

CENTRAL UNIVERSITY OF PUNJAB, BATHINDA



M.A. Economics

Session – 2020-22

Department of Economic Studies
School of Social Sciences

Programme Learning Outcomes

- (i) This programme focusses on developing skills to comprehend current events and evaluate specific policies, and to provide economic analyses to problems in real world situations.
- (ii) It targets to develop analytical skills to comprehend knowledge to use empirical evidence to evaluate the validity of economic arguments and theories to create employability at the national and international level.
- (iii) It focusses to help carrying out cutting-edge research in theoretical as well as applied economics.

IQAC

SEMESTER – I

Course Code	Course Title	Course Type	L	T	P	Credit
ECO.506	Microeconomics – I	Core	4	0	0	4
ECO.507	Macroeconomics – I	Core	4	0	0	4
ECO.508	Quantitative Methods in Economics – I	Core	4	0	0	4
ECO.509	International Economics	Core	4	0	0	4
ECO. ###	Students to choose a course from the list of elective courses given below	Elective	4	0	0	4
ECO.541	Seminar – I	Skill based	0	0	0	1
XXX. ###	Interdisciplinary Elective – I (Students to choose a course from other Departments)	IDC	2	0	0	2
	Total		22	0	0	23
List of Electives (Students to choose one course from these elective courses)/MOOC						
ECO.510	Agricultural Economics	Elective	4	0	0	4
ECO.511	Money and Banking	Elective	4	0	0	4
ECO.512	Globalization and Development	Elective	4	0	0	4
Interdisciplinary courses offered by Dept. of Economic Studies (for students of other Departments)						
ECO.513	Introduction to Globalization (IDC)	IDC	2	0	0	2
ECO.514	Foundations of Economics (IDC)	IDC	2	0	0	2

Evaluation Criteria for Theory Courses

- A. Continuous Assessment: [25 Marks]
 - i. Surprise Test (minimum three) - Based on Objective Type Tests (10 Marks)
 - ii. Term paper (10 Marks)
 - iii. Assignment(s) (5 Marks)
- B. Mid Semester Test: Based on Subjective Type Test [25 Marks]
- C. End Semester Subjective Test: Based on Subjective Type Test [25Marks]
- D. End-Term Objective Test: Based on Objective Type Tests [25 Marks]

SEMESTER - II

Course Code	Course Title	Credit	L	T	P	Course Type
ECO.521	Microeconomics - II	4	4	0	0	Core
ECO.522	Macroeconomics - II	4	4	0	0	Core
ECO.523	Quantitative Methods in Economics - II	4	4	0	0	Core
ECO.524	Economics of Growth and Development	4	4	0	0	Core
ECO. ###	Students to choose a course from the list of elective courses given below	4	4	0	0	Elective
ECO.542	Seminar - II	1	0	0	0	Seminar
XXX. ###	Interdisciplinary Elective - II (Students to choose a course from other Departments)	2	2	0	0	IDC
	Total	23	22	0	0	
List of Electives (Students to choose one course from these elective courses/MOOC)						
ECO.525	Industrial Economics	4	4	0	0	Elective
ECO.526	Financial Institutions and Markets	4	4	0	0	Elective
ECO.527	Demography	4	4	0	0	Elective
Interdisciplinary courses offered by Dept. of Economic Studies (for students of other Departments)						
ECO.528	Introduction to Indian Economy (IDC)	2	2	0	0	IDC
ECO.529	Agricultural Development and Management (IDC)	2	2	0	0	IDC

SEMESTER – III

Course Code	Course Title	Credit	L	T	P	Course Type
ECO.551	Basic Econometrics	4	4	0	0	Core
ECO.552	Public Economics	4	4	0	0	Core
ECO.553	Research Methods in Economics	4	4	0	0	Skill based
ECO.###	Students to choose a course from the list of elective courses given below	4	4	0	0	Elective
ECO.543	Seminar - III	1	0	0	0	Skill based
ECO.599	Project Work	6	0	0	0	Skill based
ECO.503	Data Analysis Using Excel	1	0	0	2	VAC
	Total	24	16	0	2	
Students are advised to opt for MOOCs courses from SWAYAM platform						
List of Electives (Students to choose one course from these elective courses/MOOC)						
ECO.554	Punjab Economy	4	4	0	0	Elective
ECO.555	Political Economy of Development	4	4	0	0	Elective
ECO.556	Environmental Economics	4	4	0	0	Elective

SEMESTER – IV

Course Code	Course Title	Credit	L	T	P	Course Type
ECO.571	Indian Economy	4	4	0	0	Core
ECO.###	Students to choose a course from the list of elective courses given below	4	4	0	0	Elective
ECO.544	Seminar - IV	1	0	0	0	Skill based
ECO.599	Project Work	6	0	0	0	Project
ECO.575	Practices of Economics -I	2	2	0	0	DEC
ECO.576	Practices of Economics -II	2	2	0	0	DEC
ECO.504	Data Analysis Using SPSS	1	0	0	2	VAC
	Total	20	12	0	2	
VAC to be added						
List of Electives (Students to choose one course from these elective courses)						
ECO.572	Advanced Econometric Theory and Applications	4	4	0	0	Elective

ECO.573	International Trade and Investment	4	4	0	0	Elective
ECO.574	Rural Economics	4	4	0	0	Elective

SEMESTER - I

Course Name: Microeconomics - I

Course Code: ECO.506

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Explain the optimizing behaviour of a consumer,
- Explicate the optimizing behaviour of a producer,
- Determine the optimum price and output in a market, and
- Apply the theories of consumption, production, cost and market structures in empirical observations.

Unit-I

15 Hours

Theory of Consumer Behaviour: Basic concepts; Marshall's Approach; Ordinal Utility Theory: Optimizations, derivation of demand function, income-leisure, substitution and income effects; Linear expenditure system, Separable and Additive utility functions, Homogeneous and Homothetic utility functions; Indirect utility functions and Duality theorem; Theory of revealed preference, Consumer Surplus and Elasticity of Demand. The problem of choice in situations involving Risk and Uncertainty (attitude towards risk and insurance)

Unit-II

15 Hours

Theory of Production and Costs: Basic Concepts; Short-run and long-run production functions; Properties of homogeneous production functions (CD and CES production functions); Optimizing Behaviour and derivation of input demand functions, Duality in Production; Production under Uncertainty; Concepts of Costs: Traditional Cost Theories: Short-run and Long-run Costs, Envelope curve; Modern theory of Costs: Short-run and Long-run, L-shaped scale curve; Engineering cost curves.

Unit-III

15 Hours

Price-Output under Perfect Competition and Monopoly: Perfect Competition: Short-run and Long-run Equilibrium; Supply curves of the Firm and Industry; Dynamic Changes and Industry Equilibrium. Monopoly: Short-run and Long-run Equilibrium; Predictions in Dynamic Changes, Regulated Monopoly (Taxation, and Price Regulation); Govt. regulated Monopoly; Discriminating Monopoly. Comparison Competitive and Monopoly firms and Excess capacity.

Unit-IV

15 Hours

Price-Output under Monopolistic Competition and Oligopoly: Monopolistic Competitive Market: Product differentiation and Demand curve; Industry and Group; Chamberlin's model: with entry and price

competitions and equilibrium of firms; Comparing Perfect Competitive and Monopolistic Competitive Markets; Concept of Excess capacity; Non-collusive Oligopoly: Cournot's model, Bertrand's model, Chamberlin's model, Stackelberg's model and Kinked demand Model of oligopoly.

Transaction Mode: Lecture, case study, problem solving, discussion & demonstration

Suggested Readings:

1. Snyder, C. and W. Nicholson (2010), *Fundamentals of Microeconomics, 10th Edition*, Cengage Learning-New Delhi.
2. Jehle, G. A. And P. J. Reny (2011), *Advanced Microeconomic Theory*, 3rd Edition, Pearson-New Delhi.
3. Henderson, J.M., and Quandt, R.E.(2003). *Microeconomic Theory: A Mathematical Approach. 3rd Edition*, Tata McGraw Hill, New Delhi
4. Pindyck, R.S. D.L. Rubinfeld, P.L Mehta (2009). *Microeconomics*, 7th Edition, Pearson, New Delhi.
5. Koutsoyiannis, A. (1979). *Modern Microeconomics* (2nd edition).Macmillan Press, London.
6. Varian, H.(2010). *Intermediate Microeconomic*. 8th Edition New York: W.W Norton.
7. Varian, H.(1992). *Microeconomic Analysis*. 3rd Edition New York: W.W Norton.
8. Mankiw, N. G. (2009). *Principles of Microeconomics*. 5th Edition. South-Western, Cengage Learning. USA
9. Samuelson, P.A. and Nordhaus, W.O. (1998).*Economics* (16th Edition). New Delhi: Tata McGraw Hill.
10. Stigler, G. (1996). *Theory of Price* (4th Edition).New Delhi: Prentice Hall of India.

Course Name: Macroeconomics - I

Course Code: ECO.507

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Estimate national income of a country,
- Asses the validity of classical macroeconomic theories,
- Evaluate the validity of Keynesian macroeconomic theories, and
- Apply the theories of consumption.

Unit-I

15 Hours

National Income: Basic Concepts, Measurement of National Income and Difficulties; Domestic and National Product and their Components, National income at factor cost and at Market Prices, Real and nominal GNP; National Income and Welfare, Social Accounting and its significance, System of National Accounts; Measurement of national Income in India.

IQAC

Unit-II **15 Hours**
Classical Theory of Output and Employment – The Classical Postulates; Say’s Law of Market, Full Employment – Demand for and Supply of Labour; Labour Supply and Money Wages; Unemployment and Wage Rigidity; Overall Equilibrium in the Basic Static Model (Goods, Labour & Money Markets).

Unit-III **15 Hours**
Keynesian Theory of Income Determination: Concepts and Functions; Two sector, Three sector and four sector Models of Income Determination; Investment Multiplier; Balanced Budget Multiplier; Keynesian Theory of Money and Interest; Basic two sector IS-LM Model.

Unit-IV **15 Hours**
Theories of Consumption: Keynesian Theory; Consumption Puzzle; Absolute Income Hypothesis, Relative Income Hypothesis, Permanent Income Hypothesis, Life Cycle Hypothesis.

Transaction Mode: Lecture, case study, problem solving, discussion & demonstration

Suggested Readings:

1. Mankiw, N. G. (2011): *Macroeconomics*, 6th edition, New York, Worth publishers
2. Fuller, Neil (2008): *Principles of macroeconomics*, Delhi, Overseas Press
3. Froyen, R. T. (2012): *Macroeconomics: theories and policies*. (8th edition), New Delhi, Pearson Education.
4. Blanchard, O. (2012): *Macroeconomics*. (4th edition), New Delhi, Pearson Education
5. Acemoglu, D. (2016): *Macroeconomics*, New Delhi, Pearson education India.
6. Branson, W. H. (2014): *Macroeconomics: Theory and policy*, (3rd edition), New Delhi, East-West press Pvt. Ltd.
7. Dornbusch, R.; Fisher, S. and Startz, R. (2015): *Macroeconomics*, (11th edition), New Delhi, Tata McGraw hill education India Pvt. Ltd.
8. Gordon, R. J. (2015): *Macroeconomics*, (12th edition), New Delhi Pearson education India Pvt. Ltd.
9. McConnell, C. R., and Gupta, H. C. (2012). *Introduction to Macroeconomics*. Tata McGraw-Hill Publishing Company
10. Shapiro, Edward. (2015): *Macroeconomic analysis*, (5th edition), New Delhi, Galgotia publication Pvt. Ltd.

Course Name: Quantitative Methods in Economics – I
Course Code: ECO.508

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Formulate and optimize economic functions,

- Find the time path of changes in economic variables,
- Deal with economic variables in larger dimensions, and
- Apply linear programming for best allocation of economic resources.

Unit-I **15 Hours**

Differentiation and Integration: Set Theory, Relation and Function, Limit, Continuity, Differentiation of algebraic, exponential, logarithmic, trigonometric, and implicit functions; Partial Differentiations, Euler's theorem and total differentials; Maxima and minima with and without constraints; Indefinite and definite integrals, Applications of static optimization techniques; Economic applications of differentiation and integration.

Unit-II **15 Hours**

Differential and Difference Equations: Differential and difference equations of first and second order; Applications for determining Market Equilibrium and other economic applications.

Unit-III **15 Hours**

Linear Algebra: Concept of Vector; Matrix: Types, properties of determinants, rank and inverse of matrix; System of linear equations, Solution by Cramer's rule and matrix inverse method, Linear independence and dependence of vectors, characteristic roots and vectors, quadratic forms.

