punchayat                                       |   |             | Case Study        |

|               | <b>C1</b>      | <b>C2</b>               | <b>C3</b>     | <b>C4</b>           | <b>Total Scholastic Marks</b> | Non Scholastic Marks<br><b>C5</b> | <b>CIA Total</b> | <b>Percentage of Assessment</b> |
|---------------|----------------|-------------------------|---------------|---------------------|-------------------------------|-----------------------------------|------------------|---------------------------------|
| <b>Levels</b> | <b>Seminar</b> | <b>Better of W1, W2</b> | <b>M1+ M2</b> | <b>MID-SEM TEST</b> |                               |                                   |                  |                                 |
|               | <b>5 Mks.</b>  | <b>5Mks.</b>            | <b>10 Mks</b> | <i>15 Mks</i>       | <b>35 Mks.</b>                | <b>5 Mks.</b>                     | <b>40Mks.</b>    |                                 |

|                       |          |          |           |            |           |          |           |             |
|-----------------------|----------|----------|-----------|------------|-----------|----------|-----------|-------------|
| <b>K2</b>             | <b>5</b> | <b>-</b> | <b>-</b>  | <b>2 ½</b> | <b>-</b>  |          | <b>-</b>  | <b>-</b>    |
| <b>K3</b>             | <b>-</b> | <b>5</b> | <b>4</b>  | <b>2 ½</b> | <b>5</b>  |          | <b>5</b>  | <b>12.5</b> |
| <b>K4</b>             | <b>-</b> | <b>-</b> | <b>3</b>  | <b>5</b>   | <b>12</b> |          | <b>12</b> | <b>30</b>   |
| <b>K5</b>             | <b>-</b> | <b>-</b> | <b>3</b>  | <b>5</b>   | <b>9</b>  |          | <b>9</b>  | <b>22.5</b> |
| <b>Non Scholastic</b> | <b>-</b> | <b>-</b> | <b>-</b>  | <b>-</b>   | <b>9</b>  |          | <b>9</b>  | <b>22.5</b> |
| <b>Total</b>          | <b>5</b> | <b>5</b> | <b>10</b> | <b>15</b>  | <b>35</b> | <b>5</b> | <b>40</b> | <b>100</b>  |

| CIA            |           |
|----------------|-----------|
| Scholastic     | <b>35</b> |
| Non Scholastic | <b>5</b>  |
|                | <b>40</b> |

## EVALUATION PATTERN

| SCHOLASTIC |           |           |           |           | NON - SCHOLASTIC | MARKS      |           |              |
|------------|-----------|-----------|-----------|-----------|------------------|------------|-----------|--------------|
| <b>C1</b>  | <b>C2</b> | <b>C3</b> | <b>C4</b> | <b>C5</b> | <b>C6</b>        | <b>CIA</b> | <b>ES</b> | <b>Total</b> |
| <b>10</b>  | <b>10</b> | <b>5</b>  | <b>5</b>  | <b>5</b>  | <b>5</b>         | <b>40</b>  | <b>60</b> | <b>100</b>   |

### • PG CIA Components

|           |   |                    |     | Nos |    |     |  |  |
|-----------|---|--------------------|-----|-----|----|-----|--|--|
| <b>C1</b> | - | Test (CIA 1)       | 1   | -   | 10 | Mks |  |  |
| <b>C2</b> | - | Test (CIA 2)       | 1   | -   | 10 | Mks |  |  |
| <b>C3</b> | - | Assignment         | 2 * | -   | 5  | Mks |  |  |
| <b>C4</b> | - | Open Book Test/PPT | 2 * | -   | 5  | Mks |  |  |

| SCHOLASTIC | NON - SCHOLASTIC | MARKS |
|------------|------------------|-------|
|------------|------------------|-------|

