Department of Economics (PG)
Programme Specific Outcomes (PSOs)

On the successful completion of the Postgraduate programme, the students will be able to

PSO1 **Disciplinary Knowledge**	acquire advanced knowledge in economic theories, principles and quantitative methods and apply them to analyse economic phenomena by using mathematical and statistical techniques
PSO2 **Communication Skills**	discover the impact of changing communication methods on society and to develop knowledge, skills and judgement that facilitate their ability to work collaboratively with others.
PSO 3 **Problem Solving & Analytical Reasoning**	acquire analytical reasoning, problem solving skills, technical skills, critical and reflective thinking through modern methods of learning.
PSO 4 **Critical Thinking**	evaluate the economic policies and development strategies, and propose evidence-based policy alternatives that promote sustainable development and equitable growth.
PSO 5 **Research Skills**	develop research competence and methodological skills to design and execute research projects in economics and effective communication of research findings.
PSO 6 **Digital Literacy**	higher level of digital literacy and learning through ICT and its enabled tools. To develop the capability to statistical package and ability to access online educational resources.
PSO 7 **Professional competencies**	develop the entrepreneurial skills, innovative practices, modern technology, utilization of resources and computer applications in business to compete with international trade.
PSO 8 **Moral and Ethical Awareness/Reasoning**	ethical and moral issues in economics to be more socially responsible and reasonable.
PSO 9 **Multicultural Competence**	possess knowledge of the values and beliefs of multiple cultures and a global perspective of Indian value based multiculturalism .
PSO 10 **Self-directed& Lifelong Learning**	self-directed learning lead to higher level of engagement resulting in better academic and personal achievement towards sustainable personality development

DEPARTMENT OF ECONOMICS (PG)
Learning Outcomes-based Curriculum Frame work (LOCF)
w.e.f 2024-2025

Sem	Category	Course Code	Course Title	Hours /Wk	Credits	Marks
1	CC	24PEC4501	Advanced Micro Economics	6	5	100
1	CC	24PEC4401	Statistics for Economists	5	4	80
1	CC	24PEC4403	Indian Economic Development and Policy	5	4	80
1	CC	24PEC4405	Rural Economics	5	4	80
1	DSE	24XXXNNNN	*Discipline Specific Elective –I*	5	3	60
1	GE	24PECXXXX	*Generic Elective - I*	4	3	60
			Total	**30**	**23**	**460**
2	CC	24PEC4502	Monetary Economics	6	5	100
2	CC	24PEC4402	Mathematical Economics	5	4	80
2	CC	24PEC4404	Labour Economics	5	4	80
2	CC	24PEC4406	Agricultural Economics	5	4	80
2	DSE	24XXXNNNN	*Discipline Specific Elective - II*	5	3	60
2	GE	24PECXXXX	*Generic Elective- II*	4	3	60
			Total	**30**	**23**	**460**
3	CC	24PEC5501	Advanced Macro Economics	6	5	100
3	CC	24PEC5503	Public Economics	6	5	100
3	CC	24PEC5505	Research Methodology	6	5	100
3	CC	24PEC5401	Econometric Methods	6	4	80
3	DSE	24XXXNNNN	*Discipline Specific Elective – III*	6	4	80
3	IS	24PEC5233	Internship*	-	2	40
			Total	**30**	**25**	**500**
4	CC	24PEC5502	International Economics	6	5	100
4	CC	24PEC5504	Development Economics	6	5	100
4	CC	24PEC5402	Urban Economics	6	4	80
4	DSE	24XXXNNNN	*Discipline Specific Elective -IV*	6	4	80
4	CC	24PEC5507	Project	6	5	100
4	SEC	24PEC5244	Professional Competency Skill	-	2	40
			Total	**30**	**25**	**500**
Grand Total				**120**	**96**	**1920**

*Internship – First Year Vacation (30 Hrs)

Discipline Specific Elective (DSE)

Sem	Category	Course Code	Course Title	Hours/Wk	Credits	Marks
1	DSE	24PEC4301	Gender Economics	5	3	60
		24PEC4303	Economics of Infrastructure			
2		24PEC4302	Computer Applications in Economics	5	3	60
		24PEC4304	Human Development			
3		24PEC5403	Health Economics	6	4	80
		24PEC5405	Modern Economic Thought			
4		24PEC5404	Actuarial Economics	6	4	80
		24PEC5406	Small Business Management			

Generic Elective (GE)

Sem	Category	Course Code	Course Title	Hours/Wk	Credits	Marks
1	GE	24PEC4305	Economics in Everyday life	4	3	60
		24PEC4307	Personality Development			
2		24PEC4306	Economics of Climate Change	4	3	60
		24PEC4308	Economics of Social Issues			

Value Added Courses

Sem	Category	Course Code	Course Title	Hours/Wk	Credits
2	VAC	24PEC422V	Export and Import Procedures	2	2
3		24PEC521V	Economics of Education	2	2

Mapping with PO's

PEC	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
	3	2	2	2	3	2	2	2	2	3

Mapping with PSO's

Courses	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
24PEC4501	3	2	1	2	2	3	2	1	1	2
24PEC4401	3	3	2	2	2	3	2	2	2	3
24PEC4403	3	2	3	2	3	3	2	1	2	2
24PEC4405	3	3	2	2	3	3	2	2	2	2
24PEC4301/ 24PEC4303	3	3	2	2	3	2	2	2	2	3
24PEC4502	3	2	2	2	2	2	2	3	2	3
24PEC4402	3	2	2	2	2	1	1	2	1	2
24PEC4406	3	2	2	3	3	2	2	1	2	2
24PEC4408	3	2	3	2	2	2	3	2	3	3
24PEC4302/ 24PEC4304	3	2	3	2	3	3	2	2	2	3
24PEC5501	3	2	2	2	2	2	2	2	2	3
24PEC5503	3	2	2	2	2	3	2	2	2	3
24PEC5505	3	2	3	2	3	3	2	3	2	3
24PEC5401	3	2	3	3	3	3	3	1	2	3
24PEC5403/ 24PEC5405	3	3	3	3	3	3	3	3	2	3
24PEC5233	3	3	2	3	2	2	3	2	2	2
24PEC5502	3	1	2	2	3	2	2	3	2	3
24PEC5504	3	1	2	2	3	2	2	3	2	3
24PEC5502	3	3	3	2	1	2	2	2	1	3
24PEC5404/ 24PEC5406	3	2	3	3	2	3	2	3	3	2
24PEC5506	3	3	3	3	3	3	1	1	1	3
24PEC5244	3	2	2	2	3	3	1	2	1	3
Average	**3**	**2.2**	**2.4**	**2.3**	**2.5**	**2.5**	**2**	**2**	**1.9**	**2.7**

Mapping of Courses with POs

Courses	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
24PEC4305/ 24PEC4307	3	2	3	2	2	2	2	2	2	3
24PEC4306/ 24PEC4308	3	3	2	2	3	2	2	2	2	2
Average	**3**	**2.5**	**2.5**	**2**	**2.5**	**2**	**2**	**2**	**2**	**2.5**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC4501	Advanced Micro Economics	Core	6	5

The objective of this course is to explain the economic behavior of consumers, producers and their inter-play in determining the equilibrium of the market. This course also throws light on various market structures, factor pricing, alternate theories of the firm and decision making in asymmetric conditions.

Course Outcomes

At the end of the course, students will be able to

CO1: explain and analyze the theories of consumer behavior

CO2: illustrate and identify the choice under uncertainty

CO3: compare how price and output is determined in different market structures

CO4: examine the alternative theories of firms

CO5: define, explain and compare the theory of distribution

Unit I: Consumer Choice (18 Hours)

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.

Unit II: Economics of Information (18 Hours)

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.

Unit III: Market Structure (18 Hours)

Perfect competition – Price and output determination – Optimum firm - Monopoly – Short run and long run equilibrium - Price discrimination - monopoly control and regulation – Contestable Market - Monopolistic competition – Chamberlin Model - selling costs – Excess capacity–Oligopoly–Duopoly price game – dominant strategy – Nash Equilibrium Non –collusive Models- Cournot -Bertrand – Chamberlin – Edge worth – Sweezy – Stackelberg - Oligopoly-Collusive Models – Cartels and mergers- Price leadership – Base point price system – Monopsony – Price and output determination – Workable competition.

Unit IV: Alternative Theories of Firm (18 Hours)

Full Cost Pricing Rule - Limits pricing theory - Bains Theory – Sylos - Labini Model - Modigliani's Models – Input – output model - Linear programing applications in decision making – Peak Load Pricing – Administered Pricing - Purchasing Power Parity Price.

Unit V: Distribution Theories (18 Hours)

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.

Learning Resources

Text Books

1. Agarwal, J.H.S,(2005), *Micro Economic Theory,* Ane's Books Private Limited, New Delhi.

2. Jhingan, M.L., (2004), *Advanced Economic Theory*, Vrindha Publications Private Limited, New Delhi.

References

1. Saket Kushwaha, (2023), *Advanced Microeconomics,* AkiNik Publications, New Delhi.
2. Ahuja, H. L. (2017), Advanced *Economic Theory*, S. Chand & Company Ltd, New Delhi
3. Hal R.Varian,(2004), *Intermediate Micro Economics*, East - West Press, New Delhi
4. Ruffin Roy.J, (1992), *Intermediate Micro Economics,* Harper & Collins Publishers, New Delhi.
5. Koutsyiannis, A, (1978), *Modern Micro Economics*, Macmillan, London.

Websites / e - Learning Resources

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

CO – PSO Mapping

CO /PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO1	3	3	2	2	3	3	1	2	2	2
CO2	3	2	1	3	3	3	2	1	1	3
CO3	3	3	1	2	2	3	1	2	2	2
CO4	3	2	1	2	1	3	2	1	1	2
CO5	3	2	2	2	2	3	2	1	1	3
Average	3	2.4	1.4	2.2	2.2	3	1.6	1.4	1.4	2.4

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC4401	Statistics for Economists	Core	5	4

This course offers a robust grounding in statistical concepts while enhancing proficiency in data management and research skills. The course covers fundamental probability theory, the central limit theorem, hypothesis testing, confidence intervals, regression analysis, model fitting and basic error analysis techniques.

Course Outcomes:

At end of the course, the students will be able to

CO1: explain the basic probability rules and understand theoretical distributions.

CO2: discuss the various sampling methods and testing of hypotheses.

CO3: analyse the test and chi square.

CO4: describe the importance of one and two way ANOVA.

CO5: examine the various decision making tools available.

Unit I: Probability (15 Hours)

Probability - Addition and Multiplication Theorems - Conditional Probability Discrete and Continuous - Random Variables - Mathematical Expectations – Bayes Theorem Theoretical Distributions - Binomial, Poisson and Normal.

Unit II: Sampling and Hypothesis Testing (15 Hours)

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.

Unit III: Test of Significance Large and Small Sample (15 Hours)

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.

Unit IV: Analysis of Variance (15 Hours)

F test: Assumptions in F test – Analysis of Variance: Assumptions – One-Way and Two – Way Classifications.

Unit V: Statistical Decision Theory (15 Hours) Definitions – Concepts – Maximin – Minimax – Bayes Criterion Expected Monetary Value - Decision Tree Analysis: Symbols - Steps – Advantages and Limitations.

Learning Resources

Text Books

1. Gupta,S.P.,(2017), *Statistical Methods*, Sultan Chand and Sons, New Delhi.
2. Anderson Sweeney and Williams, (2014), *Statistics for Business and Economics*, Cengage Learning, USA.

References

1. Vittal,P.R, (2021), *Business Statistics*, Margham Publications. Chennai.
2. Pillai,R.S.N, and Bagavathi ,V., (2010), *Statistics*, Sultan and Chand Sons, New Delhi.
3. Agarwal,Y.P,(2002), *Statistics Methods Concepts Application and Computation,* Sterling Publishers Private Limited, New Delhi.
4. Grewal P.S,(1990), *Methods of Statistical Analysis*, Streling Publishers Private Limited. Bangalore.
5. Bulmer, M.G. (1979), *Principles of Statistics*, Dover Publications. Oxford University Press, New Delhi.

Websites/ e – Learning Resources

1. https://www.geeksforgeeks.org/introduction-of-statistics-and-its-types/
2. https://www.cuemath.com/data/statistics/
3. https://www.itu.int/en/ITU-D/Statistics/Pages/stat/default.aspx

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	3	3	3	3	3	3	2	2	2
CO 2	3	3	3	3	3	3	3	1	2	3
CO 3	3	2	3	1	3	3	3	2	-	2
CO 4	3	2	3	2	2	3	3	1	2	2
CO 5	3	2	2	3	3	3	3	1	2	2
Average	3.0	2	2.8	2.4	2.8	3.0	3.0	1.4	1.6	2

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/wk	Credits
24PEC4403	Indian Economic Development and Policy	Core	5	4

This study examines the development strategies implemented in India since independence. It aids   in designing development policies by evaluating various sectoral and macroeconomic policies affecting the Indian economy. The course also explores the effects of structural changes and their impact on the Indian economy.

Course Outcomes

At the end of the course, students will be able to

CO1: explain the structural change in Indian economy.

CO2: assess the performance of agricultural and Industrial sector.

CO3: analyze the trends in Indian economy.

CO4: discuss the impact of poverty.

CO5: identify and evaluate the social issues like unemployment, gender disparities.

Unit I: Introduction (15 Hours)

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.

Unit II: Agricultural and Industrial Sector (15 Hours)

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.

Unit III: Fiscal Developments (15 Hours)

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.

Unit IV: Poverty and Inequality (15 Hours)

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.

Unit V: Social Sector (15 Hours)

Social Issues Gender gap in India and trends in female labor force participation rates, factors determining female labor force participation- Employment: changing nature of employment in India, "jobless growth"- Labor in informal sector- India's graphic transition.

