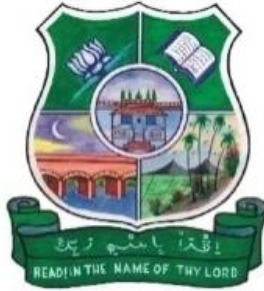# HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University, Madurai.)

Re-Accredited with A++ Grade by NAAC (3rd Cycle)

Uthamapalayam - 625 533.

DEPARTMENT OF ECONOMICS

MASTER OF ARTS – ECONOMICS

SYLLABUS

Choice Based Credit System – CBCS

(As per TANSCHE/MKU Guidelines)

with

Outcome Based Education (OBE)

(Academic Year 2023 -2024 onwards)

HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University, Madurai.)
Re-Accredited with A++ Grade by NAAC (3rd Cycle)
Uthamapalayam - 625 533.

College Vision and Mission

Vision

Our vision is to provide the best type of higher education to all, especially to students hailing from minority Muslim community, rural agricultural families and other deprived, under privileged sections of the society, inculcating the sense of social responsibility in them. Our college is committed to produce talented, duty-bound citizens to take up the challenges of the changing times.

Mission

Our mission is to impart and inculcate social values, spirit of service and religious tolerance as envisioned by our beloved Founder President Hajee Karutha Rowther.

The Vision beckons .... the Mission continues forever.

HAJEE KARUTHA ROWTHER HOWDIA COLLEGE

(An Autonomous Institution Affiliated to Madurai Kamaraj University, Madurai.)
Re-Accredited with A++ Grade by NAAC (3rd Cycle)
Uthamapalayam - 625 533.

DEPARTMENT VISION AND MISSION

VISION

- Education in Economics for the inclusive and sustainable development of the nation by promoting employable skills.

MISSION

- To provide quality instruction to students to prepare them for successful careers.
- To equip the students to contribute positively to the economic and social well-being of the society.
- *To stimulate the academic environment* to promote excellence in higher education

Programme Outcomes (POs)

PO1: Problem Solving Skill

Apply knowledge of Management theories and Human Resource practices to solve business problems through research in Global context.

PO2: Decision Making Skill

Foster analytical and critical thinking abilities for data-based decision-making.

PO3: Ethical Value

Ability to incorporate quality, ethical and legal value-based perspectives to all organizational activities.

PO4: Communication Skill

Ability to develop communication, managerial and interpersonal skills.

PO5: Individual and Team Leadership Skill

Capability to lead themselves and the team to achieve organizational goals.

PO6: Employability Skill

Inculcate contemporary business practices to enhance employability skills in the competitive environment.

PO7: Entrepreneurial Skill

Equip with skills and competencies to become an entrepreneur.

PO8: Contribution to Society

Succeed in career endeavors and contribute significantly to society.

PO 9 Multicultural competence

Possess knowledge of the values and beliefs of multiple cultures and a global perspective.

PO 10: Moral and ethical awareness/reasoning

Ability to embrace moral/ethical values in conducting one's life.

Programme Specific Outcomes (PSOs)

PSO1 – Placement

To prepare the students who will demonstrate respectful engagement with others' ideas, behaviors, beliefs and apply diverse frames of reference to decisions and actions.

PSO 2 - Entrepreneur

To create effective entrepreneurs by enhancing their critical thinking, problem solving, decision making and leadership skill that will facilitate startups and high potential organizations.

PSO3 – Research and Development

Design and implement HR systems and practices grounded in research that comply with employment laws, leading the organization towards growth and development.

PSO4 – Contribution to Business World

To produce employable, ethical and innovative professionals to sustain in the dynamic business world.

PSO 5 – Contribution to the Society

To contribute to the development of the society by collaborating with stakeholders for mutual

PROGRAMME OUTCOMES (PO) - PROGRAMME SPECIFIC OUTCOMES (PSO) MAPPING

PROGRAMME SPECIFIC OUTCOMES (PSO)					
	PO1	**PO2**	**PO3**	**PO4**	**PO5**
PSO1	3	3	3	3	3
PSO2	3	3	3	3	3
PSO3	3	3	3	3	3
PSO4	3	3	3	3	3
PSO5	3	3	3	3	3

Level of Correlation between PO's and PSO's
(Suggested by UGC as per Six Sigma Tool – Cause and Effect Matrix)

Assign the value
1 – Low
2 – Medium
3 – High
0 – No Correlation

Programme Scheme

Eligibility

B.A,/ B.B.A,/ B.Com, / and B.Sc., degree holders with Economics, Mathematics and Statistics as major or ancillary subjects and candidates who studied Mathematics / Business Mathematics at +2 level are eligible for seeking admission into M.A Economics.

For Programme Completion

A Candidate shall complete:

- Part III - Core papers in semesters I, II, III and IV respectively
- Part III - Elective papers in semesters I, II, III and IV respectively
- Part IV - Non- Major Elective papers in semester II and III respectively
- Part IV - Skill Enhancement Course papers in semester II, III and IV respectively
- Part V – Extension activity in semester IV respectively

Scheme of Examinations under Choice Based Credit System

Term End Examinations (TEE)	- 75 Marks
Continuous Internal Assessment Examinations (CIAE)	- 25 Marks
Total	- 100 Marks

Pattern of Continuous Internal Assessment Examinations (CIAE)

Average of Two Internal Tests (each 20 marks)	- 20 Marks
Seminar / Quiz / Assignment	- 05 Marks
Total	- 25 Marks

Pattern of Term End Examinations
(Max. Marks: 75 / Time: 3 Hours)
External Examinations Question Paper Pattern

Section – A (10 X 1 = 10 Marks)
Answer ALL the questions.

- Question numbers 1 to 10
- Two questions from each unit
- Multiple choice questions and each question carries Four choices

Section – B (5 X 7 = 35 Marks)
Answer ALL the questions, choosing either a or b.