**C5** - Seminar 1 - 5 Mks

**C6** - Attendance - 5 Mks

***\*The best out of two will be taken into account***

## COURSE OUTCOMES

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

| NO.         | COURSE OUTCOMES  | KNOWLEDGE LEVEL<br>(ACCORDING TO REVISED BLOOM'S TAXONOMY) | PSOs ADDRESSED |
|-------------|--|--|----------------|
| <b>CO 1</b> | Asses India's Tax Structure, VAT and GST   | K2   | PSO1& PSO2     |
| <b>CO 2</b> | Identify the Causes and growth of Public Expenditure and measures to reduce the same.  | K2, K3   | PSO3           |
| <b>CO 3</b> | Analyse India's Debt position, Debt management and Debt policy.  | K2, K4   | PSO5           |
| <b>CO 4</b> | Discuss the Centre, State and Local financial Relationships and to identify the Problems and Measures to improve their Relationship. | K2, K3 & K4  | PSO4           |
| <b>CO 5</b> | Evaluate Latest Budget, Deficit financing and Fiscal Policy.   | K3& K5   | PSO4           |

### Mapping COs Consistency with PSOs

| CO/<br>PSO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|------------|------|------|------|------|------|
| CO1        | 3    | 3    | 3    | 3    | 3    |
| CO2        | 3    | 3    | 3    | 3    | 3    |
| CO3        | 3    | 3    | 3    | 3    | 3    |
| CO4        | 3    | 3    | 3    | 3    | 3    |
| CO5        | 3    | 3    | 3    | 3    | 3    |

**Note:** ♦ Strongly Correlated – 3      ♦ Moderately Correlated – 2

♦ Weakly Correlated -1

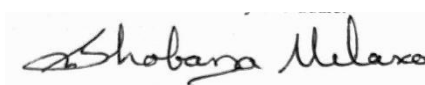
### Mapping COs Consistency with POs

| CO/ PO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
|--------|-----|-----|-----|-----|-----|-----|-----|
| CO1    | 3   | 3   | 3   | 3   | 3   | 3   | 3   |
| CO2    | 3   | 3   | 3   | 2   | 3   | 3   | 2   |
| CO3    | 3   | 3   | 2   | 3   | 3   | 2   | 3   |
| CO4    | 3   | 2   | 3   | 3   | 3   | 1   | 3   |
| CO5    | 3   | 3   | 3   | 1   | 3   | 3   | 3   |

**Note:** ♦ Strongly Correlated – 3      ♦ Moderately Correlated – 2

♦ Weakly Correlated -1

**COURSE DESIGNER:**



**Staff Name**

**Dr. M. REGINA MARY**

**Forwarded By**

**Dr.ShobanaNelasco**

**HOD NAME AND SIGN**

**IV SEMESTER**  
**MAJOR**  
**19PG4E16 - ENVIRONMENTAL ECONOMICS**

(For those who joined in 2019 onwards)

**HOURS/WEEK: 6**

**CREDIT: 4**

**COURSE DESCRIPTION**

Awareness on environmental problems and issues in India and rest of the world

**COURSE OBJECTIVE/S**

1. To make students aware of environmental problems facing our countries
2. To study how economic activities affect the environment.
3. To understand some important and core issues of environment.
4. To improve the knowledge on scarce energy usages
5. To enlighten them on environmental protection efforts
6. To develop understanding of the key concepts of environmental economics and their relevance in the business settings
7. To equip students to apply tools of environmental economics in resolving business.