Unit-IV **15 Hours**

Linear Programming: Formulation and solution of linear programming problem; simplex and graphical methods, Concept of Duality; Input-Output Analysis – Open and Closed Models; Game Theory & its Applications.

Transaction Mode: Lecture, tutorial, problem solving, discussion & demonstration

Suggested Readings:

1. Allen R.G.D (2016): *Mathematical analysis for econometrics*,_New Delhi, Trinity press
2. Asano, Akhito (2013): *An introduction to mathematics for economics*. New Delhi, Cambridge university press
3. Chiang, Alpha C. and Wainwright, Kevin (2013): *Fundamentals methods of mathematical economics* (4th edition), New Delhi, Tata McGraw hill education.
4. Harrison, Michael, and Waldron, Patrick. (2011): *Mathematics for economics and finance*, London, Routledge

5. Hoy, Michael and Others (2014): *Mathematics for economics*, (3rd edition), New Delhi, PHI learning, Pvt. Ltd.
6. Pemberton, Malcolm (2017): *Mathematics for economics. An introductory textbook*, New Delhi, Viva books Pvt. Ltd.
7. Sydsaeter, K., and Hammond, P. (2008). *Essential mathematics for economic analysis*. New Delhi: Pearson Education.
8. Vali, Shapoor (2014): *Principles of mathematical economics*, U.S.A., Atlantic press
9. Wang, Susheng (2015): *Mathematical Economics*, 2nd edition, New Jersey, World scientific.
10. Yamane, T. (2012). *Mathematics for Economists*. Literary Licensing, LLC

Course Name: International Economics

Course Code: ECO.509

L	T	P	Cr
4	0	0	4

Learning Outcomes: On completion of this course, students will be able to:

- Explain the various concepts and approaches used in international Economics;
- Identify the various problems emerged in international trade;
- Distinguish the various approaches in Balance of payments;
- Analyze the previous and existing pattern of globalization; and

Unit-I

15 Hours

Theories of International Trade: Absolute Advantage, Comparative Advantage and Opportunity Costs, Heckscher-Ohlin Theory of Trade; Factor Price equalization; Empirical testing of Heckscher Ohlin Theory, New approaches to trade theory: The Product Cycle Theory, Technology Gap Theory; Causes of Emergence and Measurement of Intra-industry Trade.

Unit-II

15 Hours

Terms of Trade: Concepts and Measurement; Prebisch and Singer views on terms of trade; Theory of Tariff; Regionalism and Multilateralism; Political Economy of Non-tariff barriers; Various forms of Economic Integration; Questioning the benefits of economic integration: Brexit crisis.

Unit-III

15 Hours

Balance of Payments and Adjustments: Concepts and components; Causes of disequilibrium and different approaches: Traditional, Absorption and monetary approach, Process of adjustment in the balance of payment under Gold Standard, Fixed Exchange Rate and Flexible Exchange Rates; Theory of foreign exchange market, exchange trading, arbitrage and market hedging; Foreign trade multiplier; Crisis and exchange rate.

Unit-IV**15 Hours**

Collapse of Bretton woods system and emergence of international monetary system (IMF and World Bank) World Trading System, WTO and its impact on different sectors, Globalization: Discontents, Issues for Developing Countries, Emergence of Global value chain, Changing pattern of Trade; UNCTAD, Global Inequality

Transaction Mode: Lecture, case study, discussion & demonstration

Suggested Readings:

1. Bhagwati, J. N. (1998). *International Trade: Selected Readings*. London: McMillan University Press.
2. Francis, C.(2008), *International Economics*, McGraw-Hill Education
3. Gopinath, G., Helpman, E. And Rogoff, K. (2014). *Handbook of International Economics*, North Holland Publications
4. James C. and Robert, M. (2004). *International Economics*, John Wiley & Sons. Inc.
5. Jones, R. W. and Kenen, P. B. (2003). *Handbook of International Economics*. (Volume I, II and III). Amsterdam: Elsevier.
6. Kofman, E., and Youngs, G. (2001). *Globalisation: Theory and Practice (2nd Ed.)*. London: Pinter.
7. Krugman, P. R. and Obstfeld, M. (2000). *International Economics: Theory and Policy*, Dorling Kindersley (India) Pvt. Ltd.
8. Mikic, M. (1998). *International Trade*. London: Macmillan Press.
9. Munck, R. (2003). *Globalization and Labour: The New Great Transformation*. Zed Books Ltd.
10. Nayyar, D. (2002). *Governing Globalisation: Issues and Institutions*. Delhi: Oxford University Press.
11. Sakamoto, Y. (1994). *Global Transformation: Challenges to the State System*. Tokyo: United Nations University Press
12. Salvatore, D. (2004). *International Economics*. John Wiley and Sons Inc.
13. Scholtze, J.A. (2000). *Globalisation: A Critical Introduction*. Basingstoke: Palgrave.
14. Sodersten, B. O. and Reed, G. (2008). *International Economics*. London: McMillan.
15. Stiglitz, J. E. (2002). *Globalization and its Discontents*. London: Penguin.
16. Stiglitz, J. E. (2013): *The Price of Inequality*, W. W. Norton & Company
17. Thomas Piketty (2015): *Capital in the 21st Century*, Brilliance Crop, MP3 Una edition.

Course Name: Seminar-I

Course Code: ECO.541

L	T	P	Cr
0	0	0	1

Learning Outcome: On completion of this course, students will be competent in writing and presentation skills. Also, they will be capable to debate on contemporary issues.

General Outline of Activities:

1. The course coordinator should make the students learn how to prepare seminar report as well as seminar presentations on a given topic.
2. The preparation of seminar report on a given topic should be made referring to the literature available in the form of text/reference books, journals, periodicals, magazines, news paper articles, and web resources.
3. The students should be encouraged to visit the library as well as computer centre of the University for preparing seminar reports and its power point presentation.
4. As far as possible the topic of the seminar should relate to current developments in the field.
5. The seminar report and its presentation should be evaluated by a duly constituted Department level committee.
6. **Evaluation Criteria:**
 - (i) Seminar is to be continuously evaluated from 100 Marks – 50 Marks for Seminar Report and 50 marks for oral presentation.
 - (ii) Evaluation of the Seminar Report should consist of introduction (10 marks), the issue (10 marks), discussion (10 marks), concluding remark (10 marks), and references (10 marks).
 - (iii) Evaluation of the Oral presentation should consists of ppt design (10 marks), presentation skill (20 marks), and discussion skill (20 marks).

Course Name: Agricultural Economics

Course Code: ECO.510

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, the students will be able to:

- Explain the dynamics of agricultural production,
- Evaluate the risk and uncertainties associated with agriculture,
- Explicate the techniques of agricultural marketing, and
- Assess the role of organizations for agricultural development.

Unit-I

15 Hours

Agricultural Economics: Meaning, Scope and Role in economic development; Interface between Agriculture and Industry; Land Reforms, Agriculture Development in Planning Periods and recent initiatives by NITI Ayog; Green

Revolution: Implementation and Impacts; Growth, Productivity and Regional Disparities in Indian Agriculture;

Unit-II

15 Hours

Farm Size and Productivity Relationships, Risk and Uncertainty in Agriculture, Capital Formation in Agriculture; Problems of marginal and small farmers and agricultural labourers; Agrarian Crises and Farmer Suicide: Reasons and Solutions; Farm Management: Basics; Agricultural Marketing: Existing Structure, Problems, Costs and Efficiency in the markets.

Unit-III

15 Hours

Marketing Reforms, Innovations in Agricultural Marketing System, Agricultural Price Policy in India-instruments and assessment; Food Security and Public Distribution System (PDS), Agricultural Finance: Role, Agencies, problems, Policies, Inter-linked Credit Markets.

Unit-IV

15 Hours

Cooperative: Organisation, Structure, Functions and Principles. Agricultural subsidies - Nature, Trends and Distributional Implications; Agricultural Exports: Nature, Trend, Composition; WTO and Indian agriculture. Water Scarcity Problem in Agriculture, Impact of Climate Change on Agriculture.

Transaction Mode: Lecture, case study, discussion & demonstration

Suggested Readings

1. Acharya, S.S. and Agarwal, N.L. (2012). Agricultural Marketing in India. Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.
2. Bansil, P.C. (2017). Economic Problems of Indian Agriculture. Daya Publishing House, New Delhi.
3. Barkley, A. (2013). Principals of Agricultural Economics, Routledge, London.
4. Bhalla, G. S. and Gurmail S. (2001). Indian Agriculture: Four Decades of Development. New Delhi: Sage Publications.
5. Chand, R. (2012). Development Policies and Agricultural Markets. Economic and Political Weekly, 47 (52): 53-63.
6. Chand, R., S S Raju, S. Garg and L.M. Pandey (2011). Instability and Regional variation in Indian Agriculture, NCAP, New Delhi.
7. Despandey, R.S. & Arora, S. (2010): Agrarian Crisis and Farmer Suicide, (eds.), Sage India Publications
8. Dev, S. M. and Rao, N.C. (2010). Agricultural Price Policy, Farm Profitability and Food Security. Economic and Political Weekly, 45 (26 & 27): 174-182.
9. Gill, A. (2004). Interlinked Agrarian Credit Markets: Case Study of Punjab. Economic and Political Weekly, 39 (33): 3741-3751.
10. Govt. of India (Latest). Agricultural Statistics at a Glance, Ministry of Agriculture, New Delhi.
11. Govt. of India (various years): Five Year Plans, Planning Commission, New Delhi.

12. Govt. of India (n.d.). Various Reports, Ministry of Agriculture and Farmer's welfare, Government of India, New Delhi.
13. Gulati, A. and Kelly, T. (2001). Trade Liberalisation and Indian Agriculture. New Delhi: Oxford University Press.
14. Gulati, A. and Narayanan (2005). The Subsidy Syndrome in Indian Agriculture, Oxford University Press, New Delhi.
15. Johl, S.S. and Kapur, T.R. (2006). Fundamentals of Farm Business Management, Kalyani Publishers, Ludhiana.
16. Martin, C. (2013). The world of Agricultural Economics, Routledge: New York.
17. Pingali, P. (2010). Handbook of Agricultural Economics, Elsevier Press, Amsterdam.
18. Penson, J.B., Capps, O. and Woodward, R.T. (2018). Introduction to Agricultural Economics, Pearson Education, New Delhi.
19. Reddy, S.S. and Ram, P.R. (2000). Agricultural Finance and Management. Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi.
20. Reddy, S.S. , Ram, R. and Sastry, T.V.N. , Devi. I.B. (2008). Agricultural Economics, Oxford.
21. Reddy, D.N. and Srijit Mishra (2010). Agrarian Crisis in India, (eds.), Oxford University Press.
22. Soni, R.N. and Malhotra, S. (2016). Leading Issues in Agricultural Economics, Vishal Publishing Co. Delhi.

Course Name: Money and Banking

Course Code: ECO.511

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Comprehend the theories of money supply
- Explain the theories of demand for money
- Assess the functioning of a financial system, and
- Evaluate the effectiveness of monetary policy in a country.

Unit-I

15 Hours

Introduction to Money: Meaning, Nature and functions; Quantity Theory of Money – Classical, Keynesian, Monetarists; Theories of Money Supply, Components of Money Supply; Measures of Money Supply; Determinants of Money Supply; Money Multiplier. Liquidity Approach to Monetary Theory- Gurley-Shaw Thesis, Radcliffe Committee Report.

Unit-II

15 Hours

Demand for Money – Classical Theory, Keynes' Theory, Portfolio Balance Theory, Friedman's Theory; Monetary Policy – Meaning, Objectives, and Instruments; The structure of interest rate – term structure and yield curve; Theories of term structure of interest rates.

Unit-III**15 Hours**

Financial System – Different theories & Approaches; Financial Markets – Functions and Types; Money Market and Capital Market – nature, functions and instrument; Structure of Indian money and capital markets; Theoretical perspectives on financial and real sectors.

Unit-IV**15 Hours**

Banking – Theories of Banking; Commercial and Central Banking Systems – Functions, Credit Creation and Credit Control; Banking and Non-Banking Financial Intermediaries in India; RBI – Functions, Monetary Policy – Methods and Recent Changes in India; International Monetary policy transmission mechanism.