- Question numbers 11 to 15
- one question from each unit (either…. or…. type)
- Descriptive Type

Section – C (3 X 10 = 30 Marks)

- Answer ALL the questions, choosing either a or b.
- Question numbers 16 to 18
- Descriptive Type

Passing Marks

A Candidate passes the M.A., Economics degree by scoring a minimum of 50% of Marks (internal + external) in each course of the Programme. No minimum marks for internal assessment.

- Minimum 34 Marks (45%) for External Examination in Theory Courses.

MA Economics

FIRST YEAR -FIRST SEMESTER

Course Components	Course Code	Name of the Course	Ins. Hrs	Credits	CIAE	External	Total
Core Paper-I	23PECCC11	Advanced Micro Economics	7	5	25	75	100
Core Paper-II	23PECCC12	Indian Economic Development and Policy	7	5	25	75	100
Core Paper-III	23PECCC13	Statistics for Economists	6	4	25	75	100
Elective-I	23PECDE11	Rural Economics	5	3	25	75	100
Elective-II	23PECGE11	Regional Economics	5	3	25	75	100
Total			30	20			

FIRST YEAR -SECOND SEMESTER

Course Components	Course Code	Name of the Course	Ins Hrs.	Credits	CIAE	External	Total
Core Paper-IV	23PECCC21	Monetary Economics	6	5	25	75	100
Core Paper-V	23PECCC22	Labour Economics	6	5	25	75	100
Core Paper-VI	23PECCC23	Mathematical Economics	6	4	25	75	100
Elective-III	23PECDE21	Gender Economics	4	3	25	75	100
Elective-IV	23PECGE21	Resource Economics	4	3	25	75	100
Skill Enhancement Course / NME	23PECSE21	Social Ethics and Responsibilities – Women Empowerment, Disability, Social Inclusion.	4	2	40	60	100
Total			30	22			

Course Code	Course Title	Category	Credits	Inst. Hours	Marks CIAE	Marks External	Marks Total
23PECCC11	**Advanced Micro Economics**	**Core**	5	7	25	75	100

	Learning Objectives
L1	To make the students to understand consumer behavior with the theories of Demand and Production.
L2	To elaborate various market structure and the theories of distribution.

UNIT	Contents	No. of Hours
I	**Consumer Choice** Cardinal and ordinal utility - Indifference curve approach – Slutsky's Decomposition of price effect into substitution effect and income effect – Consumer surplus - Marshall's and Hicksian measures – Compensatory Demand Curve- Revealed Preference Theorem- and derivation of Marginal Utility schedule for money income.	21
II	**Economics of Information** Informational asymmetry –- Choice under Uncertainty - N-M Index – Inter-temporal choice -Market for lemons- Adverse selection – Insurance market and adverse selection – Solution to principal agent problem- Hidden action (Moral Hazard) - Signaling and Screening.	21
III	**Market Structure Models** a. Perfect competition – Price and output determination – Optimum firm- b. Monopoly – Short run and long run equilibrium - Price discrimination monopoly control, and regulation – Contestable Market- c. Monopolistic competition–Chamberlin Model- selling costs - Excess capacity d. Oligopoly – Duopoly price game-dominant strategy-Nash Equilibrium Non-collusive Models - Cournot- Bertrand – Chamberlin – Edgeworth –Sweezy – Stackelberg- Oligopoly - Collusive Models - Cartels and mergers -Price leadership - Base point price system e. Monopsony – Price and output determination – Workable competition.	21
IV	**Alternative Theories of Firm** Full Cost Pricing Rule- Limits pricing theory- Bains Theory- Sylos-Labini Model-Modigliani's Models- Input-output model -Linear programming applications in decision making- Peak Load Pricing – Administered Pricing- Purchasing Power Parity Price.	21
V	**Distribution Theories**	21

	Neo-classical approach – Marginal productivity theory; Product exhaustion theorem; - Modern theory of distribution – Factor Pricing in imperfect product and factor markets- Determination of Wages – Labour supply and wage determination – Role of trade unions and collective bargaining- Theories of Interest- Theories of Profit.	

	Course Outcomes	Knowledge Level
CO	**On completion of this course, students will**	
1	To illustrate and analyse the theories of consumer behavior	K1,K2,K3,K4,K5
2	To illustrate and identify the choice under uncertainty.	K1,K2,K3,K4,K5
3	To compare how price and output is determined in different market situations and evaluate the market structures	K1,K2,K3,K4,K5,K6
4	To identify and examine the alternative theories of firms.	K1,K2,K3,K4,K5,K6
5	To define, explain, and compare the theory of distribution.	K1,K2,K3,K4,K5,K6

Textbooks

1	Jhingan M.L, (2004 Reprint) Advanced Economic Theory (Verandah Publications (P) Ltd., New Delhi.
2	Agarwal, H.S. Micro Economic Theory, (Ane's Books Pvt. Ltd.,) New Delhi.

Reference Books

1.	Hal R. Varian (2004), *Intermediate Micro Economics* (East-West Press: New Delhi).
2.	Ruffin Roy. J (1992), *Intermediate Micro Economics,* Harper & Collins Publishers.
3.	Koutsyiannis A. (1978), *Modern Micro Economics*, (Macmillan- London).

Web Resources

1.	http://open.oregonstate.education/intermediatemicroeconomics/chapter/module-
2.	http://saylordotorg.github.io/text_introduction-to-economic analysis/s16-monopoly.html
3.	http://saylordotorg.github.io/text_introduction-to-economic analysis/s17-games-and -strategic-behaviour.html

Mapping with Programme Outcomes:

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5
CO 1	3	3	3	3	3
CO 2	3	3	3	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	3	3
CO 5	3	3	3	3	3

Strong-3   Medium-2   Low-1

Level of Correlation between PSO's and CO's

CO /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

Strong-3   Medium-2   Low-1

Course Code	Course Title	Category	Credits	Inst. Hours	Marks		
					CIAE	External	Total
23PECCC12	Indian Economic Development And Policy	Core	5	7	25	75	100

Learning Objectives	
L1	To provide a macroeconomic understanding of the Indian Economy.
L2	The students become aware of various challenges of the Indian Economy.