Learning Resources

Text Books

1. Gaurav Datt, (2024) *Indian Economy*, S. Chand and company, Uttar Pradesh.
2. Misra, S., & Puri, V, (2020.), *Indian Economy*, S. Chand Publications. New Delhi.
3. Sundaram, K P M., (2002), *Indian Economy*, S. Chand Publications. New Delhi.

References

1. Ramesh Singh, (2024) *Indian Economy*, McGraw Hill, Standard Edition, Noida, Uttar Pradesh.

2. Uma Kapila (2022), *Indian Economy since Independence*, Academic Foundation, 34th Edition, New Delhi
3. Dutt. R. and Sundaram, K. P. M. (2015), *Indian Economy*, 62nd Edition Sultan Chand & Sons, New Delhi.
4. Kaushik Basu, (2012), *Oxford Companion to Indian Economy*, 3rd Edition, OUP, New Delhi.
5. Centre for Monitoring Indian Economy, Mumbai – Recent Issues

Web sites / e – Learning 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/

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO 10
CO 1	3	3	3	2	2	3	2	3	2	3
CO 2	3	2	2	2	1	3	3	2	3	3
CO 3	3	3	2	1	2	3	2	3	2	3
CO 4	3	2	3	2	2	3	2	2	3	2
CO 5	3	3	2	2	2	3	2	2	2	3
Average	3.0	3.0	2.4	1.8	1.8	3.0	2.2	2.4	2.4	2.8

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/WK	Credits
24PEC4405	Rural Economics	Core	5	4

This paper aims to help students grasp the concepts, theories and issues related to rural economics. It also focuses on analysing patterns of economic diversification in rural areas and evaluating the role of infrastructure in promoting rural development.

Course Outcomes

At the end of the course, students will be able to

CO1: labeling and interpret the nature and scope of rural economics.

CO2: specific and demonstrate the theories of rural development and rural resources.

CO3: recalling, outline and determine rural demography and occupation structure.

CO4: examine and evaluate rural poverty and unemployment.

CO5: summarizing, develop and explain the rural empowerment programs.

Unit I: Introduction to Rural Economics (15 Hours)

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

Unit II: Rural Resources and Rural development theories (15 Hours)

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

Unit III: Rural Demography and Occupational Structure (15 Hours)

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.

Unit IV: Rural Poverty and Unemployment (15 Hours)

Rural Poverty: Meaning, Estimates, Causes and Consequences – Unemployment: Meaning, Types and Magnitude of Rural Unemployment - Causes and Consequences - National Programs for Rural Development - Community Development Programs and Employment Guarantee Schemes.

Unit V: Rural Empowerment Programs (15 Hours)

Bharat Nirman, Provisions of Urban Amenities in Rural Area (PURA), Mahatma Gandhi National Rural Employment Guarantee Act - Agencies for Rural Development: Government, Semi-Government Organizations, Co-Operative Institutions, Non-Government Organizations and Voluntary Agencies for Rural Development.

Learning Resources

Text Books

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

References

1. Singh,K & Shishodia, A, (2016), *Rural Development : Principles, policies, and management,* SAGE Publishing India, New Delhi.
2. Sankaran, S. (2014), *Rural Economics*, Margham Publications, Chennai, Tamil Nadu
3. Hoff,K., Braverman, A., & Stiglitz, J. E., (1993), *The Economics of Rural Organization*, Oxford University Press, New Delhi.
4. Hill, B., & Ray, D, (1987), *Economics for Agriculture: Food, Farming and the Rural Economy,* Macmillan Education, UK.
5. Peter, K V, (1984), *Rural Economics*, Himalaya Publishing House, Bombay.

Websites/ e – Learning 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/202108/11_Rural_Economy_Discussion_Paper_0.pdf

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO 1	3	3	2	1	3	3	1	2	2	3
CO 2	3	3	1	2	3	3	2	2	2	3
CO 3	3	3	2	3	3	3	2	2	1	2
CO 4	3	3	2	2	3	2	1	2	2	2
CO 5	3	3	2	2	3	3	2	2	2	2
Average	3	3	1.8	2	3	2.8	1.6	2.2	1.8	2.4

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/ wk.	Credits
24PEC4301	Gender Economics	DSE	5	3

This course evaluates sources of socio-economic and demographic information for analyzing the impact of the gender factors on demographic processes and economic development. It enables to foresee the contributions of women as active economic agents and strategies to empower women and reduce gender inequalities.

Course Outcomes:

At the end of the course, students will be able to

CO1: identify jobs that are gendered and explore how social inequalities are perpetuated through these roles.

CO2: describes the issues of wage discrimination and exploitation in unorganized sector.

CO3: explains the gender issues in health, environment and family welfare measures.

CO4: evaluate the impact of globalization on working women and national policy for the empowerment of women.

CO5: assess the initiatives towards recognition of women as agents of development from sixth five-year plan.

Unit I: Introduction   (15 Hours)

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.

Unit II: Gender Inequality in Labor Market   (15 Hours)

Segmented Labor Market and Occupational Segregation - Gendered jobs and Social Inequality - Sex Segregation at Work Place - Globalization and its impact on gender - Issues of wage discrimination and exploitation in unorganized sector - Women's participation in organized sector - Gender Discrimination - Gender issues at the work place

Unit III: Social Empowerment   (15 Hours)

Women in Higher Education - Gender issues in Health, Environment, Family welfare Measures - Indecent representation of Women in media - Women in Difficult circumstances

Unit IV: Economic Empowerment   (15 Hours)

Introduction - organized sector, unorganized sector - Role of women in Economic Development – Female Poverty and Poverty alleviation programs - Status of Women farmers and land rights - Women Entrepreneurs - Impact of Globalization on working women -
National Policy for the Empowerment of Women

Unit V: Social issues and Women in Indian planning   (15 Hours)

Issues in the Unorganized sector of Employment - Women's work: Status and 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.

Learning Resources

Text books

1. Becchio, G., (2020), *A History of Feminist and Gender Economics*, Routledge Taylor & Francis group. New York.
2. Eswaran, M., (2014), *Why gender matters in economics*, Princeton University Press. Wesleyan University.

References

1. Gender Economics: *Break thoughts in Research and Practice*, (2018), Pennsylvania, USA,
2. Negra, D., & Tasker, Y., (2014), *Introduction, Gender and recessionary culture, In Gendering the Recession*, Duke University Press.

3. Dijkstra, G., & Plantenga, J., (2013), *Gender and Economics: a European Perspective*, Routledge, New York.
4. Joyce P. Jacobsen, (2007), *The Economics of Gender*, Wiley-Blackwell Humphries, Wesleyan University.
5. Humphries J, (1995), *Gender and economics*, Edward Elgar Publishing. USA.

Websites/ e – Learning Resources
1. https://ourworldindata.org/economic-inequality-by-gender
2. https://www.ineteconomics.org/events/gender-and-economics
3. https://www.iaffe.org/assets/docs/Gender%20Economics.pdf

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	3	2	1	2	3	1	1	2	2	2
CO2	2	2	2	3	2	1	1	2	1	3
CO3	2	2	3	3	2	1	1	2	2	2
CO4	3	3	3	1	2	1	3	1	1	2
CO5	3	3	3	1	2	1	2	1	1	2
Average	2.6	2.4	2.4	2	2.2	1	1.6	1.6	1.4	2.2

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC4303	Economics of Infrastructure	DSE	5	3

The objective of this course is to familiarise students with the role of infrastructure in economic development and growth, as well as key issues related to financing, governance and inter-regional disparities. Additionally, the course aims to explore the main categories of infrastructure both physical and social with a particular focus on the Indian context.

Course Outcomes:

At the end of the course, students will be able to

CO1: explain the consequences of growth on the demand for infrastructure and dual principal controversies.

CO2: demonstrate and identify the importance of the cost and mode of transportation.

CO3: illustrate the role of energy and its infrastructure in Economic development.

CO4: examine the importance of renewable and non renewable energy.

CO5: discuss social Infrastructure and its relevance in the economy.

Unit I: Introduction (15 Hours)

Introduction - Infrastructure and economic development — Infrastructure as a public good; Social and physical infrastructure; Special characteristics of public utilities. The peak-load – Off-Load Problem – Dual Principle Controversy; Economies of scale of Joint supply Marginal Cost Pricing vs. other methods of pricing in public utilities

Unit II: Transport Economics (15 Hours)

Transport Economics – The structure of Transport Costs and Location of Economic Activities, Demand for Transport – Models of Freight and Passenger Demand Model Choice; Cost Functions in the Transport Sector – Principle of Pricing – Special Problems of Individual Modes of Transport; Inter-modal condition in the Indian Situation.

Unit III: Energy Economics – I (15 Hours)

Energy Economics – Primacy of Energy in the Process of Economic Development–Factors Determining Demand for Energy; Effects of Energy Shortages–Energy Conservation–Renewable and Non conventional Sources of Energy – Energy Modelling –The Search for an Optimal Energy Policy in the Indian Context.

Unit IV: Energy Economics–II (15 Hours)

Electricity, Gas and Water Supply - Bulk Supply and Pricing of Electricity – The Relative Economics of Thermal, Hydel and Nuclear Power Plants – The Case for a National Power Grid – Financing Water Utilities – Urban and Rural Water Supply – The Exploitation of Natural Gas – Pricing Problem.

Unit V: Social Infrastructure (15 Hours)

Social Infrastructure – Education and Economic Growth – The Case for Universal, Free, Primary Education; Structure of higher education and problems of its financing in India – Human Resources and Human Capital Development - Health dimensions of development; Determinants of Health - poverty, malnutrition, illiteracy and lack of information; Demand and supply of health care; Financing of health care; Inequalities in health - class and gender perspectives; Institutional issues in health care delivery.

Learning Resources:

Text Books

1. Barun Kumar, (2015), *Infrastructure Economics,* Vrinda Publications, Private Limited, New Delhi.
2. Crew, M.A. and P.R. Kleindorfer, (1979), *Public Utility Economics*, Macmillan, London.
3. Becker, G.S. (1974), *Human Capital* (2nd Edition), National Bureau of Economic Research, New York.

References

1. Chandiramani,J. Jha, R,(2012),   *Perspectives in Urban Development: Issues in Infrastructure, Planning and Governance*, Capital Publishing Company, New Delhi,.
2. McKinsey Global Institute.(2011), *Urban World: Mapping the Economic Power of Cities.* Mc Kinsey & Company.
3. India Infrastructure Report, (2006) *Urban Infrastructure*, 3i Network,
4. Indian Council of Social Science Research (ICSSR). *Economics of Infrastructure*, Vol – IV. New Delhi.
5. National Council of Applied Economic Research (1996). *India Infrastructure Report: Policy Implications for Growth and Welfare*. New Delhi.

Websites/ e – Learning Resources

1. https://niua.in/
2. https://censusindia.gov.in/
3. https://onlinecourses.nptel.ac.in/noc22__hs64/preview

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	3	3	2	1	2	3	3	1	1	3
CO2	3	3	2	2	2	3	2	2	2	3
CO3	3	3	2	2	3	3	2	1	1	2
CO4	3	3	3	3	3	3	2	2	2	2
CO5	3	3	3	3	3	3	3	1	2	3
Average	3	3	2.4	2.2	2.6	3	1.6	1.4	1.6	2.6

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/ wk.	Credits
24PEC4305	Economics in Everyday Life	GE	4	3

This course ensures the economic view of society and to familiarize the most basic concepts of economics. This course also helps the students to reason out and apply economic concept in everyday life.

Course Outcomes

At the end of the course, students will be able to

CO1: explain the price and identify its mechanism in economies function.

CO2: evaluate the value of economics in social customs of the society.

CO3: examine the evils happening in the economy and to identify and measures to overcome those evils.

CO4: analyze the importance of various dimensions of economics in the society.

CO5: discuss the role of economics in the effective functioning of the country.

Unit I: Thinking about Prices   (10 Hours)

What is price – How are prices determined: The concept of willingness to Pay-understanding Inflation: Meaning of Inflation and how it is measured in India- Inflation rate and the prices you pay in Shops: why they diverge - Application: why prices are higher in some locations than others although the production and selling costs are identical.

Unit II: Economics of Social Customs   (10 Hours)

Economics of rising age of marriage and declining family size – Economics of Divorce- How economic globalization is changing the Indian Family-Economics of gift-giving: why value of gift in kind is higher compared to gift in cash- Application: Reasoning about economic Inequality between men and women.

Unit III: Economics of Social Evils   (10 Hours)

Discrimination: Why discrimination can be rational and the economic harm it causes-Pollution: The economic roots of the pollution problem- Economics of the leisure -Addiction: Economic case or legalizing drugs as solution to addiction- Corruption-An Economists Perspective- application: Why prohibition does more harm than good: An Economic Perspective.

Unit IV: Economics of Arts, Sports, and Science   (15 Hours)

Understanding the declining demand for performing arts from economic perspective-Economics of Sports: Role of economic competition in sporting activity-Economics and Science: science perspective of economics –What motivates scientific research? -Application: How economic Globalization and commercialization enrich Indian music.

Unit V: National Issues   (15 Hours)

The Union Budget and you–Taxes, Subsidies and Fiscal Deficit-How the stock market works – Bulls and Bears- Gig economy - The global economic crisis: Its origin and impact on India- Application: Living through an economic downturn.

Learning Resources

Text Books

1. Robert J. Stonebraker., (2005), *The Joy of Economics*: *Making Sense of Life*, Winthrop University.
2. Tim Harford, (2000), *The Logic of Life: Discovering the New Economics of Everything*, London.

References

1. Manas Jain (2021), *Everyday Economics: Basic economic concepts which will change the way you see the world*, Shashwat Publication, New Delhi.
2. David George Surdam,(2015), *Century of the Leisured Masses: Entertainment and the Transformation of Twentieth-Century America,* Oxford University Press.

3. Penson, T. H., (2011), *The Economics of Everyday Life: A First Book of Economic Study,* Nabu Press Cambridge University Press.
4. Paul Hayne, (1998), *Economic Way of Thinking*, Prentice Hall. Washington University.
5. David D. Friedman,(1997), *Hidden Order: The Economics of Everyday Life,* Harper Business, University of Michigan.