Transaction Mode: Lecture, case study, discussion & demonstration

Suggested Readings:

1. Bhole, L. M. (2004). *Financial Institutions and Markets: Structure, Growth and Innovations*. India: Tata McGraw-Hill Education
2. Gautam, S.K. (2012): *Money, banking and finance*. Mumbai, Vakratund publishers.
3. Hajela, T.N (2009): *Money and banking: Theory with Indian banking*. New Delhi, Ane books Pvt. Ltd.
4. Hajela, T.N. (2015): *Money banking and public finance*, New Delhi, Ane Books Pvt. Ltd.
5. Iyenagar (2011): *Money matters: Macroeconomics and financial markets*, New Delhi, Sage publications
6. Mithani, D.M. (2013): *Money, Banking, international trade and public finance*, New Delhi, Himalaya publishing house
7. Poonia, V. (2012): *Money banking in India*. New Delhi, Srishti books distributors.
8. Popli, G. S., Jain, A. (2015): *Principles and Systems of Banking*, PHI Publishing.
9. Uppal, R.K (2011): *Money banking and finance: evolution and present structure*, New Delhi, new century publications
10. Zola, Emile (2014): *Money*, New Delhi, Oxford University press

Course Name: Globalization and Development

Course Code: ECO.512

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Asses the process of globalization,
- Correlate the process of globalization with the functioning of transnational corporations,
- Evaluate the regional and multilateral agreements under globalization, and
- Critically assess the process of economic development in the perspective of globalization.

Unit-I**15 Hours**

Issues in Globalization: Alternative Perspectives on its Nature and Character; Critical Dimensions: Economic, Political, Strategic, Cultural and Informatics, Globalization and the new global economy: Globalization as representing the triumph of free market capitalism; Continuity and change in the world economy since the 1970s; Economic Policy Changes in the Advanced and Developing Nations and Developments in Communication Technology.

Unit-II**15 Hours**

Transnational Corporations and the Globalization Process: TNCs and FDI and technology flow; Changing patterns of international trade: intra-firm and inter-firm trade; international production networks; Structure and Working of the International Capital market: the main actors and instruments of international asset transaction; offshore banking; Eurocurrencies and their trading; global finance and hot money flows.

Unit-III**15 Hours**

Regional and multilateral agreements: Brief History of Multilateral Institutions, their Structure and Working: International Monetary Fund and the World Bank; The World Trade Organization: Organizational structure and decision making process and its evolving role; Questioning the benefits of economic integration: Inequality and instability in global economy.

Unit-IV**15 Hours**

Agricultural Globalization and Developing Countries; Industry and Services in the globalization process: Labour, Migration and Outsourcing; Globalization, State, Sovereignty and the Civil Society; The World Social Forum.

Transaction Mode: Lecture, case study, discussion & demonstration

Suggested Readings:

1. Bhatia, S.K. (2017). *Brexit and India: Analyzing the Implication* (Eds.). New Delhi Publishers.
2. Daniels, P.W., and Lever, W.F. (1997). *The Global Economy in Transition*. Harlow:
3. Edwards, M., and Gaventa, J. (2001). *Global Citizen Action: Perspectives and Challenges*. Boulder Colo: Westview Press.
4. Held, D., McGrew, A., Goldblatt, D., and Perraton, J. (1999). *Global Transformation: Politics, Economics and Culture*. Cambridge: Polity Press.
5. Herman, Edward and Robert W McChesney, *Globalization of culture* (New Delhi: Madhyam Books 2003)
6. Hoogvelt, A. M. M. (1997). *Globalisation and the Postcolonial World: The New Political Economy of Development*. Palgrave Macmillan.
7. Jackson, H. J. (1998). *The World Trade Organisation*. London: The Royal Institute of International Affairs.

8. James, P., and Veltmeyer, H. (2001). *Globalisation Unmasked*. London: Zed Books.
9. Khor, K. P., and Khor, M. (2001). *Rethinking Globalisation: Critical Issues and Policy Choices*. London: Zed Books.
10. Kofman, E., and Youngs, G. (2001). *Globalisation: Theory and Practice (2Ed.)*. London: Pinter.
11. Munck, R. (2003). *Globalization and Labour: The New Great Transformation*. Zed Books Ltd.
12. Nayyar, D. (2002). *Governing Globalisation: Issues and Institutions*. Delhi: Oxford University Press.
13. Robert. C. Feenstra, (2004) *Advanced International Trade, Theory and Evidence, Published by Princeton University Press*.
14. Robert. C. Feenstra, and Alan, M. Taylor, (2011) *International Economics, Worth Publishers; Second Edition*.
15. Sailors, J. W., Qureshi, U. A., and Cross, E. M. (1973). Empirical Verification of Linder's Trade Thesis. *Southern Economic Journal*, 262-268.
16. Sakamoto, Y. (1994). *Global Transformation: Challenges to the State System*. Tokyo: United Nations University Press.
17. Salvatore, D. (2013). *International Economics (11th Edition)*. USA: Wiley.
18. Sandeep, K. (2015). Migration and Bilateral Trade Flows: Evidence from India and OECD Countries. *Applied Econometrics and International Development*, 15(2), 179-196.
19. Scholtze, J.A. (2000). *Globalisation: A Critical Introduction*. Basingstoke: Palgrave.
20. Stiglitz, J. (2002). *Globalization and its Discontents*. London: Penguin.
21. UNCTAD, Trade and Development, Various Issues.
22. White, B., Little, R., and Smith, M. (2001). *Issues in World Politics (2Ed.)*. Basingstoke: Palgrave.
23. Williams, M., Goetz, A. M., O'Brein, R., and Scholte, J. A. (2000). *Contesting Global Governance: Multilateral Economic Institutions and Global Social Movements*. Cambridge: Cambridge University Press.

Course Name: Introduction to Globalization

Course Code: ECO.513

L	T	P	Cr
2	0	0	2

Learning Outcome: On completion of this course, students will be able to:

- Explicate the process of globalization,
- Recognize the pattern of cross-border economic relationships,
- Assess the regional and multinational agreements, and
- Evaluate the working of international organizations.

Unit-I

8 Hours

Meaning, Nature, Scope, Types, and Process of Globalization.

Unit-II **7 Hours**
Pattern of International Trade, Foreign Direct Investment.

Unit-III **8 Hours**
Regional and Multinational agreements: Brief History.

Unit-IV **7 Hours**
Structure and Working of International Monetary Fund and World Bank

Transaction Mode: Lecture, case study, discussion & demonstration

Suggested Readings:

1. Bhaduri, Amit and Deepak Nayyar (1996): *The Intelligent Person's Guide to Liberalization*, New Delhi: Penguin Books
2. Deepak Nayyar (1995): *Presidential Address on Globalization*, 78th Annual Conference of Indian Economic Association, India
3. Kofman, E., and Youngs, G., (2001): *Globalization: Theory and Practice*. London: Pinter.
4. Salvatore, D. (2004). *International Economics*. John Wiley and Sons Inc.
5. Scholtze, J.A. (2000). *Globalization: A Critical Introduction*. Basingstoke: Palgrave.
6. Stiglitz, J. (2002). *Globalization and its Discontents*. London: Penguin.

Course Name: Foundations of Economics

Course Code: ECO.514

L	T	P	Cr
2	0	0	2

Learning Outcome: On completion of this course, students will be able to:

- Recognize the basic structure of an economy,
- Assess the functioning of markets in an economy,
- Evaluate the effectiveness of economic policies, and
- Apply theories and approaches of economics for economic development of country.

Unit-I **8 Hours**
Economics, The production possibility frontier, Demand, Elasticity of demand, Supply, Market equilibrium, The free market system, Intervening in the market system, Costs: Short run and long run, Revenues, costs, and profits.

Unit-II **7 Hours**
Perfect competition, Monopoly, Oligopoly, Monopolistic competition and non-price competition, The labour market, Introduction to macroeconomics, Equilibrium in the economy.

Unit-III**8 Hours**

National income and the standard of living, Aggregate demand, aggregate supply, and the price level, Consumption, Investment, Fiscal policy, Money and monetary policy.

Unit-IV**7 Hours**

Economic growth and the economic cycle, Unemployment, Inflation, Exchange rates, International trade, balance of payments, and protectionism, Protectionism and globalization.

Transaction Mode: Lecture, case study, discussion & demonstration

Suggested Readings:

1. Dewett, K. K. (2010). *Modern Economic Theory*. New Delhi: S. Chand & Company Ltd.
2. Gillespie, Andrew (2014). *Foundations of Economics* (3rd Edition). Oxford University Press, Oxford
3. Hoag, A.J and Hoag, J. H. (2010). *Introductory Economics* (4th Edition). Chennai: World Scientific Publishing Co. Pte. Ltd.
4. Lipsey, R.G., and Chrystal, K.A., (1995): *An Introduction to Positive Economics*, Oxford University Press
5. Mankiw, N. (2014). *Principles of Economics* (3rd Edition). South Western: Mason.
6. Samuelson, P.A., and William Nordhaus (2009): *Economics*, Tata-McGraw-Hill

SEMESTER-II**Course Name: Microeconomics – II****Course Code: ECO.521**

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Determine best price and output in various market structures,
- Determine the price of a commodity,
- Determine the optimal distribution of national income, and
- Find the best ways to maximize economic welfare.

Unit-I**15 Hours**

Collusive Oligopoly and Theory of Games: Collusive Oligopoly: Cartels: Market sharing and joint profit maximization; Price leadership: Low-cost, Dominant firm, and Barometric price Leaderships. Theory of Games and collusive oligopoly: Two-person Zero-Sum Game; Certainty and Uncertainty Model; Non Zero-Sum Game; The prisoner's Dilemma, Nash- Equilibrium.

Unit-II**15 Hours**

Marginalist Controversy and Average Cost Pricing: Marginalist Controversy and Average Cost Pricing: Hall and Hitch Report and Full-Cost Pricing; Gordon's Attack; The Mark-Up Rule; Bain's Limit-Pricing theory; Recent developments in Limit Pricing Theory: Sylos-Labini, Franco-Modigliani, Bhagwati, Pahligian models; Managerial Theories of Firm: Baumol, Marris and Williamson Models of the Firm.

Unit-III**15 Hours**

Factor Pricing and Income Distribution: Factor Pricing under Perfectly Competitive Markets; Factor Pricing Under Imperfectly Competitive Markets: Monopolistic and Monopsonistic powers; Bilateral Monopoly; Elasticity of factor Substitution; Technological Progress and Income Distribution; Pricing of fixed factors: Rents and Quasi Rents; Adding up Problem and Product Exhaustion Theorem.

Unit-IV**15 Hours**

General Equilibrium and Welfare Economics: Interdependence in the Economy; The Walrasian System; Existence, Uniqueness and Stability of an Equilibrium; Path to General Equilibrium; Two-factor, two-commodity, Two-consumer General Equilibrium System. Welfare Economics: Pareto Optimality; Kaldor-Hicks Compensation Criteria, Bergson Criteria; Maximization of Social Welfare. Arrow's Impossibility Theorem and Theory of Second Best.

Transaction Mode: Lecture, case study, problem solving, discussion & demonstration

Suggested Readings:

1. Henderson, J.M., and Quandt, R.E. (2003). *Microeconomic Theory: A Mathematical Approach. 3rd Edition*, Tata McGraw Hill, New Delhi
2. Jehle, G. A. And P. J. Reny (2011), *Advanced Microeconomic Theory*, 3rd Edition, Pearson-New Delhi.
3. Koutsoyiannis, A.(1979). *Modern Microeconomics* (2nd edition).Macmillan Press, London.
4. Mankiw, N. G. (2009). *Principles of Microeconomics*. 5th Edition. South-Western, Cengage Learning. USA
5. Pindyck, R.S., D.L. Rubinfeld, & P.L Mehta (2009). *Microeconomics*, 7th Edition, Pearson, New Delhi.
6. Samuelson, P.A. and Nordhaus, W.O. (1998).*Economics* (16th Edition). New Delhi: Tata McGraw Hill.
7. Snyder, C. and W. Nicholson (2010), *Fundamentals of Microeconomics, 10th Edition*, Cengage Learning-New Delhi.
8. Stigler, G. (1996). *Theory of Price* (4th Edition).New Delhi: Prentice Hall of India.
9. Varian, H. (1992). *Microeconomic Analysis*. 3rd Edition New York: W.W Norton.
10. Varian, H. (2010). *Intermediate Microeconomic*. 8th Edition New York: W.W Norton.

Course Name: Macroeconomics – II

Course Code: ECO.522

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Assess the theories of investment,
- Comprehend the causes and consequences of cyclical fluctuations in an economy,
- Correlate inflation and unemployment for policy effectiveness, and
- Evaluate the effectiveness of macroeconomic policies.