UNIT	Contents	No. of Hours
I	**Introduction** Growth and Structural Change Indian economy at Independence- The policy framework: statist policy, transition to market-oriented policy, role of erstwhile Planning Commission and NITI Aayog- Two phases of growth (1950-1980 and 1980 onwards), factors underlying turnaround- Structural change in Indian economy.	21
II	**Agricultural and Industrial Sector** Agricultural and Industrial Sectors - Agricultural Sector Performance of agricultural sector, factors determining agricultural growth - Factors underlying food inflation- Agricultural price policy and food security Industrial Growth - Industrial growth before and after reforms - Dualism in Indian manufacturing- Issues in performance of public sector enterprises and privatization.	21
III	**Fiscal Developments** Fiscal Developments, Finance and External Sector Expenditure trends- GST: rationale and impact- Evolution of the financial sector in post-liberalization period- External sector performance: emergence of India as major exporter in services, performance of manufacturing sector.	21
IV	**Poverty and Inequality** Poverty and Inequality - Measuring poverty in India: Selection of poverty lines- Poverty in pre and post liberalization periods- Impact of growth on poverty- PDS vs. cash transfers, feasibility of universal basic income in India - Inequality in India in pre and post liberalization periods.	21
V	**Social Sector** Social Issues Gender gap in India and trends in female labour force participation rates, factors determining female labour force participation- Employment: changing nature of employment in India, "jobless growth"- Labour in informal sector- India's graphic transition.	21

Course Outcomes		Programme Outcomes
CO	**On completion of this course, students will**	
1	Understand the Structural change in Indian economy	K1, K2, K3, K4

2	Assess the Performance of agricultural and Industrial sector	K1, K2, K3, K4
3	Ability to learn the trends in the economy	K1, K2, K3, K4, K5
4	Understand the Impact of Poverty	K1, K2, K3, K4
5	Identify Social Issues like Unemployment, Gender disparities	K1, K2, K3, K4

Textbooks

1	Sundaram K P M.,(2002), *Indian Economy* , 42 revised edition., S.Chand Publications
2	Misra,S, &Puri, V.,(2020.), *Indian Economy,* Revised Edition., S.Chand Publications

Reference Books

1.	Kaushik Basu (Ed.) (2012), *Oxford Companion to Indian Economy*, 3rd Edition, OUP, New Delhi.
2.	Uma Kapila (Ed.) (2018), *Indian Economy since Independence*, Academic Foundation, New Delhi, 29th Edition.
3.	Ashima Goyal (Ed.) *The Oxford Handbook of the Indian Economy in the 21st Century: Understanding the Inherent Dynamism*, Oxford University Press.

Web Resources

1.	https://www.adb.org/countries/india/economy
2.	https://www.oecd.org/economy/india-economic-snapshot/
3.	https://www.indiabudget.gov.in/economicsurvey/

Mapping with Programme Outcomes:

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5
CO 1	3	3	3	3	3
CO 2	3	3	3	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	2	3
CO 5	3	3	3	2	3

Strong-3   Medium-2   Low-1

Level of Correlation between PSO's and CO's

CO /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	2	3
CO5	3	3	3	2	3

Strong-3   Medium-2   Low-1

Course Code	Course Title	Category	Credits	Inst. Hours	Marks		
					CIAE	External	Total
23PECCC13	**Statistics for Economists**	**Core**	4	6	25	75	100

Learning Objectives	
L1	To provide a strong foundation in statistical concepts and develop skills in data handling and research.
L2	The course facilitates in inferring the intensity of relationship between multiple variables and building appropriate statistical models. The models thus formulated can be tested for their significance and can be used for forecasting

UNIT	Contents	No. of Hours
I	**Probability** Probability - Addition and Multiplication Theorems - Conditional Probability - Discrete and Continuous - Random Variables - Mathematical Expectations – Bayes Theorem - Theoretical Distributions - Binomial, Poisson and Normal.	18
II	**Sampling and Hypothesis Testing** Sampling Theory - Types of Sampling - Sampling Distributions - Parameter and Statistic - Testing of Hypothesis - Level of Significance - Type I and Type II Errors - Standard Error - Properties of Estimator.	18
III	**Test of Significance Large and Small Sample** Difference between Large and Small Samples - Test of Significance for Large Samples - Test for Two Means and Standard Deviations - Proportion and Confidence Interval - Small Sample Test – t-test - Paired t- test - Chi-square Test- Test of Goodness of Fit.	18
IV	**Analysis of Variance** F test: Assumptions in F test - Analysis of Variance: Assumptions – One-Way and Two-Way Classifications.	18
V	**Statistical Decision Theory** Definitions – Concepts – Maximini - Minimax - Bayes Criterion - Expected Monetary Value - Decision Tree Analysis: Symbols - Steps - Advantages and Limitations.	18

Course Outcomes		Knowledge Level
CO	**On completion of this course, students will**	
1	Summarize the basic Probability rules and understand theoretical distributions.	K1,K2,K3,K4,K5
2	Acquire knowledge on the various sampling methods and testing of Hypotheses	K1,K2,K3,K4,K5
3	Use t test and chi square for analysis	K1,K2,K3,K4,K5,K6
4	Understand the importance of one and two-way ANOVA	K1,K2,K3,K4,K5,K6
5	Know the various Decision making tools available	K1,K2,K3,K4,K5,K6
Textbooks		
1	Gupta S.P., *Statistical Methods*, Sultan Chand and Sons, New Delhi, 2017.	