**COURSE OUTCOMES (CO)**

| No.         | Course Outcome   | Knowledge Level |
|-------------|--|-----------------|
| <b>CO 1</b> | Know core concepts and methods from ecological and physical sciences and their application in environmental problem-solving.                                   | K1              |
| <b>CO 2</b> | Appreciate key concepts from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions. | K2              |

|             |  |    |
|-------------|--|----|
| <b>CO 3</b> | Gain knowledge on ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.   | K3 |
| <b>CO 4</b> | Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.  | K4 |
| <b>CO5</b>  | Prepare an analytical policy report that develops knowledge and practical implementation of relevant economic theory in understanding and addressing an environmental or natural resource issue. | K5 |

## **UNIT I: BASIC CONCEPTS AND THEORIES**

[

**15 Hrs]**

Eco-System - Pollution: Land, water, Air, Noise - Methods of Pollution Control Private Market - Market Failure -Externalities -- Environment as a Public Good – Costs – Benefit analysis of Environment -Coase Theorem

## **UNIT II : ENERGY AND RESOURCES**

**[ 15 Hrs]**

Renewable & Non-renewable Sources of Energy: Thermal, Nuclear, Hydel Power, Solar, Wind & Nuclear Energy - water resource – ground water scarcity

## **UNIT III: INDIAN ENVIRONMENTAL CHALLENGES**

**[ 15**

**Hrs]**

Interlinking of rivers- Cavery water issue – Farmers challenges - Sethu Samuthram Project- Koodankulam Project – Nutrino- Kathiramanthalam Metane issue - Chennai - Salem Greenfield Highway Project- Enayam Port –Sterlite Issue- Kulasai Rocket Launching Issue - Bhopal Gas Tragedy

## **UNIT IV: INTERNATIONAL ENVIRONMENTAL ISSUES:**

**[15 Hrs]**



Carbon Neutral, Chernobyl disaster- Japan nuclear disaster- Clamenseu ship issue--tsunami, Rio – summit deliberations.- Nuclear wars –International waste dumping in sea and space – Environmental ranking of countries

## **UNIT V: ENVIRONMENTAL MANAGEMENT**

**[15 Hrs]**

Economic Instruments – Fiscal Measures, Effluent Charges, Subsidies, Financial Incentives. Non-economic Instruments – Environmental Education, Peoples Participation, Voluntary Organizations – Environmental Regulations and Laws– Disaster Management

## **Unit VI DYNAMISM**

**Practical Evaluation Components using case study, Survey Reports and presentation (PPT or oral):**

Seminar and presentation on case study of core environmental issues

Doing individual projects on current environmental issues

### **COURSE CONTENTS & TEACHING/LEARNING SCHEDULE**

| <b>Module No.</b>                          | <b>Topic</b>   | <b>No. of Lectures</b> | <b>Content Delivery Method</b> | <b>Teaching Aids</b> |
|--|--|------------------------|--------------------------------|----------------------|
| <b>UNIT I: BASIC CONCEPTS AND THEORIES</b> |  |                        |                                |                      |
| 1.1  | Eco-System   | 2                      | PPT and lecture                | LCD                  |
| 1.2  | Pollution, Land, water, Air, noise- Methods of Pollution Control | 4                      | You tube videos                | Black board          |
| 1.3  | Market Failure Externalities and Environment as a public good    | 4                      | lecture                        | Class room           |
| 1.4  | Environment as a Public Good and Coase Theorem                   | 2                      | PPT and lecture                | LCD                  |