Unit-I

15 Hours

Theories of Investment: IS-LM model with Govt. Sector; IS-LM Model with Foreign Sector; Keynesian Theory of Investment Decisions, The Accelerator Theory of Investment; Lags in Investment, Jorgenson's Neo-Classical Theory of Investment; Theory of Rational Expectations; The Supply-Side Economics.

Unit-II

15 Hours

Business Cycle Theories: Pure Monetary Theory; Monetary over investment theory; Schumpeter's innovation theory; Keynes' theory, Samuelson's Multiplier-accelerator interaction theory; Hicks' trade cycle theory; Global Recession and Euro-Area Crisis.

Unit-III

15 Hours

Inflation and Unemployment: Meaning, causes, effects and control of Inflation; Theories of Inflation; Inflation and the rate of unemployment – Phillips curve hypothesis; Policy dilemma – inflation or unemployment; automation and unemployment.

Unit-IV

15 Hours

Macroeconomic Policies: Meaning, Objectives and Formulation, Monetary & Fiscal Policy – instruments and their relative effectiveness; trade policies and exchange rate policies.

Transaction Mode: Lecture, case study, problem solving, discussion & demonstration

Suggested Readings:

1. Acemoglu, Doron (2016): *Macroeconomics*, New Delhi, Pearson education India.
2. Branson, William H. (2014): *Macroeconomics: Theory and policy*, (3rd edition), New Delhi, East-West press Pvt. Ltd.
3. Carlin, Wendy; & Soskice, David (2013): *Macroeconomics: Imperfections, institutions & policies*, New Delhi, Oxford University press.
4. Dornbusch, Rudinger; Fisher, Stanley; and Startz, Richard (2015): *Macroeconomics*, (11th edition), New Delhi, Tata McGraw hill education India Pvt. Ltd.
5. Gordon, Robert. J. (2015): *Macroeconomics*, (12th edition), New Delhi Pearson education India Pvt. Ltd.

6. McConnell, C. R., and Gupta, H. C. (2012). *Introduction to Macroeconomics*. Tata McGraw-Hill Publishing Company
7. Prasad, N. K. (2012): *Advanced macroeconomics*, Delhi ABD publisher.
8. Romer, David (2012): *Advanced Macroeconomics* (4th edition), New York, Tata McGraw Hill companies.
9. Shapiro, Edward. (2015): *Macroeconomic analysis*, (5th edition), New Delhi, Galgotia publication Pvt. Ltd.
10. Wickens, Michael (2011): *Macroeconomic theory*, 2nd edition, New Jersey, Princeton university press.

Course Name: Quantitative Methods in Economics-II

Course Code: ECO.523

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Apply various techniques of correlation and regression,
- Construct index numbers,
- Evaluate the uncertainties associated with economic events, and
- Randomize the economic experiences/observations.

Unit-I

15 Hours

Correlation and Regression: Meaning, assumptions and limitations of simple correlation and regression-analysis; Pearson's product moment and Spearman's rank Correlation coefficients and their properties; partial and multiple correlation, lines of regression and properties of regression coefficients; Multiple linear regression equation and coefficient of multiple determination (application only).

Unit-II

15 Hours

Index Number: meaning, problems in construction of an index number, Tests of consistency:, Base shifting and splicing of Index Numbers. Time Series: Components of Time series, Measurement of trend by moving average method and the method of least squares. Curve fitting .Method of estimation of second degree parabolic, exponential and modified exponential curves; Method of computing average annual rate of growth.

Unit-III

15 Hours

Elementary concept of a random variable: probability mass and density functions; Expectations, moments and moments generating function of a random variable; Elements of Probability: Deterministic and non-deterministic experiments, various types of events; Classical and empirical definitions, laws of addition and multiplication of probability, conditional probability, Properties and applications of Binomial, Poisson and normal distributions.

Unit-IV**15 Hours**

Sampling: Concepts and uses of sampling, difference between random and non-random sampling, simple random sampling, stratified random sampling and probability proportional to size sampling; Meaning and construction of confidence interval for sample mean. Elementary applications based upon the distribution of Z, t, x^2 and F (including ANOVA) statistics.

Transaction Mode: Lecture, problem solving, discussion & demonstration

Suggested Readings:

1. Gupta, S. C. (2012). *Fundamentals of Statistics*. New Delhi: Himalaya Publishing House Pvt. Ltd.
2. Gupta, S. C., and Kapoor, V. K. (2009). *Fundamentals of applied statistics*. New Delhi: Sultan Chand and Sons.
3. Gupta, S.P. (2012). *Statistical Methods* (28th Edition). New Delhi: Sultan Chand and sons.
4. Knut S, and Peter J. H. (2007). *Mathematics for Economic Analysis*. India: Pearson Education.
5. Murray, S. S. (2014). *Probability, Schaum Series (5th Edition)*. India: McGraw-Hill.
6. Murray, S. S. (2014). *Statistics, Schaum Series (5th Edition)*. India: McGraw-Hill
7. Nagar, A. L. and R. K. Das (1993). *Basic Statistics*. New Delhi: Oxford University Press.

Course Name: Economics of Growth and Development

Course Code: ECO.524

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Estimate the level of growth and development of a country,
- Apply the theories for devising best development plans,
- Design ideal strategies for development of a country,
- Selected appropriate investment criterion for development, and
- Choose the best technique of economic production.

Unit-I**15 Hours**

Growth and Development: Meaning and difference; Indicators of Growth – GDP and Per capita GDP; Indicators of economic development – PQLI, HDI, MPI, Problems of Economic Development; Poverty, Inequality and Sustainable Development – SDGs and Managing Sustainable Development; Social Sector Development – Health, Education and Gender;

Unit-II**15 Hours**

Theories of Development- Adam Smith, Ricardo, Malthus, Karl Marx, Schumpeter, and Rostow; Models of Economic Growth: Harrod-Domar, Solow, Robinson, Endogenous Growth Models;

Unit-III**15 Hours**

Dualism: Meaning, Characteristics and forms; Models of Dualistic growth: Lewis, Ranis and Fei, Jorgenson, and Todaro; Approaches to Development-Balanced Growth, Critical Minimum Effort, Big Push, Unbalanced growth.

Unit-IV**15 Hours**

Investment Criteria, Choice of Techniques - labour, capital and intermediate; Vicious Circle of Poverty and Low Level Equilibrium Trap; Theories of Institutions and Development; Infrastructure and Economic Development.

Transaction Mode: Lecture, problem solving, discussion & demonstration

Suggested Readings:

1. Acemoglu, D., and Robinson, J. (2006): The Role of Institutions in Economic Growth and Development, Chapter-5, Growth Commission Resources, Vol.3, World Bank
2. Chang, Ha-Joon (2006): Institutional Change and Economic Development, United Nations University Press.
3. Eckaus, P.S. and Parikh, K.S (2003). *Planning for Growth*. 2nd Revised Ed., MIT.
4. Ghatak, S. (2003). *Introduction to Development Economics*, Routledge.
5. Griffin, K. and J.L. Enos (1970). *Planning Development*. Addison-Wesley.
6. Marx, Karl(1867-1894).Capital: Critique of Political Economy, 3 vols.
7. Meier, G. M. and Rauch, J. E. (2006). *Leading Issues in Economic Development* (8th Edition). New York: Oxford University Press.
8. Ray, D. (2004). *Development Economics*, Seventh Impression. New Delhi: Oxford University Press.
9. Ricardo, David(1817). On the Principles of Political Economy and Taxation.
10. Ronald, G. (2010): Development Economics, Pearson, India
11. Thirlwall, A. P. (2006). *Growth and Development* (8th Edition). New York: Palgrave Macmillan.
12. Todaro, M. P. and Stephen C. S. (2007). *Economic Development* (8th Edition). New Delhi: Second Impression, Pearson Education (Singapore) Pvt. Ltd., Indian Branch.

Course Name: Seminar-II**Course Code: ECO.542**

L	T	P	Cr
0	0	0	1

Learning Outcome: On completion of this course, students will be competent in writing and presentation skills. Also, they will be capable to debate on contemporary issues.

General Outline of Activities:

1. The course coordinator should make the students learn how to prepare seminar report as well as seminar presentations on a given topic.
2. The preparation of seminar report on a given topic should be made referring to the literature available in the form of text/reference books,

journals, periodicals, magazines, news paper articles, and web resources.

3. The students should be encouraged to visit the library as well as computer centre of the University for preparing seminar reports and its power point presentation.
4. As far as possible the topic of the seminar should relate to current developments in the field.
5. The seminar report and its presentation should be evaluated by a duly constituted Department level committee.

Evaluation Criteria:

- (i) Seminar is to be evaluated from 100 Marks – 50 Marks for Seminar Report and 50 marks for oral presentation.
- (ii) Evaluation of the Seminar Report should consist of introduction (10 marks), the issue (10 marks), discussion (10 marks), concluding remark (10 marks), and references (10 marks).
- (iii) Evaluation of the Oral presentation should consists of ppt design (10 marks), presentation skill (20 marks), and discussion skill (20 marks).

Course Name: Industrial Economics
Course Code: ECO.525

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Set the goals for business organizations,
- Choose appropriate locations of industries,
- Assess the profitability of business organizations, and
- Measure the productive capacity of industries.

Unit-I

15 Hours

Industrial Economics – Meaning, Nature and Scope, Concept and organization of the firm, ownership, control and objectives of the firm, passive and active behaviour of the firm.

Unit-II

15 Hours

Market Structure: Seller’s concentration, product differentiation, entry conditions, economies of scale, market structure and profitability, and market structure and innovation; Theories of industrial location: Weber and Sargent Florence, factors affecting location; Industrial Finance in India.

Unit-III

15 Hours

Market Conduct: Product pricing – theories and evidence; Investment expenditure- Theories and empirical evidence; and Merger and diversification. Market Performance: Growth, size, and profitability of the firm; and Constraints on firm’s growth.

Unit-IV

15 Hours

Industrial Productivity: Concept and measurement, Capacity utilization – concept and measurement; Changes in Industrial structure and economic

development; MNC's and transfer of technology; Small Scale Industries; Public policy and industrialization; Privatization – concept, scope and relevance; Trade Union, Social Security and Reforms in India.

Transaction Mode: Lecture, problem solving, discussion & case studies

Suggested Readings:

1. Bains, J. S. (1996). *Industrial Organization, Cheltenham, U.K. An Elgar Critical Writings Reader.*
2. Barthwal, R. R. (2010). *Industrial Economics: An Introductory Textbook.* New Delhi: New Age International Publishers.
3. Hay, D. A and Morris, D. J. (1991). *Industrial Economic: Theory and Evidence.* Oxford University Press.
4. Lee, N., Jones, R. M., and Tyson, W. J. (1985). *An Introduction to Industrial Economics.* London: Allen and Unwin.
5. Marshall, A. (2003): *Elements of Economics of Industry,* Simon Publications, UK
6. Marshall, A. and Marshall, M. P. (2012): *The Economics of Industry,* Ulan Press, UK

Course Name: Financial Institutions and Markets

Course Code: ECO.526

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Evaluate the functioning of a financial system,
- Assess the role of financial markets in an economy,
- Describe the efficiency of financial institutions, and
- Explain the effectiveness of financial services in an economy.

Unit-I

15 Hours

Financial System – Formal and Informal Financial Sectors, Components of the formal financial system, functions of a financial system, key elements of a well-functioning financial system, nature and role of financial intermediaries and financial markets in an economy, Structure of the Indian Financial System and reforms, Relationship between the financial system and economic growth – some theoretical and empirical evidence.

Unit-II

15 Hours

Financial Markets – The Money Market – Functions of the Money Market, Benefits of an Efficient Money Market, Money Market Instruments, The Indian Money Market; The Capital market – Functions of a Capital market, The Primary Market and Secondary Market, The Derivative Market, The Debt Market; Financial Regulation – RBI and SEBI.

Unit-III **15 Hours**
Financial Institutions – Development Financial Institutions in India, Banking and Non-Banking Institutions, Management of NPAs by Banks in India, Mutual Funds – Investors, Organization, Types of Funds; Insurance – Role of Insurance in economic growth, Insurance intermediaries, Insurance Types, Insurance Regulatory - IRDA.

Unit-IV **15 Hours**
Financial Services – Investment Banking Services, Merchant Banking Services, The Depository System, Introduction to Credit Rating - CRISIL and ICRA, Housing Finance, Leasing and Hire Purchase, Financial Inclusion and Microfinance.