2	Anderson, Sweeney and Williams, "*Statistics for Business and Economics*", engage, 2014.

<table>
<tr><td colspan="2" align="center">**Reference Books**</td></tr>
<tr><td>1.</td><td>Aggarwal. Y.P (2002), "*Statistics Methods – Concepts Application and Computation*", Sterling Publishers Private Ltd., New Delhi.</td></tr>
<tr><td>2.</td><td>Vittal P.R., *Mathematical Statistics*, Margham Publications</td></tr>
<tr><td>3.</td><td>Pillai R.S.N. and Bagavathi V (2010), *Statistics*, Sultan & Chand Sons, New Delhi.</td></tr>
<tr><td colspan="2" align="center">**Web Resources**</td></tr>
<tr><td>1.</td><td>https://www.statista.com.</td></tr>
<tr><td>2.</td><td>https://techjury.net</td></tr>
<tr><td>3.</td><td>https://dss.princeton.edu/online_help/analysis/interpreting_regression.htm</td></tr>
</table>

Mapping with Programme Outcomes:

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5
CO 1	3	2	3	2	2
CO 2	3	2	3	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	3	3
CO 5	2	3	3	2	3

Strong-3   Medium-2   Low-1

Level of Correlation between PSO's and CO's

CO /PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	2	3	2	2
CO2	3	2	3	3	3
CO3	3	3	3	3	3
CO4	3	3	3	3	3
CO5	2	3	3	2	3

Strong-3   Medium-2   Low-1

Course Code	Course Title	Category	Credits	Inst. Hours	Marks		
					CIAE	External	Total
23PECDE11	**Rural Economics**	**Elective**	3	5	25	75	100

Learning Objectives	
L1	To understand rural economic development in India
L2	To know about the Rural Empowerment Programs initiated by Government of India

UNIT	Contents	No. of Hours
I	**Introduction to Rural Economics** Nature and Scope of Rural Economics - Inter-disciplinary approach of Rural Economics –Components - Structure and Characteristics - Pre and Post-independence - Rural Development: Meaning, Nature and Scope - Factors Affecting Rural Growth	15
II	**Rural Resources and Rural development theories** Rural Resources: Nature, Types and Magnitude - Rural Resources Management and Development - Application of Technology in Rural Development – Problems and prospects - W.W. Rostow's - Lewis-Fei-Ranis and Gandhian Approach to Rural Development.	15
III	**Rural Demography and Occupational Structure** Demography: Population Size, Sex and Age Composition - Density of Population- Population Problems and Challenges – Family Welfare Measures in Rural India - Occupational Structure: Nature of Rural Occupations - Occupational Distribution in Rural India – The Concept of Work Participation Rates.	15
IV	**Rural Poverty and Unemployment** Rural Poverty: Meaning, Estimates, Causes and Consequences – Unemployment: Meaning, Types and Magnitude of Rural Unemployment - Causes and Consequences - National Programmes for Rural Development - Community Development Programmes and Employment Guarantee Schemes.	15
V	**Rural Empowerment Programmes** Bharat Nirman, Provisions of Urban Amenities in Rural Area (PU RA), Mahatma Gandhi National Rural Employment Guarantee Act - Agencies for Rural Development: Government, Semi-Government Organisations, Co-Operative Institutions, Non-Government Organisations and Voluntary Agencies for Rural Development.	15

CO	Course Outcomes	Knowledge Level
	On completion of this course, students will	
1	To label and interpret the nature and scope of rural economics.	K1,K2,K3,K4,K5

2	To define and demonstrate the theories of rural development and rural resources.	K1,K2,K3,K4,K5
3	To recall, outline and determine rural demography and occupation structure.	K1,K2,K3,K4,K5,K6
4	To organize, examine and evaluate rural poverty and unemployment.	K1,K2,K3,K4,K5,K6
5	To summarize, develop and explain the rural empowerment programs.	K1,K2,K3,K4,K5,K6

Textbooks

1	Vasant Desai: *Rural Development in India*, Himalaya Publishing House, Mumbai, 2012.
2	Dutt and Sundaram- *Indian Economy*, S.Chand Publications, New Delhi, 2013-07-02.

Reference Books

1.	Singh, K., & Shishodia, A. (2016). *Rural development: Principles, policies, and management*. SAGE Publishing India.
2.	Hoff, K., Braverman, A., &Stiglitz, J. E. (1993). *The economics of rural organization*. Oxford: Oxford University Press.
3.	Hill, B., & Ray, D. (1987). *Economics for agriculture: food, farming and the rural economy*. Basingstoke, UK: Macmillan Education.

Web Resources

1.	https://www.kobo.com/us/en/ebooks/public-finance
2.	https://www.amazon.in/PUBLIC-FINANCE-AMBAR-GHOSH-ebook/dp/B07W5F2P1Q
3.	https://www.niti.gov.in/sites/default/files/2021-08/11_Rural_Economy_Discussion_Paper_0.pdf

Mapping with Programme Outcomes:

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5
CO 1	3	3	3	3	3
CO 2	3	3	3	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	3	3
CO 5	3	2	2	3	3

Strong-3   Medium-2   Low-1

Level of Correlation between PSO's and CO's

CO /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	2	2	3	3

Strong-3   Medium-2   Low-1

Course Code	Course Title	Category	Credits	Inst. Hours	Marks		
					CIAE	External	Total
23PECGE11	**Regional Economics**	Elective	3	5	25	75	100

Learning Objectives	
L1	To equip the analytical skills required to analyse the regional economic issues
L2	To understand Regional economic growth in India

UNIT	Contents	No. of Hours
I	**Introduction to Regional Economics** Nature and scope of regional economics – Regional economics and regional science – Regional and Urban Economics: Need for a separate study of regional economics – Concept and types of regions: Administrative, Planning, Agro-climatic, Economic and Functional regions.	15
II	**Approaches to regional growth** Approaches to regional growth: Models of regional, inter-regional and multi-regional models; Export base models – Location Theory - Gravity models – Shift-share analysis	15
III	**Theories of regional economic growth** Neoclassical models – Dualistic models: Social dualism – Labour surplus model of Arthur Lewis- Migration and development: Harris-Todaro – Core-Periphery models: Myrdal's Cumulative Casuation Hypothesis – Regional Input-output models - New Economic Geography models: Paul Krugman's model of industrial location and development	15
IV	**Regional economic growth in India** Administrative regions in India: State, District, Taluk and Village; Urban and Rural regions - Concept, definition and measure of State Income (GSDP) – Rural and urban GDP – Differences in estimation of national income (GDP) and State Income (GSDP) - Measurement of interregional economic growth at State level	15
V	**Regional Aspects of Stabilization and Growth Policy** Post-war Regional Cyclical Behaviour and Policy Measures for Stabilization, Theories to Explain Regional Differences in Growth, Fiscal Programmes, Tax and Transfer Programmes, Fiscal Responses of Power Level Governments, Regional Orientation to Policy Programmes and Central Responsibility.	15