|  |  |   |                        |             |
|--|--|---|------------------------|-------------|
| 1.5  | Private Market -- Costs – Benefit analysis of Environment    | 3 | PPT and lecture        | LCD         |
| <b>UNIT II : ENERGY AND RESOURCES</b>              |  |   |                        |             |
| 2.1  | Renewable & Non-renewable Sources of Energy                  | 4 | You tube viedo         | black Board |
| 2.2  | Thermal, Nuclear, Hydel Power                                | 3 | You tube viedo         | black Board |
| 2.3  | Solar, Wind & Nuclear Energy -                               | 4 | You tube viedo         | Black Board |
| 2.4  | water resource – ground water scarcity                       | 4 | You tube viedo         | Smart Board |
| <b>UNIT III: INDIAN ENVIRONMENTAL CHALLENGES</b>   |  |   |                        |             |
| 3.1  | Interlinking of rivers- Cavery water issue                   | 2 | Lecture and discussion | Smart Board |
| 3.2  | Farmers challenges - Sethu Samuthram Project                 | 3 | Lecture                | Smart Board |
| 3.3  | Koodankulam Project – Nutrino-Kathiramamangalam Metane issue | 3 | Lecture                | Black Board |
| 3.4  | Chennai-Salem Greenfield Highway Project                     | 2 | Lecture                | Smart Board |
| 3.5  | Enayam Port, Sterlite Issue- Kulasai Rocket Launching Issue  | 3 | Lecture                | Smart Board |
| 3.6  | Bhopal Gas Tragedy   | 2 | Lecture                | Black Board |
| <b>UNIT IV: INTERNATIONAL ENVIRONMENTAL ISSUES</b> |  |   |                        |             |
| 4.1  | Carbon Neutral, Chernobyl disaster- .-                       | 3 | Lecture & Viedo        | Smart Board |
| 4.2  | Japan nuclear disaster                                       | 3 | Lecture & Viedo        | Smart Board |
| 4.3  | Clamenseu ship issue--tsunami, Rio – summit deliberations    | 3 | Lecture & Viedo        | Black Board |

|   |   |   |                 |             |
|---|---|---|-----------------|-------------|
| 4.4                                     | Nuclear wars –International waste dumping in sea and space –                        | 3 | Lecture & Viedo | Smart Board |
| 4.5                                     | Environmental ranking of countries  | 3 | Lecture & Viedo | Smart Board |
| <b>UNIT V: ENVIRONMENTAL MANAGEMENT</b> |   |   |                 |             |
| 5.1                                     | Economic Instruments – Fiscal Measures, Effluent Charges, Subsidies,–               | 4 | Lecture         | Black board |
| 5.2                                     | Financial Incentives. Non-economic Instruments – Environmental Education,           | 5 | Lecture         | Black board |
| 5.3                                     | Peoples Participation, Voluntary Organizations – Environmental Regulations and Laws | 3 | Lecture         | Black board |
| 5.4                                     | Disaster Management   | 3 | Lecture         | Black board |

### REFERENCE BOOKS

1. Baumol .J. William and Oates .E.Wallace, “The Theory of Environmental Policy Externalities, Public Outlay on the Quality of Life”, Prentice Hall Inc.,1987.
2. Burrows P., “The Economic Theory of Pollution Control”, Marton Robertson Publication, 1988.
3. Dhulasi Birinda, “ Environomics”, Allied Publication, Ahamedabad, 2001.
4. Eugene T., “Environmental Economics”, Vrinda Publication New Delhi, 2004.
5. Karpagam M., “Environmental Economics”, Sterling Publishers Private Ltd.,
6. Mahajan V.S., “Environment Planning, Machinery and Management”, Deep & Deep Publns
7. Maheswar Dayal, “Renewable Energy, Environment and Development”, Konark Publishers, New Delhi, 1989.

8. Kjell Arne Brekke "Economics growth and the environment" Edward Elgar Publishing Limited UK 1997
9. Antonio S. Camara "Environmental systems a multidimensional approach" US by Oxford University Press Inc. New York 2002
10. Alan Cottrell "Environmental economics" Edward Arnold Publisher Ltd. London 1978
11. Antonica Cornwell & John Creedy "Environmental taxes and economic welfare" Edward Elgar Publishing Ltd UK & USA, 1997
12. Andrew Holden "Environment and tourism" Routledge Taylor & Francis Group UK 2003
13. P.K. Rao "International environmental" Blackwell Publishers Inc USA 2002
14. Peter B. "Kaufman creating a sustainable future" SCI Tech Publishing LIC, USA 2002
15. [http://web.ccsu.edu/faculty/kyem/GEOG433/International\\_Problems/INTERNATIONAL\\_ENVIRONMENTAL\\_PROBLEMS.htm](http://web.ccsu.edu/faculty/kyem/GEOG433/International_Problems/INTERNATIONAL_ENVIRONMENTAL_PROBLEMS.htm)
16. <http://www.yourarticlelibrary.com/environment/10-major-environmental-challenges-faced-by-india/9862>
17. [http://archive.mu.ac.in/myweb\\_test/M.A.Part%20-%20II%20-%20Paper%20VII.pdf](http://archive.mu.ac.in/myweb_test/M.A.Part%20-%20II%20-%20Paper%20VII.pdf)
18. <https://www.edf.org/climate/methane-other-important-greenhouse-gas>
19. <http://www.environment.gov.au/marine/publications/factsheet-dumping-wastes-se>