Transaction Mode: Lecture, discussion & case studies

Suggested Readings:

1. Avadhani, V.A. (2012): Financial Services and Markets, Himalaya Publishing House, India
2. Bhole, L. M. (2015): *Indian Financial System*, Chugh Publications, Allahabad, India
3. Bhole, L. M. (2016): *Financial Institutions and Markets*, Tata McGraw Hill Company Ltd., New Delhi, India
4. Gordon and Natarajan (2012): Financial markets and services, Himalaya Publishing House, India
5. Gupta, Shashi K. & Agrawal, Nisha (2013): Financial services, Kalyani Publishers, India
6. Houthakker, H. S. & Williamson, P. J. (1996): *Economics of Financial Markets*, Oxford University Press.
7. Khan, M. Y. (2016): *Indian Financial System*, Tata McGraw Hill, New York.
8. Pathak, B. (2014): *Indian Financial System*, Pearson Publication, India

Course Name: Demography
Course Code: ECO.527

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Explain the theories of demographic transition,
- Prepare projections for population growth,
- Evaluate the population policies in India, and
- Explain the dynamics of population change.

Unit-I **15 Hours**
Basic Concepts, Indicators and Theories: Meaning and Scope of demography, Population and Economic Development; Vital Rates – Fertility,

Mortality, Age Pyramids, and Life Tables; From Development to Population; Theory of Demographic Transition; Historical Trends; Adjustment of Birth and Death Rates; Household Choice Models; From Population to Development; Malthusian View; Growth Impact; Population and Environment; Population and Innovation; Markets and Inputs.

Unit-II

15 Hours

Population Projection: National Projection of Total Population and Age-Sex composition – Mathematical Methods and Cohort-Component Methods; Methods of National & Sub-National Projection of Population; Projection of the Economically Active Population; Concepts of Stable, Stationary, and Quasi-Stationary Population.

Unit-III

15 Hours

Population and Population Policy in India: Major demographic features of India's population – Spatial, Age, Sex, Structure of Indian Population; Birth rate, Death rate, Life Expectancy & Infant Mortality; Trends & Patterns; Evaluation of family welfare programmes in India - National Population Policies since independence.

Unit-IV

15 Hours

Aging and Demographic Change: Aging Process, Ageing around the world, The impact of demographic changes, The changing balance of age groups, Social, Economic, and Demographic Changes among the Elderly, Dependency ratio, Generational accounting and Pensions crisis; Social Groups and Family Size.

Transaction Mode: Lecture, discussion & case studies

Suggested Readings:

1. Bogue, D.J. (1971), Principles of Demography, John Wiley, New York.
2. Bose, A. (1996), India's Basic Demographic Statistics, B.R. Publishing Corporation, New Delhi
3. Choubey, P. K. (2000). *Population Policy in India*. New Delhi: Kanishka Publications.
4. Cochrane, S. H. (1975). Children as by-products, investment goods and consumer goods: a review of some micro-economic models of fertility. *Population Studies* 29(3): 373-390.
5. Dandekar, V.M. (1998). Population Front of India's Economic Development. *Economic and Political Weekly*. 22(17): 837-842.
6. Dave, P., & Mehta, P. (2008). *Mental Health and Aging Women: Important Correlates*. New Delhi: Gyan Publishing House.
7. Ehsanual, H. (2007). *Sociology of Population*. New Delhi: Macmillan.
8. Hustedde, Ronald J., Ron Shaffer and Glen Pulver. (2005). *Community Economic Analysis: A How to Manual*. Rev. ed
9. Ishwar M. (2001). *Ageing and Human Development: Global Perspectives*. New Delhi: Rawat.
10. Novell, C. (1988), *Methods and Models in Demography*, Bellhaven Press, London.

11. Simon, J. L. (1992). *Population and Development in Poor Countries*. Princeton: Princeton University Press.
12. Srinivasan, K. and A. Shariff (1998), *India: Towards Population and Demographic Goals*, Oxford University Press, New Delhi
13. Srinivasan, K., (1992) *Basic Demographic Techniques and Applications*, Sage Publications, New Delhi.
14. Weil, David N., (1997) "The Economics of Population Aging" in Mark R. Rosenzweig and Oded Stark, eds., *Handbook of Population and Family Economics*, New York: Elsevier, 967-1014.

Course Name: Introduction to Indian Economy

Course Code: ECO.528

L	T	P	Cr
2	0	0	2

Learning Outcome: On completion of this course, students will be able to:

- Analyse the economic scenario of India,
- Recognize the sectoral composition of Indian economy,
- Assess the effectiveness of economic policies, and
- Evaluate the foreign trade policies and achievements of India.

Unit-I

8 Hours

Basic features and problems of Indian Economy: Economic History of India; Nature of Indian Economy, demographic features and Human Development Index, Problems of Poverty & Inequality, Unemployment, Inflation, Black money in India.

Unit-II

7 Hours

Sectoral composition of Indian Economy: Issues in Agriculture sector in India, Agriculture policies of India, Industrial development, small scale and cottage industries, industrial Policy, Public sector in India, service sector in India.

Unit-III

8 Hours

Economic Policies: Economic Planning in India, NITI Aayog, monetary policy in India, Fiscal Policy in India, Centre-state Financial Relations.

Unit-IV

7 Hours

External sector in India: - India's foreign trade value composition and direction, India Balance of payment since 1991, FDI in India, Impact of Globalization on Indian Economy, WTO and India.

Transaction Mode: Lecture, discussion & case studies

Suggested Readings:

1. Dutt Rudder and K.P.M Sunderam (2017). *Indian Economy*. S Chand & Co. Ltd. New Delhi.
2. Mishra S.K & V.K Puri (2017). *Indian Economy and -Its Development Experience*. Himalaya Publishing House.

3. Singh, Ramesh, (2016): *Indian Economy*, Tata-McGraw Hill Publications, New Delhi.
4. Dhingra, I.C., (2017): *March of the Indian Economy*, Heed Publications Pvt. Ltd.,
5. Karam Singh Gill, (1978): *Evolution of the Indian Economy*, NCERT, New Delhi
6. Kaushik Basu (2007): *The Oxford Companion to Economics of India*, Oxford University Press.

Course Name: Agricultural Development and Management

Course Code: ECO.529

L	T	P	Cr
2	0	0	2

Learning Outcomes: On completion of this course, the students from different streams will be able to:

- Identify the factors influencing agricultural development in India,
- Assess the land reform policies, in India,
- Evaluate the efficiency of public distribution system in India, and
- Guide farmers in linking them with new market situations.

Unit-I

8 Hours

Agriculture Sector: Components; Its relative importance with other sectors; Features of Agriculture Sector in India; Focus on Agricultural Development after independence; Green Revolution: Factors responsible, positive and negative impacts.

Unit-II

7 Hours

Land Reforms, Agricultural Marketing: definition; types, problems; Agricultural Price Policy: Objectives, Minimum Support Price (MSP)

Unit-III

8 Hours

Public Distribution System (PDS): Evolution of Schemes, Functioning, Problems; Food Subsidy: Economic Costs and Central Issue Prices.

Unit-IV

7 Hours

Managing Agriculture: role of agri-business, linking farmers with new markets, diversifying agriculture.

Transaction Mode: Lecture, discussion & case studies

Suggested Readings:

1. Acharya, S.S. and Agarwal, N.L. (2012). *Agricultural Marketing in India*. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd.
2. Lekhi, R. K. And Singh, J. (2015). *Agricultural Economics: An Indian Perspective Ludhiana: Kalyani Publishers.*
3. Reddy, S.S., Ram, P.R, Sastry, T.V.N, Devi, I.B. (2015). *Agricultural Economics*. New Delhi, India: Oxford and IBH Publishing Co. Pvt. Ltd.
4. Soni, R. (2004). *Leading Issues in Agricultural Economics*, New Delhi: Vishal Publishing.

SEMESTER – III

Course Name: Basic Econometrics

Course Code: ECO.551

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Estimate linear regression model,
- Estimate dummy variable regression model,
- Carry out diagnostics of regression model, and
- Apply the basic principles and foundations of econometric theories.

Unit-I

15 Hours

Linear Regression Model: Problem of estimation-Meaning, Nature and Scope of Econometrics; Concepts of Population Regression Function and Sample Regression Function; Simple (two variable) Linear Regression Model: Assumptions, Estimation, Properties (Gauss-Markov Theorem (BLUE) and Consistency); Interval estimation and Testing of hypothesis of individual coefficients (t-statistics); overall significance of the model (F-statistics), Coefficient of Determination and Goodness of fit through R-square and Adjusted R-square, Predictions.

Unit-II

15 Hours

Extension of regression models- Multiple (K-variable) Linear Regression Model: Assumptions, Estimation, Properties (Gauss-Markov Theorem (BLUE) and Consistency); Extension of regression models: regression through origin, Scaling and units of measurement, and functional forms in regression models: log-linear, and semi-log models; Choice of functional forms (MDW test); Dummy variable models: Dummy variable trap, Introduction to Non-Linear Regression Models, Dummy variable Models - ANOVA and ANCOVA, Applications including seasonal analysis, and checking for structural stability.

Unit-III

15 Hours

Relaxation of Assumptions of CLRM-Multicollinearity: Meaning, nature, causes, consequences and remedial measures (Ridge Regression); Heteroscedasticity: Meaning, nature, causes, consequences and remedial measures (Methods of weighted least square and generalised least square regression); Autocorrelation: Meaning, nature, causes, consequences and remedial measures; Econometric Modelling: Model Specification and Diagnostic Testing.

Unit-IV

15 Hours

Basics of Time Series and Dynamics Models-Time series basic concepts: Stochastic Process (stationary and non-stationary process), Unit root process, Integrated Stochastic Process; Test of Stationarity: Graphical Analysis, and Unit root tests (Dickey-Fuller (DF) test, Augmented Dickey-Fuller (ADF) test, Phillips-Perron (PP) tests, Difference stationary and trend stationary process; Seasonality analysis; Dynamic Econometrics Models:

Autoregressive and Distributed lag models; Simultaneous Equation models: Structural and reduced form equations, Identification (Rank and Order conditions) and Estimation problems; Methods of estimation: ILS and 2SLS methods.

Transaction Mode: Lecture, problem solving, discussion & demonstration

Suggested Readings:

1. Brooks, C. (2014). *Introductory econometrics for finance*. Cambridge university press.
2. Baltagi, B. (2008). *Econometric analysis of panel data*. John Wiley & Sons.
3. Enders, W. (2008). *Applied econometric time series*. John Wiley & Sons.
4. Gujarati, D. (2014). *Econometrics by example*. Palgrave Macmillan.
5. Gujarati, D. N. & Sangeetha (2007). *Basic econometrics*, TMH
6. Gujarati, D. N., & Porter, D. (2009). *Basic Econometrics* Mc Graw-Hill International Edition.
7. Johnston, J. and Dinardo, J. (1996). *Econometric Methods*, McGraw-Hill/Irwin Publications
8. Nachane, D. M. (2006). *Econometrics: theoretical foundations and empirical perspectives*. OUP Catalogue.
9. Wooldridge, J. M. (2015). *Introductory econometrics: A modern approach*. Nelson Education.

Course Name: Public Economics
Course Code: ECO.552

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, students will be able to:

- Examine the role of Government in changing perspective,
- Assess the efficiency of tax system in India,
- Evaluate the annual Government budget in a country,
- Comprehend the economic functions of government in an economy.

Unit-I

16 Hours

Role of Government in Changing Perspective; Fiscal Functions of the Government; Classification of Goods: Public Expenditure: Meaning and Classification, Theories of Public Expenditure – Maximum Social Advantage, Normative and Positive Theories, Growth in Public Expenditure, Canons of Public Expenditure, Effects of Public Expenditure on Production, Distribution and economic growth, Criteria for evaluation of public investment projects – social cost-benefit analysis.

Unit-II

14 Hours

Public Revenue: Sources of Revenue, Taxation – characteristics of a good taxation system, Canons of taxation, direct vs. indirect taxes, principles of

taxation, effects of taxation, taxable capacity, impact and incidence of taxation; Tax structure in India and Recent Reforms - GST.

Unit-III

14 Hours

Public Debt: Sources of Public Debt, Burden of public debt – theories, effects of public debt, methods of debt redemption, Public Debt Management in India. Public Budget - Concept of public budget, types of public budget, theories of public budgeting.

Unit-IV

16 Hours

Federal Finance: principles and problems of Federal finance – centre-state financial relations, 14th Finance Commission; Fiscal Policy: meaning and objective, fiscal multipliers, compensatory fiscal policy, functional finance approach, fiscal policy for inflation, full employment and economic growth.