Course Outcomes	Knowledge Level
CO	**On completion of this course, students will**	

1	Understand the Nature and scope of regional economics and its need	K1,K2,K3,K4,K5
2	Discuss the Models of regional, inter-regional and multi-regional models	K1,K2,K3,K4,K5
3	Evaluate the various theories of regional economic growth	K1,K2,K3,K4,K5,K6
4	Describes the Measurement of interregional economic growth at State level	K1,K2,K3,K4,K5,K6
5	Apply Regional Aspects of Stabilization and Growth Policy	K1,K2,K3,K4,K5,K6

Textbooks

1	Capello Roberta. (2016). Regional Economics. Routledge (New York).
2	Temple, M. (1994). *Regional economics*. St. Martin's Press.

Reference Books

1.	Harry W Richardson (1973): Regional Growth Theory, Macmillan.
2.	Harry W. Richardson. (1970). Elements of Regional Economics. Penguin Books (New York).
3.	Harry W Richardson (1969): Regional Economics: Location theory, Urban structure and regional change, Weidenfeld & Nicolson (London)

Web Resources

1.	http://www.rri.wvu.edu/WebBook/Giarratani/contents.htm
2.	https://researchrepository.wvu.edu › cgi › viewcontent
3.	https://ddceutkal.ac.in › Syllabus › MA_Economics

Mapping with Programme Outcomes:

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5
CO 1	2	3	3	3	2
CO 2	3	2	2	3	2
CO 3	3	2	3	2	2
CO 4	3	3	3	2	3
CO 5	3	2	2	2	3

Strong-3   Medium-2   Low-1

Level of Correlation between PSO's and CO's

CO /PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	3	3	2
CO2	3	2	2	3	2
CO3	3	2	3	2	2
CO4	3	3	3	2	3
CO5	3	2	2	2	3

Strong-3   Medium-2   Low-1

Course Code	Course Title	Category	Credits	Inst. Hours	Marks		
					CIAE	External	Total
23PECCC21	**Monetary Economics**	**Core**	5	6	25	75	100

Learning Objectives	
L1	The course is devoted to the main issues in modern monetary economics.
L2	The factors behind money demand and supply are studied through the set of comprehensive monetary models.

UNIT	Contents	No. of Hours
I	**Classical Theories of Money** Demand for Money Quantity theories of money – Fisher and Cambridge- Keynesian monetary theory- James Tobin's portfolio analysis of money demand- Don Patinkin`s Integration– Real Balance Effect- Milton Friedman's reformulated quantity theory.	18
II	**Supply of Money** Supply of Money Types and determinants of money supply – money multiplier- Theories of interest rate – classical – Keynes – Hicks – Hansen.	18
III	**Money and Capital Market** Money and Capital Market Significance and functions of Money market and capital market- Role of financial intermediaries – Effects of financial intermediation- Non-banking financial institutions – Gurley and Shaw theory.	18
IV	**Banking and its functions** Banking Functions of Commercial banks - Credit creation – process and limitations Role of Commercial banks after nationalization – after reforms- Role of RBI – Regulation of money supply and credit- Narasimham Committee Reports–1991 and 1998- Raguram Rajan Committee Report -2007.	18
V	**Monetary Policies** Monetary Policy Objectives and Instruments of Monetary policy– Limitations of monetary policy- Monetarism and Keynesianism – Comparison - Supply side policies.	18

	Course Outcomes	Knowledge Level
CO	**On completion of this course, students will**	
1	To list out and outline the theories of money.	K1,K2,K3,K4,K5
2	To explain construct and distinguish various determinate of money supply and multiplier.	K1,K2,K3,K4,K5

3	To label, explain and evaluate the capital market.	K1,K2,K3,K4,K5,K6
4	To define, illustrate and importance of banking sector.	K1,K2,K3,K4,K5,K6
5	To interpret and make use of monetary policy.	K1,K2,K3,K4,K5,K6

Textbooks

1	Bain, Keith and Howells, Peter: Monetary Economics: Policy and its theoretical Basis, Palgrave Macmillian, 2nd Edition, 2009
2	Mishkin .S. Frederic-The Economics of Money ,Banking and Financial Markets, Pearson Publication, 11th Edition, 2015

Reference Books

1.	Jhingan, M.L. (2005), Monetary Economics [Konark Publication, New Delhi].
2.	Sundaram, K.P.M. (2003), Money, Banking and International Trade [Vikas, New Delhi].
3.	Vaish, M.C. (2004), Money, Banking and International Trade [New Age International, New Delhi].

Web Resources

1.	https://www.amazon.in/Handbook-Monetary-Economics-Benjamin-Friedman-ebook/dp/B00EXOTZ96
2.	https://link.springer.com/book/10.1057/9780230280854
3.	https://www.rbi.org.in/scripts/AnnualPublications.aspx?head=Handbook%20of%20Statistics%20on%20Indian%20Economy

Mapping with Programme Outcomes:

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5
CO 1	3	3	3	3	3
CO 2	3	3	3	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	3	3
CO 5	3	3	3	3	3

Strong-3   Medium-2   Low-1

Level of Correlation between PSO's and CO's

CO /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

Strong-3   Medium-2   Low-1

Course Code	Course Title	Category	Credits	Inst. Hours	Marks		
					CIAE	External	Total
23PECCC22	Labour Economics	Core	5	6	25	75	100

Learning Objectives	
L1	To enable and acquire the knowledge the relating to the significance of labour market
L2	To understand the man power in Economic Development