NEW

## II MA ECONOMICS

TOTAL CHANGE 6%

(For those who joined in 2019 onwards)

| PROGRAMME CODE | COURSE CODE  | COURSE TITLE            | HRS/WEEK | CREDITS |
|----------------|--------------|-------------------------|----------|---------|
| PAEC           | 19PG4E1<br>6 | ENVIRONMENTAL ECONOMICS | 6        | 5       |

### COURSE DESCRIPTION

Awareness on environmental problems and issues in India and rest of the world

### COURSE OBJECTIVE/S

7. To make students aware of environmental problems facing our countries
8. To study how economic activities affect the environment.
9. To understand some important and core issues of environment.
10. To improve the knowledge on scarce energy usages
11. To enlighten them on environmental protection efforts
12. To develop understanding of the key concepts of environmental economics and their relevance in the business settings
7. To equip students to apply tools of environmental economics in resolving business.

### UNIT I: BASIC CONCEPTS AND THEORIES

[15 HRS]

Eco-System - Pollution: Land, water, Air, Noise - Methods of Pollution Control Private Market - Market Failure -**Externalities(Self Study)** — Environment as a Public Good – Costs – Benefit analysis of Environment -Coase Theorem

### UNIT II : ENERGY AND RESOURCES

[15 HRS]

Renewable & Non-renewable Sources of Energy: Thermal, Nuclear, Hydel Power, Solar, Wind & Nuclear Energy - water resource – **ground water scarcity(Self Study)**

### **UNIT III: INDIAN ENVIRONMENTAL CHALLENGES [15 HRS]**

Interlinking of rivers- Cavery water issue – Farmers challenges - SethuSamuthram Project- Koodankulam Project – Nutrino-KathiramamangalamMetane issue - Chennai - Salem Greenfield Highway Project-Enayam Port –Sterlite Issue- Kulasai Rocket Launching Issue - **Bhopal Gas Tragedy (Self Study)**

### **UNIT IV: INTERNATIONAL ENVIRONMENTAL ISSUES:[15 HRS]**

Carbon Neutral, Chernobyl disaster- Japan nuclear disaster- Clamenseu ship issue--tsunami, Rio – summit deliberations.- Nuclear wars –International waste dumping in sea and space – COVID19 and the environment- **positive environmental effects-negative environmental effects-potential strategies of environmental sustainability-Environmental ranking of countries (Self Study)**

### **UNIT V: ENVIRONMENTAL MANAGEMENT [15 HRS]**

Economic Instruments – Fiscal Measures, Effluent Charges, Subsidies, Financial Incentives. Non-economic Instruments – Environmental Education, Peoples Participation, **Voluntary Organizations(Self Study)** – Environmental Regulations and Laws– Disaster Management

### **Unit VI DYNAMISM**

**Practical Evaluation Components using case study, Survey Reports and presentation (PPT or oral):**

Seminar and presentation on case study of core environmental issues  
Doing individual projects on current environmental issues

### **REFERENCE BOOKS**

19. Baumol .J. William and Oates .E.Wallace, “The Theory of Environmental Policy Externalities, Public Outlay on the Quality of Life”, Prentice Hall Inc.,1987.