Websites/ e – Learning Resources
1. https://www.economicshelp.org/blog/5628/economics/applying-economics-in-everyday-life/
2. https://www.sociologygroup.com/economics-in-everyday-life/
3. http://acdc2007.free.fr/woodcock2020.pdf

CO – PO MAPPING

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	3	3	3	2	2	3	3	2	2
CO 2	3	2	2	2	2	2	3	2	2	3
CO 3	3	3	3	3	2	3	2	3	1	2
CO 4	3	2	2	2	2	2	2	2	1	2
CO 5	2	2	3	2	2	2	2	2	1	2
Average	2.8	2.4	2.6	2.4	2	2.2	2.4	2.4	1.4	2.5

High : 3   **Medium: 2**   **Low: 1**

Course Code	Name of the Course	Category	Hours/Wk	Credits
24PEC4307	Personality Development	GE	4	3

The goal of this course is to equip students with the skills to analyze effective leadership qualities and personality development within the field of economics. Students will also gain insights into self-evaluation, the organizational context of leadership and personal growth.

Course Outcomes

At the end of the course, students will be able to

CO1: explain the importance of personality development.

CO2: analyze the characteristics of personality.

CO3: examine and analyze the concept of self-evaluation.

CO4: describes concept of qualities of personality development.

CO5: create the self-evaluation and organizational context of leadership and personality.

Unit I: Concept of Personality (12 Hours)

Personality - Definition and meaning, Importance, Leadership and Management, Leader vs Manager, Essential qualities of an effective leader

Unit II: Personality Characteristics (12 Hours)

Personality: Concept and Definition, Determinants of personality, Personality traits, Personality characteristics in organizations

Unit III: Self-evaluation (12 Hours)

Self-evaluation, locus of control, self - efficacy, self-esteem, self-monitoring: positive and negative Impact, organizational context of leadership and personality - Contemporary Business Leaders.

Unit IV: Qualities of Personality Development (12 Hours)

Body language - Problem-solving - Conflict and Stress Management - Decision- making skills - Character building - Team-work – Time management - Work ethics and etiquette.

Unit V: Aspects of Employability (12 Hours)

Resume building - Interactive session – Facing the Personal (HR &Technical) Interview – Self Introduction - Psychometric Analysis - Mock Interview Sessions**.**

Learning Resources

Text books

1. Mehta Jm (2020), *Personality Development Guide for Students*, Prabhat Prakashan Private Limited, New Delhi.
2. Mullins, L. J., & McLean, J. E., (2019), *Organisational Behaviour in the Workplace*, Harlow: Pearson. USA.
3. Alex, K, (2018), *Soft Skills*, S. Chand Publications, New Delhi.

References

1. Daniel K. Mroczek, Todd D. Little (2014), *Handbook of Personality Development*, Taylo & Francis.UK.
2. Parikh, M, & Gupta,R.K, (2010),*Organizational behavior*, Tata McGraw Hill Education, Private Limited, New Delhi.
3. Roberts, B.W,(2006), Personality Development and Organizational *Behavior*, Research in organizational behaviour, Volume 27.
4. Aurther, J., (2006). *Personality development*, Lotus Press. Punjab.
5. Hofmann, D.A, & Jones, L.M.,(2005), *Leadership, Collective Personality, and Performance*. Journal of Applied psychology, 2005, Vol. 90, No. 3,

Websites/ e – Learning Resources
1. https://hbr.org/2017/09/could-your-personality-derail-your-career
2. https://au.indeed.com/career-advice/resumes-cover-letters/personal-skills

3. https://socialsci.libretexts.org/cources/college_of_the_canyons/COMS_246%3A_Interpersonal_Communication_(Leonard)/2%3A_Communications_and_the_Self

CO – PO MAPPING

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	3	3	3	2	2	3	3	2	3
CO 2	3	2	2	2	2	2	2	2	2	2
CO 3	3	3	3	3	2	3	3	2	2	2
CO 4	3	2	2	2	2	2	2	2	2	3
CO 5	3	2	3	2	2	2	2	2	2	1
Average	3	2.4	2.6	2.4	2	2.2	2.4	2.2	2	2.2

High – 3 **Medium – 2** **Low – 1**

Course Code	Name of the Course	Category	Hours/wk	Credits
24PEC4502	Monetary Economics	Core	6	5

This course explores key issues in modern monetary economics, emphasizing the functions of banking and non-banking financial institutions, as well as the impact of financial reforms. It covers the central bank's role and shaping of economic outcomes.

Course Outcomes

At end of the course, students will be able to

CO1: explain the theories of money.

CO2: describe the various determinate of money supply and multiplier.

CO3: evaluate the capital market.

CO4: discuss the importance of banking sector.

CO5: analyze the monetary policy and instruments.

Unit I: Classical Theories of Money (18 Hours)

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.

Unit II: Supply of Money (18 Hours)

Supply of Money Types and determinants of money supply – Money Multiplier - Theories of interest rate – classical – Keynes – Hicks – Hansen.

Unit III: Money and Capital Market (18 Hours)

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.

Unit IV: Banking (18 Hours)

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.

Unit V: Monetary Policies (18 Hours)

Monetary Policy Objectives and Instruments of Monetary policy – Limitations of monetary policy - Monetarism and Keynesianism – Comparison - Supply side policies.

Learning Resources

Text Books

1. Seth, M.L, (2020), *Monetary Economics*, Lakshmi Narain Agarwal, New Delhi.
2. Mishkin, S. Frederic, (2015), *The Economics of Money, Banking and Financial Markets*, Pearson Publication. USA.
3. Bain, Keith and Howells, Peter (2009), *Monetary Economics: Policy and its Theoretical Basis, Palgrave* Macmillan, UK.

References

1. Penelope Hawkins, (2022), *Monetary Economics, Banking and Policy: Expanding Economic*, Taylor & Francis, New York.
2. David Currie, (2021), *Advances in Monetary Economics,* Taylor & Francis, New York.
3. Jhingan, M.L (2005), *Monetary Economics,* Konark Publication, New Delhi.
4. Vaish, M.C. (2004), *Money, Banking and International Trade*, New Age International, New Delhi.
5. Sundaram, K.P.M. (2003), *Money, Banking and International Trade*, Vikas, New Delhi.

Websites/ e – Learning Resources

1. https://www.amazon.in/Handbook-Monetary-Economics-Benjamin Friedmanebook/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

CO – PSO MAPPING

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	2	2	3	2	2	2	2	2	3
CO 2	3	3	1	2	3	3	2	2	2	2
CO 3	3	2	2	2	2	2	3	3	2	3
CO 4	3	3	3	2	2	2	2	2	3	2
CO 5	3	3	2	2	3	2	3	2	2	2
Average	3.0	2.6	2	2.2	2.4	2.2	2.4	1.6	2.2	2.4

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC4402	Mathematical Economics	Core	5	4

The course aims to familiarize students with fundamental mathematical analysis essential for modern economic theory. It equips students with mathematical tools to optimize both static and dynamic economic environments.

Course Outcomes

At the end of the course, students will be able to

CO1: explain the mathematical structure of standard economic theoretical framework.

CO2: analyze with mathematical tools to solve optimization problems appear in theory.

CO3: identify the tools to read the technical writing appear in standard economic journals

CO4: discuss the dynamics of macroeconomic policies in an economy

CO5: evaluate mathematical dynamics of the growth process in an economy

Unit I: Introduction to Linear Algebra (15 Hours)

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

Unit II: Differential Calculus (15 Hours)

Introduction to functions - Limits and Continuity- Derivatives – Concept of maxima and minima, elasticity and point of inflection, profit and revenue maximization under perfect competition and monopoly - Maximizing excise tax revenue in monopolistic competitive market, minimization of cost etc

Unit III: Optimization Techniques with Constraints (15 Hours)

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.

Unit IV: Linear and Non-Linear Programming (15 Hours)

Optimization with Inequality Constraints – Linear Programming – Formulation – Primal and Dual – Graphical and Simplex method – Duality Theorem – Non – Linear Programming – Kuhn – Tucker Conditions – Economic Applications.

Unit V: Economic Dynamics (15 Hours)

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

Learning Resources

Text books

1. Geoff Renshaw,(2016), *Maths for Economics*, Oxford University Press. New York.
2. Mabbet A J, (1986), *Workout Mathematics for Economists*, Macmillan Master Series, London**.**

References

1. Adil H. Mouhammed (2020), *Introductory Mathematical Economics,* Taylor & Francis New York.
2. Kemp, M.C. and Y. Kimura (2011), *Introduction to Mathematical Economics, Springer* New York.

3. Chiang, A. C. and Wain wright, K.(2005), *Fundamental Methods of Mathematical Economics,* McGraw-Hill Education, New York.
4. Carter, M., (2001), *Foundations of Mathematical Economics,* MIT Press. University of Hohenheim, Germany.
5. Dowling E.T. (1996), *Mathematics for Economists*, Schaum Series, Fordham University.

Websites / e - Learning Resources

1. https://nibmehub.com/opacservice/pdf/read/An%20Introduction%20to%20Mathematics%20for%20Economics.pdf
2. https://editorialexpress.com/jrust/econ425/readings/Alpha_chiang_4th_edition.pdf
3. https://archive.org/details/mathematicalanal033535mbp

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	3	2	1	2	3	1	2	1	3	2
CO2	3	1	2	3	3	1	2	1	2	2
CO3	3	3	2	3	3	2	1	1	2	2
CO4	3	2	1	3	3	2	2	2	1	2
CO5	3	3	2	3	3	2	1	1	2	2
Average	3	2.2	1.6	2.8	3	1.6	1.6	1.2	2	2

H**igh– 3**   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/Wk	Credits
24PEC4404	Labour Economics	Core	5	4

The aim of this course is to enable and acquire the knowledge which relating to the significance of labour market and also to analyse the importance of labour in economic development.

Course Outcomes

At the end of the course, students will be able to

CO1: explain the recent trends of labour and their productivity.

CO2: assess the determination of employment and wages.

CO3: discuss the trade unions and their impact on labour market.

CO4: evaluate the industrial relation.

CO5: analyse the current trends of social security measures.

Unit I: Labour Market and Policies (15 Hours)

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.

Unit II: Employment and Wage Determination (15 Hours)

Employment and Development relationship - poverty and unemployment, Unemployment types, concepts and measurement, Employment Policy Wage Determination - Classical, Neoclassical and Bargaining theories; Concepts of minimum wage and efficiency wage; Non - wage component.

Unit III: Trade Union Movement (15 Hours)

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

Unit IV: Industrial Relation (15 Hours)

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.

Unit V: Social Security and Reforms (15 Hours)

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.

Learning Resources

Text books

1. Kumar, N (2016), *Labour Economics,* Lakshmi Narain Agarwal, Agra.
2. Singh S.S., and Metha S, (1989), *Labour Economics*, Ajanta Prakasham New Delhi.
3. Pant C, (1978), *Indian Labour Problems*, Chaitanya Publishing House. Allahabad.

References

1. Ingrid H. Rima (2015), *Labour Markets in a Global Economy: A Macroeconomic Perspective*, Taylor & Francis, New York.
2. Peter Sloane, Paul L. Latreille, Nigel O'Leary (2013), *Modern Labour Economics*, Routledge, New York.
3. Tyagi P.B.,(1995), *Labour Economics and Social Welfare*, Jaiprakash Nath & Co. Meerut.
4. Giri V.V.(1985), *Labour Problems in Indian Industry* Asia Publishing House, Bombay.
5. Baholiwal T.N.,(1981), *Economics of Labour and Industrial Relations*, Sahity Bhawan, Agra.

Websites / e - Learning Resources
1. https://fac.ksu.edu.sa/sites/default/files/Modern_labor_economics_theory_and_public_policy_0.pdf
2. http://www.ilo.org/
3. https://labour.gov.in/

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO 10
CO 1	3	2	2	2	1	2	1	2	1	2
CO 2	3	2	2	3	2	2	1	2	1	2
CO 3	3	2	3	2	2	1	1	2	1	2
CO 4	3	2	2	2	2	1	1	1	2	1
CO 5	3	3	2	2	2	1	1	2	1	2
Average	3	2.2	2.2	2.2	1.8	1.4	1	1.8	1.2	1.8

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC4406	Agricultural Economics	Core	5	4

The objectives of this course provide the ideas base on the features and issues of agriculture, and also the course creates awareness among the students on Indian agriculture.

Course Outcomes

At the end of the course, students will be able to

CO1: assess the relevance of agricultural economics and agriculture productivity

CO2: review the role of agricultural labour and rural labour market

CO3: analyse the trends in agricultural prices and the importance of finance in agricultural sector

CO4: evaluate the importance of marketing in agriculture

CO5: discuss the impact of Globalization and WTO on Indian Agriculture

Unit I: Agricultural Economics (15 Hours)

Introduction, Scope and Significance of Agricultural Economics – Inter - Sectoral Linkages – Production Function Analysis – Relevance to Farm Production Economics - Productivity Trends; Low production and Productivity: Causes, Consequences and Measures - Farm size, productivity and efficiency in Indian Agriculture - A.K. Sen's Hypothesis - Role of Technology in Agriculture - Structural Changes in Agriculture.

Unit II: Agricultural Labour (15 Hours)

Agricultural Labour: Definition and Characteristics – Rural Labour Market - Rural Unemployment: Types, Consequences and Remedial Measures – Agricultural Wages in India – Male - Female Wage Differentials.