UNIT	Contents	No. of Hours
I	**Labour Market and Policies** Labour Market- Nature and Characteristics, Demand for Labour in relation to size and pattern of investment, Choice of technologies and labour policies Supply of Labour, Growth of Labour Force, Labour Market Policies, Mobility and Productivity	18
II	**Employment and Wage Determination** Employment and Development relationship- poverty and unemployment, Unemployment- Types, concepts and measurement, Employment Policy Wage Determination- Classical, Neo-classical and Bargaining theories; Concepts of minimum wage and efficiency wage; Non-wage component	18
III	**Trade Union Movement** Since Independence and Present Scenario of the Trade Union Movement– AITUC – INTUC – HMS – UTUC – Association of Indian Trade Unions with International Trade Unions –Problems of Trade Unions – Essentials for success of a Trade Union - The Trade Union Act, 1926- Recent policies relating to Trade union act	18
IV	**Industrial Relation** Need for Industrial Relation Machinery-Preventive and Curative methods-Collective Bargaining, Arbitration and Adjudications-industrial Democracy, the concept of Workers participation in management- Role of State in Industrial Relations.	18
V	**Social Security and Reforms** Social Security- Concepts and evolution, Social assistance and insurance, Review and Appraisal of State Policies, Special Problems- Child labour, discrimination, bonded labour-Labour market Reforms- Exit Policy, safety requirements, National Commission on Labour, Globalisation and labour markets, mobility of labour.	18

	Course Outcomes	Knowledge Level
CO	On completion of this course, students will	
1	Study the recent trends of labour and their productivity	K1,K2,K3,K4,K5
2	Assess the determination of employment and wages	K1,K2,K3,K4,K5

3	Understand the trade unions and their impact on labour market	K1,K2,K3,K4,K5,K6
4	Evaluate the Industrial relation	K1,K2,K3,K4,K5,K6
5	Analyze the current trends of social security measures	K1,K2,K3,K4,K5,K6

Textbooks

1	Pant C.(1978),Indian Labour Problems,(Allahabad,Chaitanya Publishing House).
2	Singh S.S., and Metha S.(1989),Labour Economics,(Ajanta Prakasham New Delhi).

Reference Books

1.	Tyagi P.B.(1995),Labour Economics and Social welfare,(Jaiprakash Nath & Co.Meerut),
2.	Baholiwal T.N.(1981), Economics of Labour and Industrial Relations,(Sahity Bhawan, Agra).
3.	Giri V.V.(1985),Labour Problems in Indian Industry (Asia Publishing House, Bombay).

Web Resources

1.	https://fac.ksu.edu.sa › sites › default › files › Moder..
2.	http://students.aiu.edu › resources › onlineBook › q...
3.	http://assets.vmou.ac.in › PGDLL06

Mapping with Programme Outcomes:

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5
CO 1	2	3	3	3	2
CO 2	2	3	2	3	2
CO 3	3	2	3	2	3
CO 4	2	2	3	2	3
CO 5	3	2	3	2	3

Strong-3   Medium-2   Low-1

Level of Correlation between PSO's and CO's

CO /PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	3	3	2
CO2	2	3	2	3	2
CO3	3	2	3	2	3
CO4	2	2	3	2	3
CO5	3	2	3	2	3

Strong-3   Medium-2   Low-1

Course Code	Course Title	Category	Credits	Inst. Hours	Marks		
					CIAE	External	Total
23PECCC23	**Mathematical Economics**	Core	4	6	25	75	100

	Learning Objectives						
L1	The paper aims to introduce students to the basic building blocks of mathematical analysis used in modern economic theory.						
L2	To equip the students with mathematical tools and to optimize both static and dynamic economic environment.						

UNIT	Contents	No. of Hours
I	**Introduction to Linear Algebra** Sets-Basic concepts-Ordered sets-Relations-Order relations-Metric Spaces-open and closed sets– Convergence - Linear Algebra , Vectors, matrices, inverse, simultaneous linear equations, Cramer's rule for solving system of linear equations, input-output model, Hawkins - Simon condition, open and closed models , quadratic equation, characteristic (eigen) roots and vectors	18
II	**Differential Calculus** Introduction to Functions, Limits and Continuity, Derivatives – Concept of maxima & minima, elasticity and point of inflection. Profit & revenue maximization under perfect competition, under monopoly. Maximizing excise tax revenue in monopolistic competitive market, Minimization of cost etc.	18
III	**Optimization Techniques with Constraints** Functions of several variables, Partial and total, economic applications, implicit function theorem, higher order derivatives and Young's theorem, properties of linear homogenous functions, Euler's theorem, Cobb – Douglas Production Function - Constrained Optimization-Lagrangian Multiplier Technique- Vector and Matrix Differentiation -Jacobian and Hessian Matrices- Applications-Utility maximization, Profit maximization and Cost minimization.	18
IV	**Linear and Non-Linear Programming** Optimization with Inequality Constraints- Linear Programming–Formulation-Primal and Dual- Graphical and Simplex method-Duality Theorem-Non-Linear Programming-Kuhn-Tucker Conditions- Economic Applications.	18
V	**Economic Dynamics** Differential Equations-Basic Ideas-Types-Solution of Differential Equations (Homogenous and Exact)-Linear Differential Equations with Constant Coefficients (First and Second Order)- Applications-Solow's Model-Harrod-Domar Model-Applications to Market models- Difference Equations - Types-Linear Difference Equations	18

with Constant Coefficients (First and Second order) and solutions – Applications- Samuelson's Accelerator-Multiplier model-Cobweb model.

Course Outcomes		Knowledge Level
CO	**On completion of this course, students will**	
1	Understand the mathematical structure of standard economic theoretical framework	K1,K2,K3,K4,K5
2	Equip students with mathematical tools to solve optimization problems appear in economic theory	K1,K2,K3,K4,K5
3	Equip students with tools to read the technical writing appear in standard economic journals	K1,K2,K3,K4,K5,K6
4	Analyse the dynamics of macroeconomic policies in an economy	K1,K2,K3,K4,K5,K6
5	Analyse mathematically the dynamics of the growth process in an economy	K1,K2,K3,K4,K5,K6

Textbooks	
1	Geoff Renshaw,(2016)Maths for Economics, 4E Oxford University Press.
2	Mabbet A J (1986) Workout Mathematics for Economists, Macmillan Master Series, 4th Edition London.