20. Burrows P., "The Economic Theory of Pollution Control", Marton Robertson Publication, 1988.
21. DhulasiBirinda, " Environomics", Allied Publication, Ahamedabad, 2001.
22. Eugene T., "Environmental Economics", Vrinda Publication New Delhi, 2004.
23. Karpagam M., "Environmental Economics", Sterling Publishers Private Ltd.,
24. Mahajan V.S., "Environment Planning, Machinery and Management", Deep & Deep Publns
25. MaheswarDayal, "Renewable Energy, Environment and Development", Konark Publishers, New Delhi, 1989.
26. Kjell Arne Brekke "Economics growth and the environment" Edwarel Edgar Publishing Limited UK 1997
27. Antonio S. Camara "Environmental systems a multidimensional approach"US by Oxford University Press Inc. NewYork 2002
28. Alan Cottrell "Environmental economics"Edward Arnold Publisher Ltd. London 1978
29. Antonica Cornwell & John Creedy "Environmental taxes and economic welfare"Edward Elgar Publishing Ltd Uk& USA ,1997
30. Andrew Holden "Environment and tourism" Routledge Taylor & Francis Group Uk 2003
31. P.K. Rao "International environmental" Blackwell Publishers Inc USA 2002
32. Peter B. "Kaufman creating a sustainable future" SCI Tech Publishing LIC, USA 2002
33. [http://web.ccsu.edu/faculty/kyem/GEOG433/International\\_Problems/INTERNATIONAL\\_ENVIRONMENTAL\\_PROBLEMS.htm](http://web.ccsu.edu/faculty/kyem/GEOG433/International_Problems/INTERNATIONAL_ENVIRONMENTAL_PROBLEMS.htm)
34. [http://www.yourarticlelibrary.com/environment/10-I ECONOMICS-environmental-challenges-faced-by-india/9862](http://www.yourarticlelibrary.com/environment/10-I-ECONOMICS-environmental-challenges-faced-by-india/9862) MA
35. [http://archive.mu.ac.in/myweb\\_test/M.A.Part20-20II20-20Paper20VII.pdf](http://archive.mu.ac.in/myweb_test/M.A.Part20-20II20-20Paper20VII.pdf)
36. <https://www.edf.org/climate/methane-other-important-greenhouse-gas>

19.

<http://www.environment.gov.au/marine/publications/factsheet-dumping-wastes-se>

### COURSE CONTENTS & LECTURE SCHEDULE

| Module No.                                       | Topic  | No. of Lectures | Teaching Pedagogy | Teaching Aids |
|--|--|-----------------|-------------------|---------------|
| <b>UNIT I: BASIC CONCEPTS AND THEORIES</b>       |  |                 |                   |               |
| 1.1  | Eco-System   | 2               | PPT and lecture   | LCD           |
| 1.2  | Pollution, Land, water, Air, noise- Methods of Pollution Control | 4               | You tube videos   | Black board   |
| 1.3  | Market Failure Externalities and Environment as a public good    | 4               | lecture           | Class room    |
| 1.4  | Environment as a Public Good and Coase Theorem                   | 2               | PPT and lecture   | LCD           |
| 1.5  | Private Market -- Costs – Benefit analysis of Environment        | 3               | PPT and lecture   | LCD           |
| <b>UNIT II : ENERGY AND RESOURCES</b>            |  |                 |                   |               |
| 2.1  | Renewable & Non-renewable Sources of Energy                      | 4               | You tube viedo    | black Board   |
| 2.2  | Thermal, Nuclear, Hydel Power                                    | 3               | You tube viedo    | black Board   |
| 2.3  | Solar, Wind & Nuclear Energy -                                   | 4               | You tube viedo    | Black Board   |
| 2.4  | water resource – ground water scarcity                           | 4               | You tube viedo    | Smart Board   |
| <b>UNIT III: INDIAN ENVIRONMENTAL CHALLENGES</b> |  |                 |                   |               |