Unit III: Agricultural Prices and Finance (15 Hours)

Agricultural Prices - Reasons for Fluctuations in Prices - Procurement /Support Prices - Minimum Support Price – Buffer Stocks Commission for Agriculture Cost and Prices: objectives, functions and role in stabilization of Agriculture Prices - Commodity Markets - Agricultural Finance: Meaning, Types, Sources - and Commercial Bank sand NABARD - Farm Capital - Meaning, Types, and Marginal Efficiency of Farm Capital and Capital formation in Agriculture

Unit IV: Information Technology and Agriculture (15 Hours)

Role of Information Technology and telecommunication in marketing of agricultural commodities – Weather Forecasting- electronic auctions - Digital Mandi - Kisan Call Centres – e-Choupal - Use of Geographic Information System and Global Positioning System - Remote Sensing and Drones

Unit V: Globalization and impact on Agriculture (15 Hours)

Role of MNCs - Globalization of Indian Economy: Problems and Prospects of Indian Agriculture - Impact of WTO on Indian Agriculture- Agreement on Agriculture (AoA) – WTO Agriculture Subsidies Boxes and Criticisms.

Learning Resources

Text books

1. Subba Reddy S, Raghu Ram P,T.V Neelakanta Sastry and I. Bhavani Devi (2019), *Agricultural Economics,* Oxford & IBH Publishing Co Private. Limited.
2. Dantwala M.L (1991), *Indian Agricultural Development since Independence* Oxford and IBH Publishing Company private limited, New Delhi.

References

1. Barkley, A., & Barkley, P. W. (2016), *Principles of Agricultural Economics,* Routledge, New York.
2. Sloman,J ,Norris, K.& Garrett, D. (2013), *Principles of Economics, Pearson* Higher Education, London.

3. Andrew Barkley, Paul W. Barkley (2013), *Principles of Agricultural Economics*, Taylor & Francis. USA.
4. Reddy (2006), *Agricultural Economics*, IBH Publishing Company Private Limited Oxford University.
5. Colman, D., & Young, T. (1989), *Principles of Agricultural Economics: Markets and Prices in Less Developed Countries*, Cambridge University Press.

Websites / e- Learning Resources
1. https://www.rvskvv.net › images › principles- of-agri...
2. https://zalamsyah.files.word ress.com /2018/02 /6-agribusiness-management.pdf
3. https://agriwelfare.gov.in/

CO – PSO MAPPING

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	3	2	2	2	2	3	2	3	3
CO 2	3	3	2	2	1	2	2	2	2	3
CO 3	3	2	2	3	1	1	3	1	3	3
CO 4	3	2	1	2	2	2	2	2	2	3
CO 5	3	2	1	3	2	2	3	2	3	3
Average	3	2.2	1.6	2.4	1.6	1.8	2.8	1.8	2.8	2.8

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC4302	Computer Applications in Economics	DSE	5	3

The aim of this course is to introduce both quantitative and qualitative methods of data analysis through the use of computer applications.

Course Outcomes

At the end of the course, students will be able to

CO1: classify the various data and its use in Economics

CO2: evaluate various methodologies to analyse and apply data using computer

CO3: illustrate and draw inference by presenting data India grammatical way

CO4: explain and analyse parametric data to evaluate and built models

CO5: elucidate and analyze non-parametric data, as well as to evaluate and construct models more effectively.

Unit I: Introduction about Data (15 Hours)

What is data- Its Characteristics and Types – Importance of data in economic analysis and Policy Formation – Source of Data – Quantitative and Qualitative data analysis - Methods of Data Analysis

Unit II: Introductions to MS Office (15 Hours)

What is Suite – MS Word: Creating new Documents –Document template – Typing Text – Editing Text – Insert Text – Go to, Find, and Replace text or word - Formatting of Text – MS Excel - EXCEL: The typical worksheet or spread sheet - cell and their properties - formatting cell – Formula: using arithmetic and relational operators in a worksheet - Advanced Formulas: sum, count, Average, Max, Min, Product - Using auto format.

Unit III: Graphs, Charts and Introduction to Statistical Packages (15 Hours)

Bar diagrams, pie charts, Area - Building Line Diagrams, Histograms, Scatter plots - Frequency Graphs, Ogive, and Lorenz curve - Time Series – Introducing Statistical Packages – Uses – SPSS – GRETL - R Program - SAS – E- views - STATA

Unit IV: Data Analysis Using SPSS – I (15 Hours)

Naming variables - Coding and Recoding of data - Arithmetic calculations with invariables - Descriptive Statistics: Frequencies, Descriptive, Explore, Cross Tabulation - Compare Means: One sample T - test, Independent Sample T – test, paired sample T- test, One way ANOVA- Correlation: Bivariate, Partial- Regression: Linear, Curve Estimation, Multiple Regression.

Unit V: Data Analysis Using SPSS – II (15 Hours)

Classification: K - means cluster, Hierarchical cluster, Discriminate function – Nonparametric Test: Chi-square, Bi-nominal- Time Series – Exponential Smoothing, Autoregression, Seasonal Decomposition.

Learning Resources

Text Books

1. Myers,J.L.,&Well,A.D.,&Lorch, R.F.,Jr, (2010), *Research Design and Statistical Analysis* (3rd Edition). Mahwah, NJ: Erlbaum.
2. Urdan, T.,(2010) ,*Statistics in Plain English,* 3rd Edition. New York: Routledg Psychology Press.

References

1. Allen Webster, (2013), *Introductory Regression Analysis with Computer Application for Business and Economics,* Taylor & Francis,
2. Parsons J., OjaD.Ageloff R., Carey P, (2010), *New Perspectives on Microsoft Office Excel 2010,* Comprehensive, Course Technology First Edition.
3. Manuals (2002),– *SPSS, GRETL, R Program, SAS, Eviews, STATA*.
4. William E. Becker, Donald L. (1987), *Business and Economics Statistics with Computer Applications*, Addison-Wesley.

5. Lipschuztz M.M. and S. Lipschultz, (1982), *Theory and Problems of Data Processing :Schaum's* Outline Series, (McGraw Hill, New York.

Websites / e – Learning Resources
1. .https://dspace.vnbrims.org:13000/jspui/bitstream/123456789/4679/1/The%20SAGE%20Handbook%20of%20Social%20Research%20Methods.pdf
2. https://www.google.co.in/books/edition/Business_and_Economics_Statistics_with_C/gjKIwwEACAAJ?hl=en
3. https://www.google.co.in/books/edition/Computer_Skills_for_Economics/sjYavgAACAAJ?hl=en

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	3	2	1	3	2	1	1	1	1	3
CO2	3	3	3	1	3	3	3	1	3	3
CO3	3	3	3	1	3	3	3	1	2	3
CO4	3	1	3	1	3	3	2	1	3	3
CO5	3	3	3	3	3	3	3	1	3	3
Average	3	2.4	2.6	1.8	2.8	2.6	2.4	1	2.4	3

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC4304	Human Development	DSE	5	3

The aim of this course enables students to acquaint human growth and development is planned to acquaint with developmental concepts in psychology, and also investigating these processes in relation to biological, psychological, socio economic and cultural factors.

Course Outcomes:

At the end of the course, students will be able to

CO1: explain and measure the human development index.

CO2: describes the relationship between economic growth and human development.

CO3: discuss gender and governance perspectives of human development.

CO4: evaluate the impact holistic approach to human development.

CO5: analysis the new dimensions of human security - human rights human development.

Unit I: Introduction to Human Development (15 Hours)

Concept of Human Development - Defining Human Development – Measuring Human Development – HDI - Human Poverty Index-Gender Development Index(GDI) Gender Empowerment Measure (GEM) - Changes in and Implications of HDI and GDI Across the Countries - Need for and Significance of Separate Study of Human Development - Nature and Scope and Major Concerns of Human Development as a Branch of Economics.

Unit II: Economic Growth and Human Development (15 Hours)

Relationship between Economic Growth and Human Development - Sustained Human Development - Disrupted Human Development - Missed Opportunities for Human Development - Efficiency in Human Development – Financing Human Development –Growth as a Means to Human Development - Human Capabilities Approach to Development.

Unit III: Gender and Governance Perspectives of Human Development (15 Hours)

Gender Disparities in Human Development- Valuing Women's Work Towards Gender Equality – Feminization of Poverty - Democratic Governance for Human Development - Deepening Democracy for Human Development

Unit IV: Holistic approach to human development (15 Hours)

Psychological bases: Intelligence – types of intelligence emotional behavior and adaptations Personality: Features, types, measures to personality development and social responsibility and accountability – Disability: types, causes and promotional measures to partnership in development - Disability Act 201

Unit V: Human Development in the New Millennium (15 Hours)

New Dimensions of Human Security - Human Rights and Human Development – Interlinks The Struggles for Human Freedoms - Promoting Rights in Human Development -The Millennium Development Goals: Concept and Goals - Priority Challenges in Meeting the Goals-Achieving Goals Relating to Hunger, Education, Health, Water Supply and Sanitation-Public Policies to Ensure Environmental Sustainability – Community Engagement-Sustainable Development Goa lsand Human Development– Challenges Ahead.

Learning Resources

Text Books

1. Gurinder Jit Singh Bhullar, (2013), *Human development and Economic growth – A Global Perceptive,* New Century Publications, New Delhi.
2. Richard M. Lerner, (1997), *Concepts and theories of Human Development*, Lawrence Erlbaum Associates Publishers, Mahwah, New Jersey.
3. Bornstein and Jerome S. Bruner, (1989), *Interaction in Human Development*, New York University Publishers, New Jersey

References

1. Hurlock, E.B, (2007), *Developmental Psychology: A life – span approach-* New Delhi: Tata McGraw Hill, USA.

2. Nussabaum Martha Cand Sin, Amartya, (1996), The Quality of Life, Clarendon Press, Oxford
3. Haq, Mahbub,Ul,(1995), *Reflections on Human Development*, OUP, New York.
4. U*nited Nations Development Programme, Human Development Reports*, (1990), Oxford University Press, Oxford.
5. Sen,Amartya.K, (1985), *Commodities and Capabilities*, Amsterdam, North-Holland.

Websites/ e- Learning Resources
1. https://hdr.undp.org/data-center/human-development-index#/indicies/HDI
2. https://ourworldindata.org/human-development-index
3. https://www.worldbank.org/en/about/unit/human-development

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	3	2	3	3	3	3	1	2	2	3
CO2	3	1	3	3	2	3	2	2	2	3
CO3	3	2	1	2	2	1	1	2	2	3
CO4	3	3	3	2	2	3	2	1	2	3
CO5	3	2	3	2	2	3	1	1	2	3
Average	3	2	2.6	2.4	2.2	2.6	1.4	1.6	2	3

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC4306	Economics of Climate Change	GE	4	3

This course tries to analyse climate change from economic perspective. The problem is characterised as one of regulating a global stock externality in an inter temporal setting and in the presence of uncertainty and irreversibility.

Course Outcomes

At the end of the course, students will be able to

CO1: explore the impacts of climate change on agriculture, sea levels, health, and weather.

CO2: explain the stock pollutants, discounting, and making decisions under risk uncertainty.

CO3: analyses the integrated assessment of climate changes.

CO4: measure adaptation costs and explore financing issues.

CO5: estimate the climate change negotiations and equity.

Unit I: Introduction (12 Hours)

Science of climate change; global and regional climate predictions; uncertainty in science; physical impacts of climate change – agriculture, sea level rise, health, extreme events; policy debate.

Unit II: Climate Change Policy - Mitigation (12 Hours)

Efficiency, public goods, externalities; environmental policy instruments – emissions trading, carbon tax, emission trading versus tax; stock pollutants and discounting; decisions under risk and uncertainty;

Unit III: Integrated Assessment (12 Hours)

Costs and benefits of greenhouse gas mitigation; integrated assessment models; simulation exercises based on DICE model and its variants; sensitivity and uncertainty analysis; Stern review.

Unit IV: Climate Change Policy – Adaptation (12 Hours)

Climate change impact assessment – applications for agriculture, sea level rise and health; vulnerability assessment; economics of adaptation; measurement of adaptation cost; issues in financing adaptation.

Unit V: Climate Change Negotiations and Equity (12 Hours)

Criteria for distribution of emission reduction burden; distribution criteria for adaptation fund; inter and intra-generational equity issues; discounting in climate change context

Text Books

1. Perman, R., Ma. Y., Common, M., Maddison, D., Mcgilvray, J., (2011) *Natural Resource and Environmental Economics,* Pearson Education Limited London.
2. Stern, N., (2006), Intergovernmental Panel on Climate Change – Fifth Assessment Report, *The Economics of Climate Change* – The Stern Review Press, Cambridge University.

References

1. Richard S. J**,** (2023), *Climate Economics: Economic Analysis of Climate, Climate Change and Climate Policy,* Edward Elgar Publishing UK.
2. Armon Rezai, Graciela Chichilnisky, (2020), *Handbook on the Economics of Climate Change,* Edward Elgar Publishing Limited UK.
3. Ackerman, F. and E. Stanton (2013): *Climate Economics*: State of the Art. Stockholm Environment Institute.
4. Acemoglu, P. Aghion, Leonardo Bursztyn, D Hemous. (2012). "*The environment and directed technical change*," American Economic Review.
5. Nordhaus W.: (2008) A *Question of Balance*. Yale University Press. Connecticut.

Website / e – Learning Resources:

1. https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&u act=8&ved=2ahUKEwjc
2. https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&u act=8&ved=2ahUKEwjc-
3. https://www.bu.edu/eci/files/2019/06/The_Economics_of_Global_Climate_Change.p df

CO – PO MAPPING

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	2	3	3	3	2	2	2	3	2	2
CO 2	3	3	2	2	3	2	-	2	2	2
CO 3	3	3	2	2	3	3	1	3	2	1
CO 4	3	3	2	2	3	2	2	2	1	2
CO 5	3	2	2	2	3	2	1	2	2	2
Average	2.8	2.8	2.2	2.2	2.8	2.2	1.5	2.4	1.8	1.8

High– 3   **Medium–2**   **Low–1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC4308	Economics of Social Issues	GE	4	3

This course provides an insight to the economic theory in the design and implementation of public policy related to the social sectors. It finds its roots in social economics, health, education and the problem of discriminations in the society.

Course Outcomes

At the end of the course, students will be able to

CO1: specific the social economics and role of the government in creating equality in human societies.

CO2: explain the concept of welfare economics with specific reference to healthcare.