Transaction Mode: Lecture, case studies, discussion

Suggested Readings:

1. Backhaus, J. G. & Wagner, R. E. (2004): Handbook of Public Finance, Springer, US.
2. Bhatia, A. K. (2013): Public Economics, Wisdom Press, India.
3. Choudhary, R. K. (2014): Public Finance and Fiscal Policy, Kalyani Publishers, New Delhi
4. Dalton, H. (1922): Principles of Public Finance, Allied Publishers, Reprinted by Routledge (2009).
5. Garg, R. & Garg, S. (2017): Handbook of GST in India, Bloomsbury India Professional.
6. Gupta, J. R. (2011): Public Economics in India: Theory and Practice, Atlantic Publishers.
7. Jha, Raghendra (2010): Modern Theory of Public Finance, New Age International Pvt. Ltd. India
8. Musgrave, R. A. (1959): The Theory of Public Finance, MG-Hill Publication, New York (Available in National Digital Library for Free Download)

Course Name: Research Methods in Economics

Course Code: ECO.553

L	T	P	Cr
4	0	0	4

Learning Outcomes: On completion of this course, the students will be able to:

- Identify an appropriate research problem,
- Formulate the research hypotheses,
- Craft out a feasible research design,
- Carry out data collection, analysis and interpretation, and
- Prepare a research report.

Unit-I**15 Hours**

Introduction to Research, Meaning and Types of Research, Steps in Research Process, Identification and Defining the Research Problem, Setting Objectives, Formulation of Research Hypothesis. Research Design, its Nature and Classification, Concept of Literature Review and its role in research

Unit-II**15 Hours**

Sources Data: Primary and Secondary, Methods of Primary Data Collection, Secondary Data Sources – India and abroad, Tools of primary data collection. Classification, Tabulation, Presentation, Analysis-Descriptive and Inferential

Unit-III**15 Hours**

Qualitative, Quantitative and Mixed Methods of Data Analysis and Interpretation of Results; Report Writing: Types of reports, Steps in report writing, Citation Styles, Bibliography and Appendix

Unit-IV**15 Hours**

Use of Computer in Research: Use of MS word, Excel, power point, Research Ethics and dealing with plagiarism/similarity in research report writing.

Transaction Mode: Lecture, problem solving, discussion & demonstration

Suggested Readings:

1. Bruce, B. and Howard, L. (2014). Qualitative Research Methods for the social sciences, London: Pearson.
2. Flick, U. (2014). An introduction to qualitative research. Sage Publications.
3. Flick, U. (2015). Introducing research methodology: A beginner's guide to doing a research project. Sage.
4. Gregory, I. (2005). Ethics in research. London: Continuum.
5. Gupta, S.L. and Gupta, H. (2011). Research Methodology: Texts and Cases with SPSS. Delhi: International Book House.
6. Guthrie, G. (2010). Basic research methods: An entry to social science research. SAGE Publications India.
7. Kothari, C.R. and Garg, G. (2014). Research Methodology: Methods and Techniques, New Age.
8. Neuman, W.L. (2014). Social Research Methods: Qualitative and Quantitative Approaches, 7th Edition, Pearson New International Edition
9. Schwartz, S. (2012). Microsoft Office 2010, New Delhi: Pearson.
10. Sjoberg, G., and Nett, R. (2014). A methodology for social research. Jaipur: Rawat Publications.
11. Stokes, P. and Wall, T. (2014). Research Methods, Plaggrave Publication.

Course Name: Seminar-III
Course Code: ECO.543

L	T	P	Cr
0	0	0	1

Learning Outcome: On completion of this course, students will be competent in writing and presentation skills. Also, they will be capable to debate on contemporary issues.

General Outline of Activities:

1. The course coordinator should make the students learn how to prepare seminar report as well as seminar presentations on a given topic.
2. The preparation of seminar report on a given topic should be made referring to the literature available in the form of text/reference books, journals, periodicals, magazines, news paper articles, and web resources.
3. The students should be encouraged to visit the library as well as computer centre of the University for preparing seminar reports and its power point presentation.
4. As far as possible the topic of the seminar should relate to current developments in the field.
5. The seminar report and its presentation should be evaluated by a duly constituted Department level committee.

Evaluation Criteria:

- (i) Seminar is to be evaluated from 100 Marks – 50 Marks for Seminar Report and 50 marks for oral presentation.
- (ii) Evaluation of the Seminar Report should consist of introduction (10 marks), the issue (10 marks), discussion (10 marks), concluding remark (10 marks), and references (10 marks).
- (iii) Evaluation of the Oral presentation should consists of ppt design (10 marks), presentation skill (20 marks), and discussion skill (20 marks).

Course Name: Project
Course Code: ECO.599

L	T	P	Cr
0	0	0	6

Learning Outcome: On completion of the project work, the students will be capable to formulate research problems, objectives, hypotheses and also will be able to collect data for analyses, and interpretation.

General Outlines:

1. Each student should be assigned a project supervisor from the faculty members of the concerned centre, preferably on the basis of the students' preferences.
2. The topic of project report should be decided by the supervisor taking into account the area of interest of the student. As far as possible the

topic should address the current issues / developments in the field. Preferably, the project work may be based on primary data collected through field survey/visit.

3. Standard norms for the preparation of a research project report may be followed – introduction, brief background, relevance of the topic, literature review, problem statement, objectives, hypotheses, sample design, data nature and sources, tools and techniques of data collection, data presentation, analysis, and interpretation, findings and conclusion.
4. The project outcomes may be reported in the following form: Chapter-1: Introduction & Review of Literature; Chapter-2: Research Methodology; Chapter-3: Conceptual & Theoretical Description; Chapter-4: Analysis and Interpretations; Chapter-5: Conclusion, Suggestions & Scope for further research; References, Annexure, etc. The students are required to complete the project report upto Chapter-3 in the third semester.
5. APA 6th edition style sheet may be followed for preparing in-text citations, foot notes, end notes, references and bibliography.
6. The project outcomes will be evaluated as per the following criteria:
(i) project reports, (ii) seminar presentation & (iii) viva-voce examination by a duly constituted committee by the appropriate authority.
7. This is to be evaluated as ‘Satisfactory (S)’ or ‘Unsatisfactory (US)’.

Course Name: Data Analysis Using Excel

Course Code: ECO.503

L	T	P	Cr
0	0	2	1

Learning Outcome: On completion of this course, the students will be able to:

- Use MS excel in data entry,
- Use MS excel in constructing tables and figures,
- Use MS excel in performing statistical tests, and
- Use MS excel in estimating regression model.

Unit-I:

4 Hours

Introduction to MS Excel; Creating a new data file (entering survey data); Insert Footnote, Citation and Caption, Formula Function; Pivot table and What if analysis.

Unit-II:

4 Hours

Descriptive Analysis of Data: Descriptive statistics for two or more variables; Creating and editing charts for two or more variables; Random Number Generation.

Unit-III:

4 Hours

Inferential statistics for the mean and the median; t-test; z-test, F-test, Chi-Square Test; ANOVA.

Unit-IV:**3 Hours**

Correlation and Regression Analysis: Computation of Pearson's and Spearman's rank correlation coefficient, Simple Linear regression model and multiple regression models.

Transaction Mode: Lecture, tutorial, discussion & demonstration

Suggested Readings

1. Etheridge, D. (2018): *Excel Data Analysis*. Visual Publications
2. McFedries, P. (2018). *Excel Data Analysis for Dummies*, 4th ed. Wiley.
3. Sah, A. N., (2013): *Statistics for Management Using MS Excel*, I K International Publishing House Pvt. Ltd
4. Sah, A. N. (2009). *Data Analysis Using Excel*, Excel Books Publications

Course Name: Punjab Economy

Course Code: ECO.554

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, the students will be able to:

- Describe the basic problems of Punjab economy,
- Evaluate the economic policies in Punjab,
- Comprehend the role of various sectors in the development of Punjab, and
- Make an outline the future prospects of Punjab economy.

Unit-I**15 Hours**

Regional Economics: Structural Changes in Punjab Economy, Concept, Scope and Framework; Regional Economic Problems; Location Factors; Different Approaches to Study Regional Economics; Location of Places and their Problems; Nature of Regions and Relation of Activities within a Region; Regional Policy and objectives; farm and non-farm employment.

Unit-II**15 Hours**

Agriculture in Punjab: structure of agriculture in Punjab, Growth and Productivity; Green Revolution; Progress, Performance and Implications; Agricultural Diversification: Rationale, Constraints and Prospects; Dairy Farming and Other Allied Activities; Agriculture Credit and Marketing; W.T.O. and Punjab Agriculture; Agrarian crisis-nature, effects and measures, Land Reforms in Punjab.

Unit-III**15 Hours**

Industry in Punjab: Structure of Industry in Punjab, MSME- Role, Problem and Future Prospects; State and Industrial Development; Agro-based Industries – Nature, growth, problem, and prospects; Service Sector in Punjab: Nature, growth, problem, and prospects.

Unit-IV**15 Hours**

Social Sector in Punjab: Education, Health, Sanitation and Water Supply, Social Security, Employment, Migration, and Welfare Schemes; Banking and Finance – Nature, growth, problems and prospects.

Transaction Mode: Lecture, case study, discussion

Suggested Readings:

1. Bawa R. S., P. S. Raikhy & Dhindsa, P. (2001). *Globalization and Punjab Economy. India: Punjab School of Economics, (DRS-UGC), Guru Nanak Dev University.*
2. Bawa, R. S. & Raikhy, P. S. (2000). *Punjab Economy: Emerging Issues. India: South Asia Books G.N.D.U.*
3. Chadha, G. K. (1986): *The State and Rural Transformation: The Case of Punjab, 1950-85, Sage Publication.*
4. Deshpande, R. S. & Arora, S. (2010). *Agrarian Crisis and Farmer Suicides.* New Delhi: SAGE Publications India Private Limited.
5. Dhesi, A. S. and Singh, G. (2007): *Rural Development in Punjab: A Success Story Going Astray, Routledge*
6. Dutt, P. S. and Gill, S.S. (1995): *Land Reform in India: Intervention for Agrarian Capitalist Transformation in Punjab and Haryana, Sage Publication*
7. Hoover, F.M. (2010). *An Introduction to Regional Economics.* Ryerson: McGraw-Hill.
8. Johar, R.S. & Khanna, J. S. (1983). *Studies in Punjab Economy.* Guru Nanak Dev University.
9. Kaur, Paramjit (2013): *Punjab Economy: Performance and Prospects, Regal Publisher*
10. Singh, L. and Singh, N. (2016). *Economic Transformation of a Developing Economy: The Experience of Punjab, India, Springer*
11. Singh, L. & Bhangoo, K.S. and Sharma, R. (2016). *Agrarian Distress and Farmer Suicides in North India, Routledge India*
12. Singh, I., Singh, S. and Singh, L. (2014): *Punjab's Economic Development in the Era of Globalization, L G Publishers*

Course Name: Political Economy of Development

Course Code: ECO.555

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, the students will be able to:

- Develop understanding of philosophical approaches to political economy,
- Develop the ability of analysing Marxian political economy,
- Develop ability of conceptualization of imperialism and neo-colonialism, and
- Develop ability to analyse transition to socialism

Unit-I**15 Hours**

Introduction to Political Economy; Idealism and materialism; Metaphysics and dialectics; Laws of dialectics; Categories of philosophy; Theory of cognition; Dialectical and Historical Materialism; Mode of production; Social super-structure and its elements; Dialectical interaction of base and superstructure; Historical social-economic formations; and Asiatic mode of production.

Unit-II**15 Hours**

Marxian Political Economy; Analysis of capitalism; Development of capitalism in agriculture; Nature and process of planning; Market mechanism; Methods of accumulation; and Primitive socialist and capitalist methods.

Unit-III**15 Hours**

Conceptualization of Imperialism: Emergence of monopoly capitalism and imperialism; Role of banks in monopoly capitalism; Imperialism; Imperialism and the state; Concept of neo-colonialism; Colonialism and Neo-Colonialism; Forces against neo-colonialism and imperialism.

Unit-IV**15 Hours**

Transition to Socialism; Transition period; Problems and policies; Nature of state; Role of Planning; Market mechanism; Distribution of income and wages; and Strategies for third world development.