|  |   |   |                        |             |
|--|---|---|------------------------|-------------|
| 3.1  | Interlinking of rivers- Cavery water issue                            | 2 | Lecture and discussion | Smart Board |
| 3.2  | Farmers challenges - SethuSamuthram Project                           | 3 | Lecture                | Smart Board |
| 3.3  | Koodankulam Project – Nutrino-KathiramamangalamMetane issue           | 3 | Lecture                | Black Board |
| 3.4  | Chennai-Salem Greenfield Highway Project                              | 2 | Lecture                | Smart Board |
| 3.5  | Enayam Port, Sterlite Issue- KulasaiRocket Launching Issue            | 3 | Lecture                | Smart Board |
| 3.6  | Bhopal Gas Tragedy  | 2 | Lecture                | Black Board |
| <b>UNIT IV: INTERNATIONAL ENVIRONMENTAL ISSUES</b> |   |   |                        |             |
| 4.1  | Carbon Neutral, Chernobyl disaster- .-                                | 3 | Lecture &Viedo         | Smart Board |
| 4.2  | Japan nuclear disaster  | 3 | Lecture &Viedo         | Smart Board |
| 4.3  | Clamenseu ship issue—tsunami, Rio – summit deliberations              | 3 | Lecture &Viedo         | Black Board |
| 4.4  | Nuclear wars –International waste dumping in sea and space –          | 3 | Lecture &Viedo         | Smart Board |
| 4.5  | Environmental ranking of countries                                    | 3 | Lecture &Viedo         | Smart Board |
| <b>UNIT V: ENVIRONMENTAL MANAGEMENT</b>            |   |   |                        |             |
| 5.1  | Economic Instruments – Fiscal Measures, Effluent Charges, Subsidies,– | 4 | Lecture                | Black board |

|     |   |   |         |             |
|-----|---|---|---------|-------------|
| 5.2 | Financial Incentives. Non-economic Instruments – Environmental Education,           | 5 | Lecture | Black board |
| 5.3 | Peoples Participation, Voluntary Organizations – Environmental Regulations and Laws | 3 | Lecture | Black board |
| 5.4 | Disaster Management   | 3 | Lecture | Black board |

| Levels         | C1                    | C2                            | C3                  | C4                          | Total Scholastic Marks | Non Scholastic Marks<br>C5 | CIA Total | Percentage of Assessment |
|----------------|-----------------------|-------------------------------|---------------------|-----------------------------|------------------------|----------------------------|-----------|--------------------------|
|                | Seminar<br><br>5 Mks. | Better of W1, W2<br><br>5Mks. | M1+M2<br><br>10 Mks | MID-SEMI TEST<br><br>15 Mks | 35 Mks.                | 5 Mks.                     | 40Mks.    |                          |
| K2             | 5                     | -                             | -                   | 2 ½                         | -                      |                            | -         | -                        |
| K3             | -                     | 5                             | 4                   | 2 ½                         | 5                      |                            | 5         | 12.5                     |
| K4             | -                     | -                             | 3                   | 5                           | 12                     |                            | 12        | 30                       |
| K5             | -                     | -                             | 3                   | 5                           | 9                      |                            | 9         | 22.5                     |
| Non Scholastic | -                     | -                             | -                   | -                           | 9                      |                            | 9         | 22.5                     |

|              |          |          |           |           |           |          |           |            |
|--------------|----------|----------|-----------|-----------|-----------|----------|-----------|------------|
| <b>Total</b> | <b>5</b> | <b>5</b> | <b>10</b> | <b>15</b> | <b>35</b> | <b>5</b> | <b>40</b> | <b>100</b> |
|--------------|----------|----------|-----------|-----------|-----------|----------|-----------|------------|

|                |           |
|----------------|-----------|
| <b>CIA</b>     |           |
| Scholastic     | <b>35</b> |
| Non Scholastic | <b>5</b>  |
|                | <b>40</b> |