CO3: discuss the importance of education in creating human capital; private and social demand for education.

CO4: explain the various sources of social discrimination, causes and consequences of the same.

CO5: measure and illustrate the several components of human development index and the importance of these indices on development of the social sector

Unit I: Introduction – Social Economics (12hours)

Introduction of Social Economics: Definition – Equality in Human Societies – Role of government – Social security – Subsidies – Social banking – Refugees, Slavery and Beggary - Principles of Social Doctrines: Marx, Pope and Gandhi.

Unit II: Economics of Health (12hours)

Concept of Welfare Economics – Health dimensions – Determinants of Health - Demand and Supply of Health care – Financing of healthcare - Concept of human life value – Inequalities in health – Healthcare constraints.

Unit III: Economics of Education (12hours)

Education as an instrument of economic growth – Concept of human capital – components of human capital – Private and Social demand for education – Educational planning and economic growth – Manpower requirements approach – Human resource mobilization and utilization.

Unit IV: Social Discrimination (12hours)

Sources of Social Discrimination – Class, Caste, Religion, Race and language – Monopoly power - Consumerism – Provision of information – Economic crimes and their prevention – Violation of Human Rights – Terrorism: Causes and consequences – Need to control terrorism.

Unit V: Human Development Index (12hours)

Indicators – Life expectancy, Per Capita income and Education - Index – HDI Reports, UNDP - Dimensions - Poverty – Inequality – Gender.

Text Books

1. SeetaPrabhu, K. (2012), *Economic Reform and Social Sector Development*, Sage Publications, New Delhi
2. Dreze, Jean and Amartya Sen,(1999), *Hunger and Public Action*, Clarendon Press, London.

References

1. Sarah Smith, Julian Le Grand, (2017), *The Economics of Social Problems,* Carol Propper, Macmillan UK.
2. Julian Le Grand, Ray V F Robinson, (2016), *Economics of Social Problems,* Palgrave Macmillan UK.
3. Douglass C. North and Roger Leroy Miller, (2001), *The Economics of Public Issues*, Harper & Row Press, New York.
4. Baumol, W J, & Oates, W E, (2000), *Theory of Economical Policy,* Cambridge University Press.

5. Culyer, A.J., (1993), *The Economics of Social Policy*, Martin Robertson and Co. Ltd., London.

Websites/e - Learning resources
1. https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKEwjI4KeSh
2. https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&cad=rja&uact=8&ved=2ahUKEwjI4KeSh-
3. https://link.springer.com/content/pdf/bfm:978-1-349-15632-0/1.pdf

CO – PO MAPPING

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	2	3	3	3	2	2	2	2	2	2
CO 2	3	3	2	2	3	2	-	3	1	1
CO 3	3	3	2	2	3	3	2	2	2	1
CO 4	3	3	2	2	3	2	2	2	2	2
CO 5	3	2	2	2	3	2	3	2	2	2
Average	2.8	2.8	2.2	2.2	2.8	2.2	1.8	2.2	1.8	1.6

High– 3   **Medium–2**   **Low–1**

Course Code	Name of the Course	Category	Hours/wk	Credits
24PEC5501	Advanced Macroeconomics	Core	6	5

This course on macroeconomics intends to make the students understand the working of the economy as a whole, integrating the different markets. This course also gives the Classical and Keynesian perspectives on the economic factors affecting an economy's general equilibrium.

Course Outcomes

At the end of the course, the students will be able to

CO1: explain the concepts of general equilibrium in the economy and its models and approaches.

CO2: examine how rational expectations affect macroeconomic variables, income models, and different approaches to business cycles.

CO3: identify the functions of the major propositions of new Keynesian macro economics.

CO4: analyse the open economy model in post Keynesian era.

CO5: measure the fiscal and monetary policy on the economy.

Unit I: Classical, Keynesian and Post Keynesian Macroeconomics   (18 Hours)

Classical Theory of Output and Employment - Full employment equilibrium – AD - AS Model- Keynesian Theory of Output and Employment - Under employment equilibrium - Effective Demand - Hicks Hansen IS – LM- BP Model.

Unit II: The New Classical Macroeconomics   (18 Hours)

Assumptions of Rational Expectation Hypothesis - Policy Ineffectiveness Theorem - Aggregate supply hypothesis - Policy implications of new classical Approach - Source of Productivity shocks in Real Business Cycle Theory - Stabilisation Policy and Unemployment - Role of money in Real Business Cycle Theory'- Policy implications of real business cycle theory – DAD - DAS Model.

Unit III: New Keynesian Macroeconomics   (18 Hours)

Core propositions of new Keynesian macroeconomics - Wage and Price Rigidities - New Keynesian business cycle theory - Policy implications of new Keynesian macroeconomics

Unit IV: Open Economy Macroeconomics   (18 Hours)

Openness in goods in financial market - output interest rate and exchange rate - exchange rate regimes - exchange rate and balance of payments – Mundell - Fleming Model.

Unit 5: Macroeconomic Policies   (18Hours)

Theory of policy - Tinbergen's Approach - Fiscal Policy - Monetary Policy - Optional Policy Mix - Crowding out effect - Bond Financed and Tax Financed Government Expenditure - Rules Vs Discretion - Government Budget and Budget Deficit.

Learning Resources

Text Books

1. Ahuja, H.L., (2019) *Macro Economics Theory*, , S. Chand New Delhi.
2. Rana K.C.and K.N. Verma, (2014). *Macro Economics Analysis*, Vishal Publishing Company, New Delhi.
3. Dornbusch, Rudiger, Stanley Fischer, and Richard Startz (2000). *Macroeconomics,* Tata McGraw-Hill Publishing Company, New Delhi.

Reference Books

1. Filipe, R., Campante, Federico Sturzenegger, and Andrés Velasco, (2021), *Advanced Macroeconomics*, LSE Press.UK.
2. Saket Kushwaha, (2021) *Advanced Macro Economics*, Akinik publications, New Delhi.
3. David Romer., (2019), *Advanced Macroeconomics*, McGraw-Hill International New York.
4. Roger E.A. Farmer (2002), *Macro Economics*, Thompson Asia Private Limited., Singapore.
5. Levacic, R. (1982). *Macroeconomics: An Introduction to Keynesian-neoclassical controversies*. Routledge, USA.

Websites / e-Learning Resources
1. https://www.econlib.org/library/Enc/bios/Keynes.html
2. https://www.postkeynesian.net/post-keynesian-economics/
3. https://www.bu.edu/econ/files/2014/08/DLS1.pdf

CO – PSO MAPPING

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	3	3	3	3	3	2	1	2	2
CO 2	3	2	2	2	2	3	2	2	2	2
CO 3	3	2	2	2	3	3	2	3	3	3
CO 4	3	2	2	2	2	3	2	2	2	3
CO 5	3	2	3	2	3	3	2	3	2	3
Average	3	2.2	2.4	2.2	2.6	3	2	2.2	2.2	2.6

High– 3 **Medium–2** **Low–1**

Course Code	Name of the Course	Category	Hours/wk	Credits
24PEC5503	Public Economics	Core	6	5

This course covers several topics in Public Economics at an advanced level. The course contents draw upon the recent theoretical and empirical research on the issues covered. The focus of the course is on the following areas: Taxes, Land Markets, Procurement of Public Goods, and Public vs Private organizations, public expenditure, fiscal policy, Financial Administration.

Course Outcomes

At the end of the course, students will be able to

CO1: discover the role of public finance, differences between types of goods, and market failures.

CO2: explain theories of public expenditure.

CO3: explore the principles of taxation and sources of public debt.

CO4: examine the instruments of fiscal policy.

CO5: analyse the fiscal federalism and finance commission.

Unit I: Introduction   (18 Hours)

Introduction role of public finance - Major Fiscal functions - Private and Public goods – Mixed goods – Merit goods - Social goods - Market failure Public goods and Externalities

Unit II: Theories of Public Expenditure   (18 Hours)

Public Expenditure Theories of Public Expenditure – Musgrave – Wagner - Peacock Wiseman – Growth of Public Expenditure – Canons and Evaluation of Public Expenditure

Unit III: Taxation   (18 Hours)

Taxation and Public Debt Direct and Indirect taxation – Cannons and Principles of Taxation – Theory of optimal taxation – modern theory of incidence - Classification and Sources of Public Debt – Burden of Public Debt – Principles of public debt – Methods of repayment of public debt – Compensatory aspects of public debt policy.

Unit IV: Fiscal Policy   (18 Hours)

Fiscal Policy and Fiscal Federalism Objectives and Instruments of Fiscal policy – Compensatory Fiscal policy – Fiscal policy for Economic stability and growth – Effectiveness of fiscal policy - Fiscal federalism – Role of finance commission – Principles – Recommendations of 14th Finance Commission and Terms of Reference of the 15th Finance Commission – Transfer of resources from Union and States and States to Local Bodies.

Unit V: Financial Administration   (18 Hours)

Indian Public Finance - Financial Autonomy in India – Tax Reform proposals of Kelkar Committee Tax structure and Working of Fiscal federalism in India – Resource transfer from union to state of Tamil Nadu – VAT – Merits and Demerits - GST design, implementation and impact - Fiscal consolidation in India since 2001-2002 – Fiscal responsibilities of central and state- FRBM Act 2003 - Central and State government Budgets – issues of fiscal deficit - Fiscal policy and Economic downturn : Fiscal correction versus additional Stimulus.

Learning Resources

Text Books

1. Tyagi B.P., (2014), *Public Finance*, Jai Prakash Nath & Company, Uttar Pradesh.
2. Amerash Bagchi (2005), *Readings in Public Finance*, Oxford University Press, New Delhi.

References

1. Burkhard Heer (2019), *Public Economics: The Macroeconomic Perspective*, Springer International Publishing, New York.

2. June A. Sekera, (2016), *The Public Economy in Crisis,* Springer International Publishing, New York.
3. Peter Abelson (2012), *Public Economics: Principles and Practice,* McGraw-Hill, New York.
4. Singh, S. K., (2008), Public *Finance in Theory & Practice*, S. Chand Limited, New Delhi.
5. Rao, M. Govida and Nirvikar Singh, (2005), *The Political Economy of Federalism in India*, Oxford University Press, New Delhi.

Websites / e - Learning Resources
1. https://www.india.gov.in/my-government/documents/policy
2. http://www.niti.gov.in
3. https://www.indiabudeget.gov.in

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO 10
CO 1	3	3	-	2	2	1	-	1	2	2
CO 2	3	2	3	2	2	3	2	-	2	3
CO 3	3	3	3	-	2	1	3	3	2	3
CO 4	1	3	2	-	-	1	1	-	2	-
CO 5	1	3	3	2	2	3	3	3	3	3
Average	2.5	2.8	2.8	2	2	1.8	2.3	2.3	2.5	2.8

High– 3　　　　　　　　**Medium–2**　　　　　　　　**Low–1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC5505	Research Methodology	Core	6	5

This course enables learners to develop a skill set that helps them to plan, design and prepare a research project. The course is based on enhancing the research acumen of learners as it incorporates theory and techniques required in research process.

Course Outcomes

At the end of the course, students will be able to

CO1: recognise the basic concepts in research and explain means of data collection.

CO2: explain and distinguish various sources of primary and secondary data and how to apply it in data collection.

CO3: discuss the functions of presenting data in different methods.

CO4: build up the statistical inference and to explain the critical analysis.

CO5: evaluate and apply the new models for the data.

Unit I: Research in Economics (18 Hours)

Research Methods in Economics Nature of Social Science Research – Research Methods in Social Science – Formulating the problem - Types and Sources of Hypothesis – Characteristics of a Good hypothesis - Components and types of research design – Collection of data – sources and methods - Presentation of results – Format of a Report.

Unit II: Data Collection (18 Hours)

Sampling and Data collection Sampling; Need, types, Probability sampling, random, systematic, stratified, multistage or cluster sampling, Non Probability sampling; Purposive Judgment, quota and snowball sampling- Data collection; Primary and Secondary data; NSS and censes data Methods of data collection- Tools of data collection; schedule and questionnaire.

Unit III: Research Design (18 Hours)

Data Processing and Presentation Processing and analysis of data: Editing, coding and tabulation; use of computers in social science research - Diagrammatic and graphic representation of data - Interpretation of results and Report writing – Preparation of Project Proposals.

Unit IV: Data Analysis – I (18 Hours)

Statistical Inferences Census Versus sampling -Random and Non-Random sampling Techniques Estimation – Point and interval estimation – Statistics and Parameter – Standard Error – Confidence interval - Null and Alternative hypothesis – Type I Error and Type II Error, Level of Significance – Critical region – Steps in Testing of Hypothesis.

Unit V: Data Analysis – II (18 Hours)

Large and small Sample Tests Properties and uses of Normal Distribution – Standard normal 'Z' Statistic Z - Test of Significance of proportions, means and Correlation - 't' Test for sample mean and Equality of mean – Paired 't' Test - Chi-Square Test for Association of Attributes.

Learning Resources

Text Books

1. Kothari, C.R, (2002*), Research Methodology*, Vikas Publishing House, New Delhi.
2. Goode W. J and Hatt, (1952), *Methods in Social Research*, Mcgraw Hill Book Co, Tokyo.

References

1. Ranjit Kumar (2018), *Research Methodology: A Step-by-Step Guide for Beginners*, SAGE Publications, India.
2. Panneerselvam, R., (2014), *Research Methodology*, PHI Learning Publications, New Delhi.
3. Bryman, Alan,(2008), *Social Research Methods*, Oxford University Press,USA.

4. Patton, M.Q, (2002), *Qualitative Research and Evaluation Methods*, Sage Publications, India.
5. Young, Pauline V, (1977) *Scientific Social Surveys and Research*, Prentice Hall of India.