Reference Books	
1.	Carter, M. (2001). Foundations of Mathematical Economics, MIT Press.
2.	Chiang, A. C. and Wainwright, K. (2005). Fundamental Methods of Mathematical Economics, McGraw-Hill Education.
3.	Dowling E. T., Mathematics for economists, Schaum Series (latest edition).

Web Resources	
1.	https://www.udemy.com/course/mathematics-for-economists-functions-and-derivatives/
2.	https://www.classcentral.com/course/swayam-mathematical-economics-14187
3.	https://www.coursera.org/learn/introduction-to-calculus

Mapping with Programme Outcomes:

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5
CO 1	3	3	3	3	3
CO 2	3	3	3	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	3	3
CO 5	3	3	3	3	3

Strong-3   Medium-2   Low-1

Level of Correlation between PSO's and CO's

CO /PO	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

Strong-3   Medium-2   Low-1

Course Code	Course Title	Category	Credits	Inst. Hours	Marks		
					CIAE	External	Total
23PECDE21	**Gender Economics**	Elective	3	4	25	75	100

	Learning Objectives
L1	To evaluate sources of socio-economic and demographic information for analyzing the impact of the gender factor on demographic processes and economic development
L2	It enables to foresee the contributions of women as active economic agents and strategies to empower women and reduce gender inequalities.

UNIT	Contents	No. of Hours
I	**Introduction** Definition- Objectives of Gender Studies - Importance of gender Studies -Women and work: unpaid, underpaid and casual work - Women in primary, secondary and tertiary sectors - Classification of work in Indian census and NSSO – Main workers, marginal workers, non-workers - Invisibility of women's work, problems in measurement - Non-recognition of women's work in national income accounting	12
II	**Gender Inequality in Labor Market** Segmented Labor Market and Occupational Segregation - Gendered jobs and Social Inequality - Sex Segregation at Work Place - Globalisation and its impact on gender - Issues of wage discrimination and exploitation in unogranised sector - Women's participation in organised sector - Gender Discrimination - Gender issues at the work place	12
III	**Social Empowerment** Women in Higher Education - Gender issues in Health, Environment, Family welfare Measures - Indecent representation of Women in media - Women in Difficult circumstances; Constitutional.	12
IV	**Economic Empowerment** Introduction - organized sector, unorganized sector - Role of Women in Economic Development – Female Poverty and Poverty alleviation programmes - Status of Women farmers and land rights - Women Entrepreneurs - Impact of Globalization on working women - National Policy for the empowerment of women 2001.	12
V	**Social issues and Women in Indian Planning** Issues in the Unorganized sector of Employment - Women's work: Status and problems - problems of Dalit women - Invisibility of women in official data system - Absence of gender disaggregated data - Initiatives towards recognition of women as agents of development from sixth five year plan.	12

	Course Outcomes	Knowledge Level
CO	On completion of this course, students will	
1	Understand the Gendered jobs and Social Inequality	K1,K2,K3,K4,K5
2	describes the Issues of wage discrimination and exploitation in unogranised sector	K1,K2,K3,K4,K5
3	Explain the Gender issues in Health, Environment, Family welfare Measures	K1,K2,K3,K4,K5,K6
4	Evaluate the Impact of Globalization on working women and National Policy for the empowerment of women 2001	K1,K2,K3,K4,K5,K6
5	Assess the Initiatives towards recognition of women as agents of development from sixth five year plan.	K1,K2,K3,K4,K5,K6
Textbooks		
1	Eswaran, M. (2014). *Why gender matters in economics*. Princeton University Press.	
2	Becchio, G. (2019). *A History of Feminist and Gender Economics*. Routledge.	
Reference Books		
1.	Humphries, J. (1995). *Gender and economics*. Edward Elgar Publishing.	
2.	Dijkstra, G., & Plantenga, J. (2013). *Gender and economics: a European perspective*. Routledge.	
3.	Negra, D., & Tasker, Y. (2014). *Introduction. Gender and recessionary culture. In Gendering the Recession* (pp. 1-30). Duke University Press.	
Web Resources		
1.	https://www.academia.edu › 9_Ch_1_Gender_Economi...	
2.	https://ftp.iza.org › .	
3.	https://www.oecd.org › derec › world bank group	

Mapping with Programme Outcomes:

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5
CO 1	2	3	3	3	2
CO 2	2	2	2	3	2
CO 3	3	2	3	3	2
CO 4	2	2	2	2	3
CO 5	3	2	3	2	3

Strong-3   Medium-2   Low-1

Level of Correlation between PSO's and CO's

CO /PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	2	3	3	3	2
CO2	2	2	2	3	2
CO3	3	2	3	3	2
CO4	2	2	2	2	3
CO5	3	2	3	2	3

Strong-3   Medium-2   Low-1

Course Code	Course Title	Category	Credits	Inst. Hours	Marks		
					CIAE	External	Total
23PECGE21	**Resource Economics**	Elective	3	4	25	75	100

Learning Objectives		
L1	To trace the resources in the country	
L2	To understand the quality of the available natural resources.	
UNIT	**Contents**	**No. of Hours**
I	**Introduction** Land Resources in India - Types of soil- Land resource Classification -Forest ,Barren land, Pastures and grazing land, cultural Waste Land, Fallow Land, Agricultural Land -Net Sown Area - Land degradation and soil Erosion-Preventive Measures.	12
II	**Role of Resources in Economic Development** Forest Resources-Role of Forests in Economic Development-Forest cover in India- Deforestation-Effects of Deforestation-Urban Forestry - Objectives of Urban Forestry- Social Forestry-Constraints in Social Forestry - Collective Participatory Forest Management – Recent National Forest Policy Act	12
III	**Water Resources in India** Water Resources in India -Surface Water –Ground Water –Water Demand and Utilisation- Water Resource Planning- Multi –objective Approach-Benefit Cost Ratio-Capital outlay-Environmental Impact Assessment (EIA)-Manageability of the project-Sustainable Water Management-Recent National Water Policy	12
IV	**Mineral Resources** Mineral Resources- Metallic Minerals-Non Metallic Minerals – Mineral Fuels-Environmental Costs of Extracting Mineral Resources-Environmental Impacts of Mineral Resource Extraction and Use-Mineral Conservation and Development Rules (1988)	12
V	**Conservation and Management of Natural Resources** Conservation and Management of Natural Resources - Meaning and objectives of Conservation. Conservation of Renewable Resources: Soil conservation- Water conservation-Forests conservation-Fish Conservation-Biodiversity Conservation. Conservation of Non Renewable Resources: Energy Conservation-Mineral Conservation	12