Transaction Mode: Lecture, case study, discussion

Suggested Readings:

1. Dobb, M. (2012). *Russian Economic Development since the Revolution*. London: Routledge Publications.
2. Mandel, E. (1999). *Late Capitalism*. London: Verso Publication.
3. Maurice, C. (2015). *Diametrical Materialism: An Introduction*. Aakar Books Publishers.
4. Petras, J. F. and Veltmeyer, H. (2001). *Globalization Unmasked: Imperialism in the 21st Century*. Canada: Fernwood Publication.
5. Preobrazhensky, E. A. (1965). *The New Economics*. London: Oxford University Press. (Open Online Access)
6. Ravenhill, J. (2016). *Global Political Economy*. Oxford: Oxford University Press.
7. Schumpeter, J. A. (2013). *Theory of Economic Development of Capitalism, Socialism and Democracy (2nd Ed.)*. Wilder Publication, Inc.
8. Sweezy, P. M. (1991). *The Theory of Capitalist Development (1st Ed.)*. New Delhi: K. P. Bagchi and Co.
9. Varoufakis, Y., Theocarakis, N., and Halevi, J. (2012). *Modern Political Economics: Making Sense of the Post-2008 World (2nd Ed.)*. Oxford: Taylor & Francis Publications.
10. Wilczynski, J. (1982). *The Economics of Socialism (1st Ed.)*. New Delhi: S. Chand & Co. Ltd.

Course Name: Environmental Economics
Course Code: ECO.556

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, the students will be able to:

- Develop linkages between environment and economic development,
- Explicate the theories of environmental economics,
- Prepare environmental accounting, and
- Focus on global and regional environmental issues.

Unit-I

15 Hours

Environment and Development: Economics and the Environment, Evolution and Growth of Environmental Economics, Relation between Environment and Growth, Environmental Kuznets hypothesis.

Unit-II

15 Hours

Basic Concepts and Theories: Public Goods and Externalities, Common Property Resources, resource degradation and market efficiency. Coase theorem, social cost-benefit analysis, cost effective analysis for environment protection, Environmental Good's Demand and its Revealed Preference Methods.

Unit-III

15 Hours

Environmental Valuation, Accounting and Management: Types of environmental values, Evolution of Environmental Accounting, Features of Integrated Environmental and Economic Accounting, Degradation of land, water resources and forests; Alternative Energy Sources and Environment.

Unit-IV

15 Hours

Global and Regional Issues: Poverty, population and environment, global agreements on environment, political economy of sustainable development, Environment under WTO regime. Mechanism for environment regulation in India, environmental laws and their implementation, Policy instruments for controlling pollution environmental standards, forestry policy. Water Depletion vs. Water Logging, Use of Chemicals in Agriculture and Pollution; Agroforestry as an option for Diversification in Punjab.

Transaction Mode: Lecture, case study, discussion

Suggested Readings:

1. Kolstad, C.D. (2011). Intermediate Environmental Economics. New Delhi: Oxford University Press.
2. Singh, Katar and Shishodia, Anil (2007). Environmental Economics: Theory and Applications. New Delhi: Sage Publications.
3. Berck, P. (2015). The Economics of the Environment. New Delhi: Pearson India.
4. Kumar, Pushpam(2009). Economics of the Environment and Development. New Delhi: Ane Book

5. Muthukrishna, S(2010). Economics of Environment. New Delhi: Phi learning Pvt. Ltd.

SEMESTER – IV

Course Name: Indian Economy

Course Code: ECO.571

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, the students will be able to:

- Elucidate the pattern and structure of Indian economy,
- Focus on issues, challenges and policy responses in India,
- Describe the role of infrastructure development in India, and
- Assess the centre-state financial relations in India.

Unit-I

15 Hours

Economic Growth in India – Pattern and Structure; Agriculture – Pattern & structure of growth, major challenges, policy responses; Industry - Pattern & structure of growth, major challenges, policy responses; Services - Pattern & structure of growth, major challenges, policy responses;

Unit-II

15 Hours

Rural Development – Issues, Challenges and Policy Responses; Urban Development – Issues, Challenges and Policy Responses; Poverty, Inequality and Unemployment; Reforms in Land, Labour and Capital Markets.

Unit-III

15 Hours

Infrastructure development – physical and social; public-private partnerships; Natural Resources; Foreign capital in India; and Foreign Direct and Portfolio Investments.

Unit-IV

15 Hours

Centre-State Financial Relations and Finance Commissions of India; FRBM; Foreign Trade in Goods and Services; Balance of Payment; WTO and Indian Economy; Restrictions on Monopolies and Concentration of economic power; Competition Act 2002; Regional imbalances; Trends in migration; Economic Development and Environment Degradation; SHGs and Women empowerment.

Transaction Mode: Lecture, case study, discussion

Suggested Readings:

1. Banik,N. (2015). *The Indian Economy: A Macroeconomic Perspective*. Sage Publication.
2. Datt, G., and Majajan, A. (2019). *Indian Economy*. New Delhi: S. Chand and Co.

3. Kapila, U. (2011). *Indian Economy: Performance and Policies*. Academic Foundation, India.
4. Singh, R. (2017). *Indian Economy*. New Delhi: Tata McGraw-Hill Education.
5. Verma, S. (2017). *The Indian Economy*. Unique Publishers, India.

Course Name: Advanced Econometric Theory and Applications
Course Code: ECO.572

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, the students will be able to:

- Enhance the knowledge of advanced econometric modelling,
- Build up software skills in data analysis, and
- Use econometric tools and techniques in economic research.

Unit-I **15 Hours**

Time Series Econometric Modelling - Approaches to time Series Forecasting; Univariate Time series modelling: AR, MA, ARMA and ARIMA models; Box-Jenkin Methodology; Multi-variate Time series modelling: OLS, Spurious Regression, Co-integration, Causality analysis (Granger and Sim); Granger representation theorem; Vector Auto-regression (VAR) and Vector Error Correction Models (VECM); Volatility modelling: ARCH and GARCH models.

Unit-II **15 Hours**

Limited Dependent variable Models - Nature of qualitative response Models; Linear Probability Model and its applications; Bivariate and Multinomial Logit and Probit Models: Assumptions, Estimation (grouped and un-grouped models), interpretations and applications; Tobit model: Assumptions, Estimation, interpretations and applications; Conditional logit and probit models; Instrumental variable logit and probit models and their applications. Introduction to quintile regression.

Unit-III **15 Hours**

Panel data modelling - Basics of panel data analysis and Panel Unit root tests; Estimation of panel data regression models: Pooled regression method, fixed effect Approach, and Random effect models; Dynamic Panel data modelling; Panel co-integration, Panel Vector Auto-regression (VAR) and Panel Vector Error Correction Models (VECM), Fully Modified Ordinary Least Square (FMOLS) regression, Dynamic OLS models; Limited dependent variable models using Panel data.

Unit-IV **15 Hours**

Applications - Introduction to E-views, STATA and R; Time series econometric modelling using E-views; Estimation of Limited Dependent

Variable Models using STATA; Panel Data Modelling using E-views, STATA and R.

Transaction Mode: Lecture, tutorial, problem solving, discussion & demonstration

Suggested Readings:

1. Baltagi, B. (2008). *Econometric analysis of panel data*. John Wiley & Sons.
2. Brooks, C. (2014). *Introductory econometrics for finance*. Cambridge university press.
3. Cameron, A. C., & Trivedi, P. K. (2010). *Microeconometrics using stata* (Vol. 2). College Station, TX: Stata press.
4. Enders, W. (2008). *Applied econometric time series*. John Wiley & Sons.
5. Gujarati, D. (2014). *Econometrics by example*. Palgrave Macmillan.
6. Gujarati, D. N. & Sangeetha (2007). *Basic econometrics, 4e*, 304-331.
7. Hall, R., Lilien, D., Sueyoshi, G., Engle, R., Johnston, J., & Ellsworth, S. (1999). EViews manual. *Quantitative Micro Software Inc*, 312.
8. Hsiao, C. (2014). *Analysis of panel data* (No. 54). Cambridge university press.
9. Kawakatsu, H. (1998). *A computer handbook using EViews: to accompany Econometric models and economic forecasts, Pindyck and Rubinfeld*. McGraw-Hill College.
10. Long, J. S., & Freese, J. (2006). *Regression models for categorical dependent variables using Stata*. Stata press.
11. Madala, G. S. (1968). *Limited Dependent and Qualitative Variables in Econometrics*. Cambridge: Cambridge University Press
12. Madala, G. S. (2009). *Introduction to Econometric*.
13. Stata, A. (2015). *Stata Base Reference Manual Release 14*.
14. Venables, W. N., Smith, D. M., & R Development Core Team. (2004). *An introduction to R*.
15. Wooldridge, J. (2009). *Advanced panel data methods. Introductory econometrics: a modern approach. Mason: South-Western Cengage Learning*, 489.
16. Wooldridge, J. (2009). *Instrumental variables estimation and two stage least squares. Introductory Econometrics: A Modern Approach. Nashville, TN: South-Western*.
17. Wooldridge, J. M. (2010). *Econometric analysis of cross section and panel data*. MIT press.
18. Zucchini, W., MacDonald, I. L., & Langrock, R. (2016). *Hidden Markov models for time series: an introduction using R* (Vol.150). CRC press.

Course Name: International Trade and Investment
Course Code: ECO.573

L	T	P	Cr
4	0	0	4

Learning Outcome: On completion of this course, the students will be able to:

- Comprehend the theories of international trade,
- Identify the emerging patterns of international trade,
- Examine the prospects of regional integration, and
- Elucidate the role of international investment.

Unit-I

15 Hours

Conceptualization of Trade: Classical, Neo Classical and New Theories of trade, Terms of trade, Prebisch and Singer views on terms of trade, Environmental and Social issues of trade.

Unit-II

15 Hours

Emerging Pattern of Trade: Classification of Trade in Services, High Technology Products, Trade in Climate Smart Goods, Changing nature of trade in emerging economies, Trade between developed vs. developing economies. Role of Global Value Chain in Trade

Unit-III

15 Hours

Regional Integration: North- North, South- South and North-South. EU, ASEAN, NAFTA, SAARC, BIMSTEC, RCEP, BRICS, Brexit and India, USA-China Trade War.

Unit-IV

15 Hours

Investment and Development: Portfolio and Direct Foreign Investment; determination of direct foreign investment; multinational corporations, Relation between FDI and R&D, Export, Contribution of Various Nobel Laureates in International economics - Joseph E. Stiglitz & Paul Krugman; India's EXIM and FDI policy .

Transaction Mode: Lecture, case study, discussion

Suggested Readings:

1. Alex, E. F. Jilberto, and Andre M. (1998). *Regionalization and Globalization in the Modern World Economy: Perspectives on the Third World and Transitional Economies*, Routledge.
2. Baldwin, R. and Philippe M., (1999). *Two Waves of Globalisation: Superficial Similarities, Fundamental Differences*, NBER working paper No. 6904.
3. Bank, W. (2008). World Integrated Trade Solution (WITS) Database.
4. Bhagwati, J.N., (Jan. 2007). *In Defence of Globalization*, Oxford University Press.
5. Bhagwati, J.N.,(1998).*International Trade: Selected Readings*, McMillan University Press.