Websites / e-Learning Resources
1. www.socialresearchmethods.net
2. www.ualberta.ca
3. http://finmin.nic.in

CO – PSO MAPPING

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	3	3	3	3	1	3	3	2	3
CO 2	3	3	3	2	3	2	3	3	3	3
CO 3	3	2	2	2	3	3	3	3	2	3
CO 4	3	2	2	1	3	3	3	3	3	3
CO 5	3	2	3	1	3	3	3	3	2	3
Average	3	2.4	2.6	2.3	3	4	3	3	2.4	3

High– 3   **Medium–2**   **Low–1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC5401	Econometric Methods	Core	6	4

This course provides the knowledge of Econometrics and its use for Economists and social scientists, how economic theories are used to test empirical data.

Course Outcomes

At the end of the course, students will be able to

CO1: examine the meaning and applicability of dummy variables.

CO2: estimate the autoregressive model and the role of lags in dynamic econometric models.

CO3: identify the dynamic econometric model.

CO4: gain in-depth knowledge in simultaneous equation models.

CO5: analyze the stochastic process and cointegration model.

Unit I: Basic Regression (18 Hours)

Analysis nature and scope of econometrics – simple regression model: specification, OLS method, assumptions of CLRM and Gauss Markov theorem, hypothesis testing and goodness of fit – extensions of simple regression model: regression through origin, scaling and units of measurement, functional forms of regression model – maximum likelihood estimation.

Unit II: Dummy Variable (18 Hours)

Dummy Variables - Nature of Dummy Variables - ANOVA Models, ANCOVA Models - Dummy Variable alternative to Chow test - Uses of Dummy Variables Seasonal Analysis - Piecewise Linear Regression, Qualitative response Regression Model - Linear Probability Model, Logit Model, Probit Model, Tobit Model.

Unit III: Dynamic Econometric Model (18 Hours)

Dynamic Econometric Model: Autoregressive model and Distributed lag model – Estimation of Distributed Lag Models, The Koyck approach to Distributed - Lag models - Adaptive Expectations Model, Partial Adjustment Model - Estimation of Autoregressive Model - Almon approach to Distributed - Lag Models.

Unit IV: Simultaneous Equation Model (18 Hours)

Simultaneous Equation Model-Simultaneous equation bias - Identification Problem - Rules for Identification - Test of Simultaneity - Test of Exogeneity - Simultaneous Equation Methods - Recursive models and ordinary least squares - Methods of Indirect Least squares -Method of Two - Stage least squares – Generalized least squares.

Unit V: Time Series Econometrics (18 Hours)

Introduction to Time Series Econometrics: Stochastic Process - Stationary and Non Stationary stochastic process - Unit root stochastic process- Trend stationary and difference stationary stochastic process - Integrated stochastic process – Properties- Unit root tests – Cointegration Model.

Learning Resources

Text Books

1. Damodar.N.Gujarati & Sangeetha, (2019), *Basic Econometrics,* Tata McGraw-Hill Publishing company Limited, New Delhi.
2. Dhanasekaran, K, (2012), *Econometrics,* Vrinda Publications, New Delhi.

References

1. James Davidson, (2018), *An Introduction to Econometric Theory*, Wiley, New York.
2. Thomas B. Fomby, R. Carter Hill, Stanley R. Johnson (2012), *Advanced Econometric Methods*, Springer, New York.
3. Gujarathi, D.N, (2005), *Text Book of Econometrics* McGraw-Hill, New Delhi.
4. Kalirajan, K., (1995, *Applied Econometrics* Oxford and IBH, New Delhi.

5. Suresh, J. Ghosh, (1994), *Econometric Theory and Applications,* Prentice Hall of India, New Delhi.

Websites / e - Learning Resources
1. https://learneconometricsfast.com
2. https://inomics.com.
3. https://economicsnetwork.ac.uk.

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	3	2	3	3	3	3	3	1	2	3
CO2	3	1	3	3	3	3	3	1	3	3
CO3	3	1	3	3	3	3	1	2	3	3
CO4	3	1	3	3	2	3	3	2	2	3
CO5	3	3	3	3	3	3	3	3	2	3
Average	3	2.3	3	3	3	3	2.8	2.3	2.4	3

High– 3　　　　　　　**Medium–2**　　　　　　　**Low–1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC5403	Health Economics	DSE	6	4

The aim of this course is to equip students on the importance of health in Economic Development and also this course enables the students to understand and evaluate the health status in India.

Course Outcomes

At the end of the course, students will be able to

CO1: assess the importance of health in economic development.

CO2: classify various health indicators.

CO3: compare the importance of public and private health care systems.

CO4: evaluate the various health insurance schemes.

CO5: analyse the rural and urban health scenario.

Unit I: Introduction to Health Economics (15 Hours)

Health and Economic Development – Determinants of Health- Economic Dimensions of Healthcare –Healthcare Models- Beveridge Model, Bismarck Model and Out-of-pocket Model – Demand for Healthcare – Health Care Accessibility– Grossman Model– Supply of Healthcare – Health Care Delivery System- World Health Organization- Importance – Alma Ata Declaration.

Unit II: Health Indicators and Evaluation (15 Hours)

Health Indicators – Infant Mortality Rate– Maternal Mortality Rate – Child Mortality Rate) – Morbidity Rate – Global Burden of Disease-Communicable and Non Communicable Diseases-Lifestyle Disease-Disability Adjusted Life Years (DALY) – Quality Adjusted Life Years (QALY) – Economic evaluation of health care: Cost Benefit Analysis – Cost Effective Analysis

Unit III: Health Care Management (15 Hours)

Health care Financing - Health Management – Prevention – Curative– Palliative – Public Healthcare System- Private Healthcare System- Privatization and Health Care- Health Education- Health Infrastructure- Pre and Post COVID Health Sector Reforms.

Unit IV: Health Insurance (15 Hours)

Health Insurance: Definition and Types – Health Insurance and Market Failure- Information Asymmetries- Government Health Insurance – Need – Types – Schemes -Private Health Insurance.

Unit V: Health Scenario in India (15 Hours)

Health in India- Ministry of AYUSH – National Health Mission (NHM) – Rural Healthcare system –National Rural Health Mission (NRHM) – Accredited Social Health Activist (ASHA) Workers –Urban Healthcare system – NUHM (National Urban Health Mission) – National Family Health Survey – Alternative sources of Medicine in India – Medical Tourism – Ministry of AYUSH – Role of World Health Organization (WHO) in India.

Learning Resources

Text Books

1. Charles E Phelps (2017), *Health Economics*, Sixth Edition Routledge. USA.
2. Anand & Shikha Goel N.K. (2006), *Health Economics*, AITBS Publishers India.

References
1. KesavanSreekantan Nair (2022), *Health Economics and Financing*, New Century Publications. New Delhi.
2. Brijesh C. Purohit(2020), *Economics of Public And Private Healthcare And Health Insurance In India,* Sage Publications Private Limited, India.
3. Jan Abel Olsen (2017), *Principles in Health Economics and Policy*, Oxford University.
4. Jery D, Josephin Dr. Jeyasingh, Dr. D. Solomon Raj (2016), *Health Economics*, Creative Crows, USA.
5. Lorna Guinness, Virginia Wiseman, (2011), *Introduction to Health Economics,* McGraw-Hill Education, UK.

Websites / e- learning Resources
1. https:// www.who.int/
2. https:// mohfw.gov.in/
3. https:// www.ayush.gov.in/

CO – PSO MAPPING

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	3	1	1	-	2	-	-	2	-
CO 2	3	2	3	2	1	2	2	-	2	-
CO 3	3	2	3	3	2	3	-	3	2	3
CO 4	3	3	2	2	2	3	3	2	3	3
CO 5	3	3	-	3	2	3	2	3	2	3
Average	3	3	2.8	2.2	1.8	2.6	2.3	2.7	2.2	3

High– 3   **Medium–2**   **Low–1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC5405	Modern Economic Thought	DSE	6	4

The aim of this course is trace the ideas of Modern Economists and also course enables the students able to the contribution of the Economists.

Course Outcomes:

At the end of the course, the students will be able to

CO1: assess the classical and modern economic thoughts and role of entrepreneurs.

CO2: elucidate the capital formation and issues of unemployment.

CO3: analyse the quantity theory of money and business cycles in economics.

CO4: compare the ideas of post and pre Keynesian economic thoughts.

CO 5: evaluate the economic ideas like role of technological progress.

Unit I: Classical Economic Thought (18 Hours)

Economic ideas of Irving Fisher – The Quantity theory of Money - Theory of Interest- Joseph Alois Schumpeter - Method of Study – Deductive Method – Inductive Method - Theory of Economic Development - Role of Entrepreneur – Innovation-Business Cycles – Capitalism and Socialism . J.K. Galbraith – The objective of Economic Progress - Concept of Countervailing Power.

Unit II: Neo Classical Economic Thought (18 Hours)

Ragnar Nurske – Foreign Resources – Capital Formation – Disguised Unemployment**,** Mrs - Joan Robinson – Imperfect Competition – F.Y .Edgeworth – Mathematical Economic Analysis – Three Dimensional Utility.

Unit III: Keynesian Economic Thought (18 Hours) Lord Lionel Robbins – Definition of Economics - Causes of Depression - Milton Friedman – Quantity Theory of Money – Permanent Income Hypothesis, Friedman and Savage Hypothesis, Paul A.Samuelson – Impact of Keynesian Economics – Revealed Preference Theory – Business Cycles – Social Welfare Function - Samuelson's Utility Possibility Approach.

Unit IV: Post Keynesian Economic Thoughts (18 Hours)

Ideas of Modern Indian Economists - R.K.Mukerjee - Institutional theory of Economics - Regional Economics - Ecological Theory of Population - Planning in India, J.K.Mehta – Static and Dynamic Economics - Economics of Welfare - Economics of Growth and Development - Economics of Fast.

Unit V: Indian Economists (18 Hours)

C.N.Vakil – Planning - Wage - Goods Model - Role of Technological Progress - Poverty - Deficit Financing and Public Expenditure, V.K.R.V.Rao - Economic Activities - Institutional Development - Deficit Financing - Fiscal Policy - Human Factor in Economic Growth - Amartya Kumar Sen – Poverty and Famine, Poverty and Inequality - Concept of Capability - Entitlement -Choice of Techniques.

Learning Resources

Text Books

1. Sankaran S. (2006), *A History of Economic Thought*, Margham Publications, New Delhi.
2. Kulshrestha U.C. (1994), *History of Economic Thought*, Lakshmi Narain Agarwal, India.

References

1. Allan Garfield Gruchy (2022), *Modern Economic Thought*, Repro India Limited.
2. Pankaj Srivastava (2018), *Economic Thinkers*, DND Publications, Jaipur.
3. Jhingan, M.Girija and L.Sasikala (2011), *History of Economic Thought*, Vrindha Publications, New Delhi.

4. Jürgen Backhaus,(2011), *Handbook of the History of Economic Thought, Springer,* New York.
5. Eric Roll (1956) *A History of Economic Thought*, Prentice Hall, Inc, U.S.A,

Websites / e-Learning Resources

1. https://ebrary.net/112930/history/a_brief_history_of_economic_thought
2. https://www.exploring-economics.org
3. https://www.econlib.org

CO – PSO MAPPING

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	3	3	2	3	3	2	2	2	2
CO 2	3	3	2	3	3	3	3	2	-	3
CO 3	3	3	3	3	3	3	2	2	3	3
CO 4	3	3	2	3	3	3	3	2	2	2
CO 5	3	3	3	3	3	3	3	3	2	3
Average	3	3	2.6	2.8	3	3	2.6	2.2	2.3	2.6

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/Wk	Credits
24PEC5233	Internship	IS	-	2

This course provides the student with an opportunity to gain knowledge and skills from a planned work experience in the student's chosen career field. In addition to meeting Core Learning Out comes, jointly developed. Specific Learning Outcomes are selected and evaluated by the Faculty Internship Advisor, Worksite Supervisor, and the student. Internship placements are directly related to the student's program of study and provide learning experiences not available in the classroom setting. Internships provide entry-level, career-related experience, and work place competencies that employer's value when hiring new employees. Internships may also be used as an opportunity to explore career fields. Students must meet with the Internship & Apprenticeship Coordinator prior to registering. The purpose of the Internship Program is to provide each student practical experience in a standard work environment. The Internship & Apprenticeship Coordinator and Faculty Internship Advisor will assist students in making the job a valuable and productive experience. Success in this job will help ensure development of skills necessary for a lasting and rewarding career in the future.

Course Outcomes

At end of the internship, students will be able to

CO1: apply appropriate workplace behaviours in a professional setting.

CO2: demonstrate content knowledge appropriate to job assignment.

CO3: exhibit evidence of increased content knowledge gained through practical experience.

CO4: explain how the internship placement site fits into their broader career field.

CO5: evaluate the internship experience in terms of their personal, educational and career needs.

CO – PO MAPPING

CO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	3	2	3	2	1	3	1	3	3
CO2	3	3	3	3	1	2	3	2	3	2
CO3	2	3	2	3	1	2	2	2	3	2
CO4	3	3	3	3	2	2	2	1	3	3
CO5	3	3	3	3	3	1	3	2	2	3
Average	2.8	3	2.6	3	1.8	1.6	2.6	1.6	2.8	2.6

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC5502	International Economics	Core	6	5

This course is designed to make familiarize students with discussions in the area of international trade and trade policy, reviewing traditional theories of international trade and recent developments in the economic literature based on the new trade theory and on the analysis of FDI and global production chains.

Course Outcomes

At the end of the course, students will be able to

CO1: explain the theories of international trade.

CO2: learn the recent theories in International trade.

CO3: ability to know the concept of balance of payments policies.

CO4: assess the working of MNCs Foreign aid.

CO5: apprehend the working of foreign exchange.

Unit I: Theories of Trade – I (18 Hours)

Pure Theory of International Trade Comparative Cost Theory - Refinements of Comparative Cost Theory Modern Theory of Factor Endowments – Leontief Paradox - Factor price equalization theorem – Factors Intensity Reversal: The Stolper.-.Samuelson Theorem and the Rybezynski Theorem.