Course Outcomes		Knowledge Level
CO	**On completion of this course, students will**	
1	Ability to understand land resources in India and the issues related to it	K1,K2,K3,K4,K5
2	Assess the availability of Forest resources and understand the methods to conserve the resources	K1,K2,K3,K4,K5

3	Understand the water resources in the country and related environmental issues	K1,K2,K3,K4,K5,K6
4	Trace the mineral resources in the country	K1,K2,K3,K4,K5,K6
5	Ability to know about conservation of Natural Resources	K1,K2,K3,K4,K5,K6

Textbooks

1	M.L.Jhingan, Chandar K.Sharma (2007) Environmental Economics Theory, Management and Policy, Vrindha Publications, New Delhi
2	G.Paneerselvam (2008) Economics of Natural Resources in India , Abhijeet Publications ,New Delhi

Reference Books

1.	Jon .M.Conrod (2010), Resource Economics ,Cambridge University Press,U.K
2.	John C.Bergstrom& Alan Randall (2010), Resource Economics –An Economic Approach to Natural Resource and Environmental Policy, Edward Elgar Pub,Ltd
3.	Judith Rees (2019) Natural Resources Allocation Economics and Policy,Routledge,UK

Web Resources

1.	https://www.india.gov.in/topics/environment- forest/natural-resources
2.	https://ibm.gov.in/writereaddata/files/09182018162439 Mineral%20Scenario%20pdf.pdf

Mapping with Programme Outcomes:

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5
CO 1	3	3	3	3	3
CO 2	3	3	3	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	3	3
CO 5	3	3	3	3	3

Strong-3   Medium-2   Low-1

Level of Correlation between PSO's and CO's

CO /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

Strong-3   Medium-2   Low-1

Course Code	Course Title	Category	Credits	Inst. Hours	Marks CIAE	Marks External	Marks Total
23PECSE21	**Social Ethics and Responsibilities – Women Empowerment, Disability, Social Inclusion.**	SEC	2	4	25	75	100

Learning Objectives	
L1	To understand the importance of Ethical Values.
L2	To equip the students with social responsibilities

UNIT	Contents	No. of Hours
I	**Introduction** Social Ethics – Definition - -Ethical Model: Golden Rule Model and Kantian Model-Ethical Decision-making, Ethical Dilemmas in Organization, Corporate Governance- Types of Ethical Issues - Theft - Bribery and Corruption - Exploitation of Employees – Discipline - Whistle Blowing.	12
II	**Workplace and Professional Ethics** Ethical Issues in Workplace- Types - Accountability - Employee Favoritism -Bad Leadership Behavior- Gender Ethics- Sexual Harassment and Discrimination.	12
III	**Social Responsibility of Business** Social Responsibility of Business – Shareholders-Employees - Customers-Community and Government - Corporate Social Responsibility Initiatives -Dimensions-Ethics of Environment Protection & Pollution Control.	12
IV	**Social Inclusion** Meaning of Social Inclusion and Exclusion – Dimensions of Social Inclusion- Gender Inclusion and Equality	12
V	**Opportunities for Disabled** Mainstreaming Disability- Provision of Employment Opportunities for disabled – Indian Government Schemes – Ministry of Social Justices and Empowerment	12

	Course Outcomes	Knowledge Level
CO	**On completion of this course, students will**	
1	Understand the importance of Ethics and outlining the various types of Ethical Issues in an organization	K1,K2,K3,K4,K5
2	Categories the ethical issues in the workplace	K1,K2,K3,K4,K5
3	Evaluate the need for Corporate Social Responsibility	K1,K2,K3,K4,K5,K6
4	Design Policies for Social inclusion	K1,K2,K3,K4,K5,K6
5	Know various schemes for disabled	K1,K2,K3,K4,K5,K6

	Textbooks
1	Jenny Teichman (1996) Social Ethics A Student's Guide Wiley Blackwell
2	John S.Feinburg and Paul D.Feinburg(2010) Ethics for a Brave New World, Crossway.
	Reference Books
1.	Denis Collins and PatriciaKanashiro (2017) Business Ethics: Best Practices for Designing and Managing Ethical Organizations SAGE Publications, Inc; Third edition
2.	William H.Shaw (2016) Business Ethics : A textbook with Cases Cengage Learning
3.	Govindarajan M.,Senthilkumar M.S. Natarajan (2013)Professional Ethics and Human Values, PHI
	Web Resources
1.	https://pachamama.org/social-justice/social-responsibility-and-ethics
2.	http://www.fimt-ggsipu.org/study/bbabi310.pdf
3.	https://www.socialworkers.org/About/Ethics/Ethics-Education-and-Resources

Mapping with Programme Outcomes:

CO /PO	PO 1	PO 2	PO 3	PO 4	PO 5
CO 1	3	3	3	3	3
CO 2	3	3	2	3	3
CO 3	3	3	3	3	3
CO 4	3	3	3	2	3
CO 5	3	3	3	3	3

Strong-3   Medium-2   Low-1

Level of Correlation between PSO's and CO's

CO /PSO	PSO1	PSO2	PSO3	PSO4	PSO5
CO1	3	3	3	3	3
CO2	3	3	2	3	3
CO3	3	3	3	3	3
CO4	3	3	3	2	3
CO5	3	3	3	3	3

Strong-3   Medium-2   Low-1