## EVALUATION PATTERN

| <b>SCHOLASTIC</b> |           |           |           |           | <b>NON - SCHOLASTIC</b> | <b>MARKS</b> |           |              |
|-------------------|-----------|-----------|-----------|-----------|-------------------------|--------------|-----------|--------------|
| <b>C1</b>         | <b>C2</b> | <b>C3</b> | <b>C4</b> | <b>C5</b> | <b>C6</b>               | <b>CIA</b>   | <b>ES</b> | <b>Total</b> |
| <b>10</b>         | <b>10</b> | <b>5</b>  | <b>5</b>  | <b>5</b>  | <b>5</b>                | <b>40</b>    | <b>60</b> | <b>100</b>   |

### ● PG CIA Components

|           |                      | <b>Nos</b> |          |
|-----------|----------------------|------------|----------|
| <b>C1</b> | - Test (CIA 1)       | 1          | - 10 Mks |
| <b>C2</b> | - Test (CIA 2)       | 1          | - 10 Mks |
| <b>C3</b> | - Assignment         | 2 *        | - 5 Mks  |
| <b>C4</b> | - Open Book Test/PPT | 2 *        | - 5 Mks  |
| <b>C5</b> | - Seminar            | 1          | - 5 Mks  |
| <b>C6</b> | - Attendance         |            | - 5 Mks  |

***\*The best out of two will be taken into account***

## COURSE OUTCOMES

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

| NO.  | COURSE OUTCOMES  | KNOWLEDGE LEVEL<br>(ACCORDING TO REVISED BLOOM'S TAXONOMY) | PSOs ADDRESSED |
|------|--|--|----------------|
| CO 1 | Know core concepts and methods from ecological and physical sciences and their application in environmental problem-solving.                                   | K2   | PSO1& PSO2     |
| CO 2 | Appreciate key concepts from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions. | K2, K3   | PSO3           |
| CO 3 | Gain knowledge on ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.                     | K2, K4   | PSO5           |
| CO 4 | Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.                        | K2, K3 & K4  | PSO4           |

|            |  |        |      |
|------------|--|--------|------|
| <b>CO5</b> | Get skills on cultural, and the context of issues and the links between human and environment. | K2, K5 | PSO4 |
|------------|--|--------|------|

### Mapping COs Consistency with PSOs

| CO/<br>PSO | PSO1 | PSO2 | PSO3 | PSO4 | PSO5 |
|------------|------|------|------|------|------|
| <b>CO1</b> | 3    | 3    | 3    | 3    | 3    |
| <b>CO2</b> | 3    | 3    | 3    | 3    | 3    |
| <b>CO3</b> | 3    | 3    | 3    | 3    | 3    |
| <b>CO4</b> | 3    | 3    | 3    | 3    | 3    |

**Note:** ♦ Strongly Correlated – 3      ♦ Moderately Correlated – 2

♦ Weakly Correlated -1

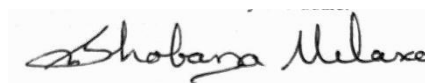
### Mapping COs Consistency with POs

| CO/ PO     | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 |
|------------|-----|-----|-----|-----|-----|-----|-----|
| <b>CO1</b> | 3   | 3   | 3   | 3   | 3   | 3   | 3   |
| <b>CO2</b> | 3   | 3   | 3   | 2   | 3   | 3   | 2   |
| <b>CO3</b> | 3   | 3   | 2   | 3   | 3   | 2   | 3   |
| <b>CO4</b> | 3   | 2   | 3   | 3   | 3   | 1   | 3   |
| <b>CO5</b> | 3   | 3   | 3   | 1   | 3   | 3   | 3   |

**Note:** ♦ Strongly Correlated – 3      ♦ Moderately Correlated – 2

♦ Weakly Correlated -1

**COURSE DESIGNER:**



**Staff Name**

**Forwarded By**

**Dr.G.UmaDr.ShobanaNelasco**

**HOD NAME AND SIGN**