Unit II: Theories of Trade – II (18 Hours)

Recent Theories of International Trade Karvi's Theory of Availability – Lindar's Theory of Volume of Trade and demand pattern - Posner's Technological Gap Theory – Vernon's Product Cycle Theory - Kenen's Human capital theory- Intra- Industry Trade – Theory of Imperfect Competition - Strategic Theory – External Economies and International Trade.

Unit III: Balance of Payment (18 Hours)

Balance of Payments Policies BOP Disequilibrium – Adjustment Mechanism: Elasticity Approach, Absorption approach and Monetary Approach - Expenditure changing monetary and fiscal policy – Monetary and Fiscal policies for internal and external balance: The Swan Model and Mundallian Model - Expenditure Switching Policies and Expenditure Reducing Policies – Foreign Trade Multiplier.

Unit IV: Foreign Aid (18 Hours)

Foreign Aid and MNCs. Foreign Aid - Types of Foreign aid – Advantages and Disadvantages – Factors determining foreign aid - Foreign Investment – Foreign Direct investment – Types of FDI – FDI Policy of India- Multinational Corporations – Features of Multinational Corporations - Advantages and Limitations of MNCs – MNCs and International Trade.

Unit V: Foreign Exchange (18 Hours)

Managing Foreign Exchange Risk Foreign exchange risk - Sources of foreign exchange risk – types of exchange rate risk - Transaction risk, Translation risk, and Economic risk Measurement of Exchange Rate Risk – value - at-risk (VAR) model. Methods of managing foreign exchange risk - internal and external techniques - Forward contracts, Money market hedges, Currency futures, Currency Options, Currency swaps.

Learning Resources

Text Books

1. Jhingan, M.L (2016), *International Economics*, Vrindha Publications, New Delhi.
2. Dwivedi, D.N., (2013), *International Economics: Theory And Policy*. Vikas Publishing House ,New Delhi

References

1. Kenneth A. Reinert (2020), *An Introduction to International Economics*, Cambridge University Press.
2. Dominick Salvatore, (2019), *International Economics*, Wiley, New York.
3. Paul Krugman and Maurice, (2013), *International Economics: Theory and Policy* Obstfeld New Delhi.

4. Francis Cherunillam, (2004), *International Economics*, Tata McGraw Hill, New Delhi.
5. Bhagwati, J.N.,(2003), *Free Trade Today*, Oxford University Press, New Delhi.

Websites/ e – Learning Resources
1. https://www.worldbank.org/en/country/eu
2. https://www.imf.org/en/Data
3. https://www.economagic.com/

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO 10
CO 1	3	1	3	1	2	2	2	3	2	3
CO 2	3	1	3	2	2	-	1	1	-	2
CO 3	3	3	3	1	1	2	1	3	2	2
CO 4	3	1	3	3	1	2	2	1	2	1
CO 5	3	3	3	2	2	3	1	3	2	1
Average	3	1.6	3	1.6	1.6	2.3	1.4	2.2	1.6	1.8

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC5504	Development Economics	Core	6	5

Tracing the evolution of theories of economic development and also impart ideas on economic development and economic growth and students able to understand about the index of measuring economic development and its determinants.

Course Outcomes

At the end of the course, the students will be able to

CO1:.explain the concepts of development.

CO2:.elucidate the theories of economic development.

CO3:.assess the concepts related to poverty, inequality, health and education.

CO4: discuss the insights of rural development and agricultural policies.

CO5:.analyse the role of State in fiscal management and policies for market development.

Unit I: Introduction conceptualizing development   (15 Hours)

Introduction Conceptualizing development: (a) GNP) as development indicator (b) Sen's capabilities approach to development: The Human Development Index - The structural characteristics of developing economies- Factors of development : (a) Capital accumulation (b) Labour (c) Natural resources (d) Technological Progress (e) Social institutions cultural values and entrepreneurial ability.

Unit II: **Theories of Development as growth   (15 Hours)**

Theories of Development as growth: (a) Harrod-Domar model (b) Rostow's stages of growth theory (c) Lewis theory (d) balanced and unbalanced growth (e) Neo classical growth theory – Solow Model - Contemporary theory of development: (a) New growth theory: Romer model (b) Underdevelopment as Co-ordination failure (c) Kremer's O-Ring theory of development- Dependency theory-path dependence in development: QWERTY- Geography and development: Krugman's theory.

Unit III: **Poverty, Inequality and Human Capital Measurement   (15 Hours)**

Poverty, Inequality and Human Capital Measurement of inequality and poverty - Inverted – U hypothesis - Cause of inequality - Investing in education and health-the human capital approach Education and Development (a) social and private benefits of education - (b) education, inequality and poverty (c) Women's education and development Health system in development (a) health and productivity (b) financing health system in developing economics (c) Gender perspective in health care.

Unit IV: **Agriculture and Rural Development   (15 Hours)**

Agriculture and Rural Development The role of agriculture in development- Agricultural policy: (a) agricultural taxation (b) pricing policy - Risk aversion and uncertainty in subsistence farming-sharecropping and interlocking factor markets- Rural urban migration – Todaro model –Rural credit markets (a) providers and characteristics (b) theories of informed credit markets: lender's monopoly and default collateral.

Unit V: **Policies for Market Development   (15 Hours)**

Policies for development Market and the state in development:(a) The Washington consensus components and critical evaluation (b) The role of state in development (c) market failure state failure and development - Trade Policy in development : (a) import substitution (b) export promotion - Fiscal policy for development: (a) direct Vs indirect taxes (b) pattern and level of taxation.- Financial system in development: (a) the role of financial system in development (b) role of central banks (c) financial liberalization.

Learning Resources

Text Books

1. Jhingan M.L. Jhingan B K,(2019), *The Economics of Development and Planning*,

Vrinda Publications, New Delhi.
2. Agrawal, A.N.,(2014), *Indian Economy: Problems of Development and Planning,* New Age International Private Limited, India.

References
1. Yoshihisa Hayami, Jujiro & Godo, (2023), *Development Economics*, Oxford University Press.
2. Ahuja, H L., (2016), *Development Economics*, S Chand Publishing, New Delhi.
3. Debraj Ray, (2009), *Development Economics*, Oxford University Press, New Delhi.
4. Michael P. Todaro and Stephen C. Smith, (2004), *Economic Development, Pearson Education*, Singapore.
5. Yujiro Hayami, (2003), *Development Economics*: OxfordUniversity Press, New Delhi.

Websites/ e – Learning Resources
1. http://www.eolss.net/sample-chapters/c04/e6-28b-05.pdf
2. https://pages.nyu.edu/debraj/Courses/GrDev09/Notes/09dnote.pdf
3. https://egyankosh.ac.in/bitstream/123456789/39240/1/Unit-2.pdf

CO – PSO MAPPING

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	2	2	3	2	3	2	2	2	2
CO 2	3	3	3	1	2	2	1	2	2	2
CO 3	3	2	3	1	2	2	2	3	2	1
CO 4	3	2	3	3	1	3	1	2	2	2
CO 5	3	3	3	2	1	2	1	1	1	3
Average	3	2.4	2.8	2	1.6	2.4	1.4	2	1.8	2

High– 3　　　　　　　　**Medium– 2**　　　　　　　　**Low– 1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC5402	Urban Economics	Core	6	4

This course equip with theory and measurement of urban economic growth and development, spatial structure of cities and urbanization. And the course outlines the issues of urban poverty and its impact on urbanization.

Course Outcomes

At the end of the course, the students will be able to

CO1: underline the scope of urban economics and urban economic growth

CO2: describe the process of urbanisation and classification or urban areas

CO3: evaluate the various theories of urban growth and spatial structure

CO4: explain the urban labour market, labour force participation and distribution of workers.

CO5: identify the urban problems and planning process.

Unit I: Introduction (18 Hours)

Definition and Scope of Urban Economics - Sources of Urban Growth – International migration, Trends in growth of urban population in the world - Urban reclassification and physical expansion of urban boundaries – Urbanization and agglomeration economies – industrialization and services sector growth – Urbanization and urban economic growth – Urbanization and globalization.

Unit II: Economics of Urbanization (18 Hours)

The Process of urbanization: Nature and dimensions, factors initiating and perpetuating urbanization process - Characteristics of an economy passing through different stages of urbanization - Classification of urban areas by demographic, geographical and economic criteria - Process of sub-urbanization

Unit III: Theories of Urban Growth and spatial structure (18 Hours)

Christaller's Central Place Theory - The Human Ecological Approach to Urban Growth - Urban Size: Ratchet-Rank Size Rule - Migration and urban economic growth: Harris -Todaro Model – Concepts of City Structure - The Minimization of Costs of Friction Hypothesis - Location Equilibrium of an Urban Firm - The Concentric Zone Hypothesis - Urban Residential Land Use Models: Alonso, Muth, Siegel, Park Burgess.

Unit IV: Urbanization and Labour Market (18 Hours)

Urbanisation and Labour Market - Pull and Push Factors for Urbanisation in India - High Wages and Improved Infrastructure - Employment Opportunities and Educational facilities - Growth of formal and Informal economic activities - Labour Force Participation and Distribution of Workers

Unit V: Urban Problems and Urban Planning (18 Hours)

Over Population and congestion - Urban housing problem - Urban environment: Air, Water and Noise Pollution - Urban poverty and inequality - Urban Infrastructure: transport Water Supply, Sanitation and Solid waste management - Need for Urban Planning: Objectives and Techniques - Emerging Planning Process - Comprehensive Development Plan – Master Plan – Jawaharlal Nehru National Urban Renewal Mission - Smart Cities

Learning Resources

Text books

1. Jan K. Brueckner (2011), *Lectures on Urban Economics*, MIT Press,
2. Shukla, V., (1996) *Urbanization and Economic Growth*, Himalaya Publishers Private Limited, New Delhi.

References

1. Sullivan, O' (2012), *Urban Economics*, McGraw Hill Higher Education Boston.
2. Yorgos Y. Papageorgiou, David Pines (2012), *An Essay on Urban Economic Theory*, Springer USA.

3. Edwin S. Mills.,(1987), *Handbook on Regional and Urban Economics*, Volume 2: Urban Economics. North-Holland.
4. Duranton, G., & Strange, W. C. (1986), *Handbook of regional and urban economics: applied urban economics* (Vol. 3). Elsevier.
5. Robert L Bish and Hugh O Nourse, (1975), *Urban Economics and Policy Analysis*, McGraw Hill Kogakusha Limited, Tokyo.

Websites/ e – Learning Resources

1. https://www.wur.nl/en/research-results/chair-groups/social-sciences/urban-economics-1.htm
2. https://gen.org.nz/product/urban-economics-2/
3. https://www.brookings.edu/articles/the-new-urban-economy-opportunities-and-challenges/

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	3	3	3	2	-	2	1	2	1	3
CO2	3	2	2	1	1	2	3	2	1	2
CO3	3	3	3	1	2	2	1	2	1	2
CO4	3	1	2	2	1	2	2	1	2	3
CO5	3	2	3	2	1	2	2	1	1	2
Average	3	2.2	2.6	1.6	1.2	2	1.8	1.6	1.2	2.4

High– 3   **Medium– 2**   **Low– 1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC5404	Actuarial Economics	DSE	6	4

The course imparts actuarial techniques that are used for insurance purposes. It covers the techniques drawn from statistics, financial mathematics along with the insights of economic theory to equip the learners with the insurance processes.

Course Outcomes

At the end of the course, students will be able to

CO1: enable to differentiate benefits of annuity contracts.

CO2: develop marketable premiums and appropriate annuities.

CO3: predict possible survival chances of human life in chaotic world.

CO4: build up rational expectation models for all contract types.

CO5: factor heterogeneity in life insurance contracts for risk management

Unit I: Life Assurance and Annuity Contracts   (18 Hours)

Pricing of life insurance contracts, equations of value, allowance for investment income, present value random variable, expected present value, variance of the present value random variable for life assurance contracts; life assurance benefits payable immediately on death; claim acceleration approximation; life annuity contracts: immediate annuity; annuity-due; temporary annuity; temporary annuity-due; deferred annuities; deferred annuities-due; and continuous annuities

Unit II: Quantity Theory of Life Contingencies   (18 Hours)

Advance Problems in mathematical theory of life contingencies; force of mortality; laws of mortality; premiums and reserves for insurance and annuities based on a single life- sums and integrals for mean and variance of present value of benefit payments; annuities payable in advance and in arrears; temporary and deferred and whole lifetime annuities; net premiums and reserves-prospective and retrospective reserves; Gross and net premium reserves; profit contracts

Unit III: Joint Life Probabilities   (18 Hours)

Joint life probabilities, annuities and insurances; cash flow dependent upon death or survival of either or both of two lives; competing risks; transition intensities for given dependent probability

Unit IV: Multiple-Decrement Theory and Pension fund Mathematics   (18 Hours)

Multiple decrement theory; pension fund mathematics-techniques of discounting emerging cost, for use in pricing, reserving and assessing profitability for all contract types and for pensions; expected cash flow dependent upon more than one decrement; expected cash flow contingent upon risks other than human risks

Unit V: Principal Forms of Heterogeneity within a Population   (18 Hours)

Variations in mortality and morbidity; main forms of selection-temporary initial selection, time and class selections, spurious and adverse selection, different mortality tables for different lives; risk classification of life insurance, genetic information of risk classification in life insurance, directly and indirectly standardized mortality rates

Learning Resources

Text books

1. Mc Cutchheon, J.J. and Scott, W.F., (1997), *An Introduction to Mathematics of finance.* Scotland.
2. Bowes, N.L., Gerber, H.U., Hickman, J.C, Jones, D.A., and nesbitt, C., J. (1986), *Actuarial Mathematics*, Society of Actuaries, Lthaca, lllins, U.S.A

References

1. Bailey, R., (1999), *Underwriting in Life and Insurance*, LOMA, Atlanta
2. Graves, E.E. and L. Haye, (1994), *McGill's Life Insurance*, The American College, Press, Blyn Mawr, Pennsylvania.

3. Bickelhaupt, D.L., (1992), *General Insurance*, Irwin Inc., Burr Ridge, Ill. Pennsylvania
4. Bhole, L.M., (1990), *The Indian Financial System*, Tata McGraw Hill, New Delhi.
5. Spurgeoin,,E.T., (1972), Life Contingencies. Cambridge University Press.

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	3	2	3	3	1	3	3	2	2	3
CO2	3	2	3	3	2	3	2	3	2	2
CO3	3	3	3	3	3	3	1	3	3	2
CO4	3	2	3	3	3	3	1	3	2	2
CO5	3	1	3	3	2	3	1	2	3	2
Average	**3**	**2**	**3**	**3**	**2.2**	**3**	**1.6**	**2.6**	**2.4**	**2.2**

High– 3 **Medium– 2** **Low– 1**

Course Code	Name of the Course	Category	Hours/wk	Credits
24PEC5406	Small Business Management	DSE	6	4

Students will get better understanding of small business entrepreneurship that includes the concept of Enterprise; Project planning, financial and marketing feasibility and they will also learn the challenges of small business such as Innovation, and Crisis Management and inculcates in students the spirit of enterprise.

Course Outcomes

At the end of the course, students will be able to

CO1: explain the types, role and environment of small business.

CO2: identify business ideas and preparation of a project report.

CO3: analyze marketing aspects of small business enterprises.

CO4: examine the problems of small business and preparing SWOT analysis.

CO5: develop managerial skills in managing growth and transition of small enterprises.

Unit I: Small Enterprise – An Introduction (18 Hours)

Definition – Classification – Environment of Small Business – Role – Risk and Survival Strategy – Entrepreneurship and Small Enterprises – Nurturing Entrepreneurship

Unit II: Project Planning (18 Hours)

Search for a business idea – Environment scanning – concepts of Projects and classification – Project Identification – Formulation – Design and Network Analysis – Project Report – Project Appraisal: Factory Design and Layout – Shop Floor Environment – Forms of Organization – Incentives and Subsides – Finance and Consultancy supports

Unit III: Marketing Assessment (18 Hours)

Definition and Functions of Marketing – Marketing Mix – Marketing Channels – Packaging, Branding, Buying Motive – Marketing Institutions and Assistance – Marketing Research and Marketing Information System – Pricing – Market Segmentation and Marketing Strategies – Export Potential

Unit IV: Challenges of Small Business (18 Hours)

Problems of Small Business – Sickness – Reasons and Remedies – Creativity and Innovation – Opportunities – SWOT analysis – Product and Process Protection – Measures

Unit V: Branding and Crisis Management (18 Hours)

Patents – Trade Marks – Copy Rights – Managing Growth and Transition - Crisis Management – Time Management and Quality Management

Learning Resources

Text Books

1. Vasanth Desai, (2010), *Dynamics of Entrepreneurial Development and Management*, Himalaya Publishing House, New Delhi.
2. Suri, K.B., (2006), *Small-Scale Enterprises in Industrial Development: The Indian Experience*, SAGE publications, New Delhi

References

1. Tim Mazzarol, Sophie Reboud (2019), *Small Business Management - Theory and Practice*, Springer Nature Singapore.
2. Peter J. Buckley, Peter Ender wick, Adam R. Cross, (2018), *International Business*, Prentice Hall, New Delhi
3. David Campbell and Tom Craig, (2011), *Organizations and the Business Environment* Elsevier Science & Technology Books.
4. David, Holt, (2008), *Entrepreneurship*, New Venture Creation, Prentice Hall, New Delhi.
5. Paul, (2006), *Business Environment*, Tata McGraw-Hill, New Delhi.

Websites / e - Learning Resources
1. **https://glginsights.com/articles/how-to-conduct-a-market-assessment/**
2. **https://www.forbes.com/sites/allbusiness/2024/04/30/a-2024-report-reveals-small-business-marketing-challenges/**
3. **https://www.constantcontact.com/blog/small-business-marketing-challenges/**

CO – PSO MAPPING

CO/PSO	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9	PSO10
CO1	3	2	3	2	1	3	3	2	2	2
CO2	3	2	1	2	2	3	2	3	3	3
CO3	3	1	3	2	3	3	3	2	3	1
CO4	3	1	1	2	3	3	3	1	3	3
CO5	3	2	3	2	2	3	1	2	3	2
Average	3	1.6	2.2	2	2.2	3	2.4	2	2.8	2.2

High– 3　　　　　　　　**Medium– 2**　　　　　　　　**Low– 1**

Course Code	Name of the Course	Category	Hours/wk.	Credits
24PEC5507	Project	Core	6	5

This course reveals that the realization of learners' role in nation building and sensitivity to the economic issues that the nation is facing today. Equip with basic tools of economics and statistics to analyze economic issues.

Course Outcomes

At the end of the course, the students will be able to

CO1: develop critical and quantitative thinking skills specific to business and accounting.

CO2: communicate effectively in written, oral and graphical form about specific issues and to formulate well-organized written arguments that state assumptions and hypotheses supported by evidence.

CO3: evaluate economic issues and public policy by using economic models or data analysis while identifying underlying assumptions of the model(s) and limitations

CO4: ability to solve problems that have clear solutions and to address problems that do not have clear answers and explain conditions under which these solutions may be correct.

CO5: analyze the ethical and social justice dimensions of market and policy outcomes

CO – PSO MAPPING

CO/PSO	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6	PSO 7	PSO 8	PSO 9	PSO 10
CO 1	3	3	2	3	3	3	2	1	1	2
CO 2	3	3	2	2	2	3	1	1	1	2
CO 3	3	3	3	3	3	3	2	1	1	3
CO 4	3	3	3	3	2	3	1	1	1	3
CO 5	3	3	3	3	3	3	1	1	1	3
Average	3	3	2.6	2.8	2.6	3	1.4	1	1	2.6

High– 3　　　　　　**Medium– 2**　　　　　　**Low– 1**

Course Code	Course Title	Category	Hrs / Wk	Credit
24PEC5244	Professional Competency Skill	PCS	-	2

This course enables the students to acquire knowledge related to various Economics concepts, Economics Skilling and Economics variables pertaining to Indian Economy. It also helps the students to have reason and think Economics and apply it in real terms.

Course Outcomes

At the end of the course, students will be able to

CO1: create awareness among them regarding the contemporary issues pertaining to various sectors of India

CO2: appear for the exam and for various placement drives.

CO3: face various competitive examinations positively.

CO4: make time management while preparing for the competitive exam.

CO5: placement will be strengthened.

CO-PO Mapping

CO/PO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10
CO 1	3	3	3	3	2	2	3	3	2	3
CO 2	3	2	2	2	2	2	3	2	2	2
CO 3	3	3	3	3	2	3	3	2	2	2
CO 4	3	2	2	2	2	2	2	2	2	3
CO 5	3	2	3	2	2	2	2	2	2	1
Average	3	2.4	2.6	2.4	2	2.2	2.6	2.2	2	2.2

High– 3　　　　　　　　　　**Medium– 2**　　　　　　　　　　**Low– 1**

Course Code	Name of the Course	Category	Hours/Wk	Credits
24PEC422V	Export and Import Procedures	Value Added Course	2	2

This course imparts that a comprehensive understanding of international business is crucial in today's global economic landscape. Executives involved in export marketing face significant challenges due to fierce competition in global markets.

Course Outcomes:

At the end of the course, students will be able to

CO1: outline the overall perspective on the international business environment and economic relations

CO2: describing the analytical skills for identifying export opportunities

CO3: devaluing towards export procedures & documentation.

CO4: revealing knowledge in the area of logistics.

CO5: explaining benefits from exports by understanding foreign trade policy.

Unit I: International Marketing Management, **(6 Hours)**

Marketing of industrial and consumer products, identification of export markets, product development and adaptation, export pricing.

Unit II: India's Foreign Trade & Policy **(6 Hours)**

India's foreign trade policy and its evolution, trends in India's foreign trade, institutional framework for export promotion, export incentives and facilities and concept of EPZ/FTZ

Unit III: International Trade Logistics **(6 Hours)**

Micro-economic aspects of physical distribution with emphasis on international transport systems including legal aspects of transportation by sea, air and multi-modal transport

Unit IV: International Trade Operations & Documentation **(6 Hours)**

Regulatory Framework of Export Import, Export Sales Contract, Methods of Payment, Export-Import Documents

Unit V: Global Business Environment **(6 Hours)**

Forces of Globalization & Patterns of Global Political Economy, Multilateral Framework of international Trade & it's Evolution and Energy Security and the Environmental issues.

Learning Resources

Text Books

1. Madhurima Lall, Sultan Ahmad (2021), *Export Import: Procedure and Documentation,* Sultan Chand & Sons, New Delhi.
2. Manisha Paliwal (2017), *Import Export Procedure*, Nirali Prakashan, Educational Publishers, New Delhi.

References

1. Girish Kumar N. Rana (2017), *Export Import Procedure and Documentation*, Horizon Press, New Delhi.
2. Justin Paul, Rajiv Aserkar (2013), *Export Import Management*, OUP India.
3. Usha Kiran Rai (2010), *Export - Import and Logistics Management,* PHI Learning, New Delhi.
4. Rajiv Kumar Maheshwari, Ekta Rastogi (2009), *Export-import Procedures and Documentation*, New Royal Book Company, India.
5. Aseem Kumar (2005), *Export and Import Management*, Excel Books, UP.

Websites/ e-Learning Resources

1. **https://www.google.co.in/books/edition/Hand_Book_of_Procedures/hbf5kV3wN GgC?hl=en&gbpv=1&bsq=export+and+import+procedure&dq=export+and+im port+procedure&printsec=frontcover**
2. **https://www.google.co.in/books/edition/Importing_Into_the_United_States/HTfB jgEACAAJ?hl=en**
3. **https://www.google.co.in/books/edition/A_Basic_Guide_to_Exporting/Gj-1svKByQ8C?hl=en&gbpv=1&dq=export+and+import+procedure&printsec=fro ntcover**

CO – PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO 1	2	3	3	3	2	2	2	2	2	2
CO 2	3	3	2	2	3	2	1	3	1	1
CO 3	3	3	2	2	3	3	2	2	2	1
CO 4	3	3	2	2	3	2	2	2	2	2
CO 5	3	2	2	2	3	2	2	2	2	2
Average	2.8	2.8	2.2	2.2	2.8	2.2	1.8	2.2	1.8	1.6

High– 3   Medium– 2   Low– 1

Course Code	Name of the Course	Category	Hours/Wk.	Credits
24PEC521V	Economics of Education	Value Added Course	2	2

The course provides some insights into the application of economic theory in the design. It deals with the economics of education with special emphasis on educational planning, manpower balances and human resource development and implementation of public policy related to the management of one of the social sectors i.e., Education.

Course Outcomes:

At the end of the course, students will be able to

CO1: comprehend the dimensions of economics, social benefits and human capital.

CO2: highlight distinguish ideas of demand for economic of education

CO3: apply the economic principles for new organization

CO4: invoke self introspection to evolve a mature policy making

CO5: enrich the personality development and self employment as globalization.

Unit I: Education and Human Capital Formation (6 Hours)

Forms of human capital - human capital and economics growth - measures of human capital - Education as an economic good - private and social benefit of education –contribution of education to economic development

Unit II: Demand for Education (6 Hours)

Education and productivity – private and social demand for education- investment in education – private and social rates of return – limitations of rate of return approach – rate of return and earnings distribution – equity aspects.

Unit III: Supply of Educational Facilities (6 Hours)

Components of educational supply – private and public facilities – pattern of organization and operation of education industry – organization and operation of different limitations of production function analysis.

Unit IV: Financing of Education (6 Hours)

Public and private resources in education and their limitations – rationale behind public involvement in education – forms of public financing – subsidization of education – The New Education Policy

Unit V: Education and Manpower Planning (6 Hours)

Importance of manpower planning – the operation of markets for unskilled and skilled labour – labour market and migration in India – on-the-job training and skill formation

Learning Resources

Text Books

1. Robinson, J E Vaizeyd, (2016), *The Economics of Education*, Palgrave Macmillan UK.
2. Dominic J. Brewer, Patrick J. Mc Ewan, (2010), *Economics of Education*, Elsevier Science, USA.
3. Mark Blaug, (2000), Economics *of Education*, Gregg Revivals, University of Michigan.

References

1. Pandu Ranga Narasimharao, B. Elizabeth Wright, Meghana Joshi, Shashidhara Prasad, (2017), *Handbook of Research on Science Education and University Outreach as a Tool for Regional Development*, IGI Global.
2. Indian Economic Association. Conference (2008), *Economics of Education and Health in India*, Deep & Deep Publications, New Delhi.
3. Belfield, C. R. Henry M. Levin, (2002)*, Education Privatisation : Causes, Consequences and Planning Implications*, International Institute for Educational Planning, France.
4. Margaret G. W. Hardiman, James Midgley (1995), *The Social Dimensions of Development: Social Policy and Planning in the Third World*, U.M.I, UK.

5. Krishnaswamy Venkatasubramanian (1980), *Education and Economic Development in India,* Tamil Nadu, a Case Study.

Websites/ e-Learning Resources
1. https://www.google.co.in/books/edition/Human_Rights_Education_in_India/y
2. https://www.google.co.in/books/edition/Educational_Planning/BsbADwAAQBAJ?hl =en&gbpv=0
3. https://www.google.co.in/books/edition/Issues_In_Higher_Education_Vol_Ii/IenTJT D7bFgC?hl=en&gbpv=0

CO – PO Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO 1	3	3	3	3	3	3	3	3	2	2
CO 2	3	3	3	3	3	3	3	2	2	3
CO 3	3	3	3	3	3	3	3	3	1	2
CO 4	3	3	3	3	2	3	3	2	2	2
CO 5	3	2	2	3	3	3	3	3	2	2
Average	2.8	3	2.6	3	2.6	2.6	2.4	1.6	2.2	2.6

High– 3　　　　　**Medium– 2**　　　　**Low– 1**