6. Bhatia, S.K. 2017). *Brexit and India: Analyzing the Implication* (Eds.), New Delhi Publishers.
7. Chacholiades, M. (2006). *Pure theory of International Trade*, Published by Aldine Transaction; Revised edition.
8. Clement, R. L. and Rothwell, K.J., (1967). *Theoretical Issues in International Economics*, Constellate and Company Ltd.
9. Cole, Matthew and Robert J. R. E., (2003). *Do Environmental Regulations Influence Trade Patterns: Testing Old and New Trade Theories*, *The World Economy*: 1163-86.
10. Copeland, B. and S. Taylor., (1994). *North-South trade and the Environment*, *Quartely Journal of Economics*, 755-787.
11. Copeland, B. and S. Taylor., (1995). *Trade and Tran boundary Pollution*, *American Economic Review*, 716-737.
12. Copeland, B., S. Taylor, and W. Antweiler., (2001). *Is Free Trade Good for the Environment?* *American Economic Review*, 877-908.
13. Corden, W. M. (1971). *The Theory of Protection*. Oxford: Clarendon Press.
14. Daniels ,Joseph, P. and David, V. H., (2011). *Global Economic Issues and Policies*, Routledge publications.
15. Das, R. U. (2011). Regional Trade-FDI-Poverty Alleviation Linkages :Some Analytical and Empirical Explorations. *Regional Integration, Economic Development and Global Governance*, 149.
16. Debroy, B. (2005) *WTO at Ten: Looking Back To Look Beyond - Development Through Trade*(Volume 1) (2 Volume Set), Konark Publishers.
17. Debroy, B. (2006) *The Trade Game: Negotiation Trends at WTO and Concerns of Developing Countries*, *Published by Academic Foundation*.
18. Edward, E. Learner (1985) *Sources of International Comparative Advantages: Theory and Evidence*, *Published by the MIT Press*.
19. Feenstra, R., (2004). *Advanced International Trade, Theory and Evidence*, Princeton University Press.
20. Findlay, R. (1970). *Trade and specialization* (chapters 5 & 6). Penguin.
21. Grant, L. R. (1973). *Private Foreign Investment in Development*. Oxford: Oxford University Press.
22. H. Kierzkowski., (1984). *Monopolistic Competition and International Trade*, Clarendon Press, Oxford Press, UK.
23. Haberler, G. (1988). *International trade and economic development* (No. 1). Ics Pr.
24. Choi (2000). *Handbook of International Economics* (1st Edition), Volume 1, 2, 3 & 4. New Delhi, ND: Elsevier publications.
25. Harry, P. Bowen and A. Hollander, and Jean MaveViane (2012), *Applied International Trade Analysis*, *Published by Palgrave Macmillan*.
26. Helpman, H. and P. Krugman., (1985). *Market Structure and Foreign Trade*, Cambridge, MIT Press
27. Herrick, B. and Kindleberger, C.P. (1985), *Economic Development* , Fourth edition , McGraw-Hill International Book Company, Singapore

28. James, C. and Robert M., (2004). *International Economics*, John Wiley & Sons. Inc., Dunn, Jr
29. Jones, R.W. and Kenen, P.B., (2003). *Handbook of International Economics*, Volumes-I, II and III, Elsevier Amsterdam.
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32. Nocke, V. and S. Yeaple. (2008). *Globalization and the Size Distribution of Multiproduct Firms*, Mimeo.
33. P. Krugman, and Helpman, E. (1989). *Trade Policy and Market Structure.*, Cambridge, MIT Press.
34. Prakash, J. V., Nauriyal, D. K., & Kaur, S. (2017). Assessing Financial Integration of BRICS Equity Markets: An Empirical Analysis. *Emerging Economy Studies*, 3(2), 127-138.
35. RIS, South Asia Trade and Development Report, Various Issues.
36. Robert. C. Feenstra, (2004) *Advanced International Trade, Theory and Evidence*, Published by Princeton University Press.
37. Robert. C. Feenstra, and Alan, M. Taylor, (2011) *International Economics*, Worth Publishers; *Second Edition edition*.
38. Sailors, J. W., Qureshi, U. A., and Cross, E. M. (1973). Empirical Verification of Linder's Trade Thesis. *Southern Economic Journal*, 262-268.
39. Salvatore, D. (2013). *International Economics* (11th Edition). USA: Wiley.
40. Sandeep, K. (2015). Migration and Bilateral Trade Flows: Evidence From India And Oecd Countries. *Applied Econometrics and International Development*, 15(2), 179-196.
41. Saon, Roy and Smita Miglani and Neha Malik (2014). *Impact of American Investment in India: A Socioeconomic Assessment Published by Academic Foundation*.
42. Singh, K., & Kaur, B. S. (2017). Whether FDI or Exports Enhance Innovation: Evidence From Indian Manufacturing Firms, 2001-2012. *Revista Galega de Economía*, 26(3), 19-32.
43. Stevens, Candice., (1993). *The Environmental Effects of Trade*, *The World Economy*, 16(4): 439-451.
44. UNCTAD, Trade and Development, Various Issues.

Course Name: Rural Economics

Course Code: ECO.574

L	T	P	Cr
4	0	0	4

Learning Outcomes: On completion of this course, the students will be able to:

- learn about transformation in rural economies,
- Appraise the development of rural economies,
- Assess the effectiveness of policies for rural development, and
- Know the role played by rural innovations in transforming rural societies.

Unit-I**15 Hours**

Rural Economy: rural social structure; rural dynamics: structural transformations; response to changing Agrarian Economy; Rural Farm and Non-Farm Sector: Employment and Barriers; Rural Employment Generation Programmes: NRLM, MGNREGA; Rural Development Policies.

Unit-II**15 Hours**

Approaches to understand rural development: Rapid Rural Appraisal (RRA) and Participatory Rural Appraisal (PRA); Sustainable Rural development, Technology for rural growth: ICT, mobile, successful programmes; Business Markets for village economy.

Unit-III**15 Hours**

Planning for Rural Development: levels, functions, decentralization, methodology of micro-level planning, for block and district level planning; Organizations for rural development: criteria, government organisations, PRIs, Cooperatives, Voluntary Agencies/NGOs, Corporations; Community Capacity Building, Common Property Resources.

Unit-IV**15 Hours**

Rural Entrepreneurship: role, programmes, role of institutions, Agripreneurship; Rural Innovations; Micro-Finance Institutions (MFIs): role of MFIs, Self Help Groups; Micro, Small and Medium Enterprises in Rural India; Rural and micro Insurance; Rural Industrialization

Transaction Mode: Lecture, case study, discussion

Suggested Readings:

1. Churchill, Craig (2006). Protecting the poor: A micro insurance compendium, International Labour Office, Geneva.
2. Government of India (n.d.) MSME at a Glance, Ministry of Micro, Small and Medium Enterprises. 3. IDFC Rural Development Network (2013). India Rural Development Report 2012/13. Delhi: Orient Black Swan.
3. Jodhka, S.S. (2012). Village Society, Orient BlackSwan.
4. Jodhka, S.S. (2018). A Handbook of Rural India (Readings on the Economy, Polity and Society), Orient BlackSwan.
5. Lazaro, E., Agergaard, J., Larsen, M. N., Makindara, J., & Birch-Thomsen, T. (2018). Urbanisation in Rural Regions: The Emergence of Urban Centres in Tanzania. The European Journal of Development Research, 1-23.
6. Mukherjee, A., (2004). Participatory rural appraisal: methods and applications in rural planning: essays in honour of Robert Chambers (Vol. 5). Concept Publishing Company.
7. Narula, U. (2010). Dynamics of Indian Rural Economy: Growth Perspective, Atlantic Publishers, New Delhi.
8. Parthasarathy, G. (2003). Economic Reforms and Rural Development in India. Academic Foundation.

9. Reddy, K. V. (2012). Agriculture and Rural Development, Himalaya Publishing House.
10. Schaeffer, P.V. and Loveridge, S. (2000). Small Town and Rural Economic Development: A case studies Approach, Praeger Publisher.
11. Singh, B.M. and Namboodiri, KVN (2007). Unleashing Rural Entrepreneurship, ICFAI University Press, Hyderabad.
12. Singh, K. (2009). Rural Development: Principles, Policies and Management, Sage Publications.

Course Name: Seminar-IV

Course Code: ECO.544

L	T	P	Cr
0	0	0	1

Learning Outcome: On completion of this course, students will be competent in writing and presentation skills. Also, they will be capable to debate on contemporary issues.

General Outline of Activities:

1. The course coordinator should make the students learn how to prepare seminar report as well as seminar presentations on a given topic.
2. The preparation of seminar report on a given topic should be made referring to the literature available in the form of text/reference books, journals, periodicals, magazines, news paper articles, and web resources.
3. The students should be encouraged to visit the library as well as computer centre of the University for preparing seminar reports and its power point presentation.
4. As far as possible the topic of the seminar should relate to current developments in the field.
5. The seminar report and its presentation should be evaluated by a duly constituted Department level committee.

Evaluation Criteria:

- (i) Seminar is to be evaluated from 100 Marks – 50 Marks for Seminar Report and 50 marks for oral presentation.
- (ii) Evaluation of the Seminar Report should consist of introduction (10 marks), the issue (10 marks), discussion (10 marks), concluding remark (10 marks), and references (10 marks).
- (iii) Evaluation of the Oral presentation should consists of ppt design (10 marks), presentation skill (20 marks), and discussion skill (20 marks).

Course Name: Project
Course Code: ECO.599

L	T	P	Cr
0	0	0	6

Learning Outcome: On completion of the project work, the students will be capable to formulate research problems, objectives, hypotheses and also will be able to collect data for analyses, and interpretation.

General Outlines:

1. Each student should be assigned a project supervisor from the faculty members of the concerned centre, preferably on the basis of the students' preferences.
2. The topic of project report should be decided by the supervisor taking into account the area of interest of the student. As far as possible the topic should address the current issues / developments in the field.
3. Standard norms for the preparation of a research project report may be followed – introduction, brief background, relevance of the topic, literature review, problem statement, objectives, hypotheses, sample design, data nature and sources, tools and techniques of data collection, data presentation, analysis, and interpretation, findings and conclusion.
4. The project outcomes may be reported in the following form: Chapter-1: Introduction & Review of Literature; Chapter-2: Research Methodology; Chapter-3: Conceptual & Theoretical Description; Chapter-4: Analysis and Interpretations; Chapter-5: Conclusion, Suggestions & Scope for further research; References, Annexure, etc.
5. APA 6th edition style sheet may be followed for preparing in-text citations, foot notes, end notes, references and bibliography.
6. The project outcomes will be evaluated as per the following criteria:
(i) project reports, (ii) seminar presentation & (iii) viva-voce examination by a duly constituted committee by the appropriate authority.
7. This is to be evaluated as 'Satisfactory (S)' or 'Unsatisfactory (US)'.

Course Name: Practices of Economics-I
Course Code: ECO.575

L	T	P	Cr
2	0	0	2

Learning Outcome: On completion of this course, the students will be able to:

- Develop the logical reasoning ability,
- Develop the analytical skill, and
- Compete for National level competitive examinations in the field of economics

Unit-I: Quantitative Methods:**8 Hours**

Central tendency, dispersion, skewness, kurtosis, correlation, regression, index number, time series analysis, theory of probability and probability distribution; sampling techniques/methods and sampling errors, statistical inferences – hypothesis testing, Application of differential and integral calculus, Linear algebra, static optimization, Input-output model, linear programming and Game theory; difference and differential equations with applications.

Unit-II: Microeconomic Analysis:**7 Hours**

Theory of Consumer behaviour; theory of production and costs; decision making under uncertainty; pricing and output under different forms of market structure; Game theory, factor pricing analysis; elements of general equilibrium, efficiency criteria, welfare economics, and asymmetric information.

Unit-III: Macroeconomic Analysis:**8 Hours**

National income, Theories, Models and Approaches of determination of output and employment, demand and supply of money, Phillips curve analysis, business cycle theories, demand for and supply of money, Macroeconomic equilibrium and macroeconomic policies; rational expectation hypothesis.

Unit-IV: Economic Growth and Development:**7 Hours**

Growth and Development, Theories and Models of economic growth and development, agriculture, industry, technology and international trade as engines of economic growth; technical progress, indicators of development, poverty and inequality, social sector development.

Transaction Mode: Lecture, tutorial, problem solving & discussion

Suggested Readings

1. Schaum's outline of introduction to probability and statistics, McGraw-Hill Education, 2011
2. Schaum's outline of introduction to mathematical economics, McGraw-Hill Education, 2011
3. Schaum's outline of mathematical methods for business and economics, McGraw-Hill Education, 2009
4. Schaum's outline of statistics and econometrics, McGraw-Hill Education, 2011
5. Schaum's outline of principles of economics, McGraw-Hill Education, 2011
6. Schaum's outline of microeconomics, McGraw-Hill Education, 2011
7. Schaum's outline of macroeconomics, McGraw-Hill Education, 1997
8. Schaum's outline of international economics, McGraw-Hill Education, 1995
9. Schaum's Outline of Theory and Problems of Development Economics, McGraw-Hill Education, 2001

Course Name: Practices of Economics-II

L	T	P	Cr
2	0	0	2

Course Code: ECO.576

Learning Outcome: On completion of this course, the students will be able to:

- Develop the logical reasoning ability,
- Develop the analytical skill, and
- Compete for National level competitive examinations in the field of economics

Unit-I: International Economics: 8 Hours

Theories, model and approaches of international trade; terms of trade, balance of payments, theories of regionalism at global level, trade policy and reforms; exchange rate and foreign exchange market; gains from trade; trade barriers; GATT, WTO, IMF & World Bank.

Unit-II: Money, Banking and Public Finance: 7 Hours

Money Supply, Central Bank, Commercial Banking, Monetary Policy, NBFIs, Capital market; Role of Govt, Market failure, Regulation of market, Fiscal functions of Govt, The public budgets, public expenditure, revenue, debt, public budget, fiscal federalism, and fiscal policy.

Unit-III: Indian Economy: 7 Hours

Economic growth in India, agriculture, industry, services, public finance, foreign trade, rural development, urban development, foreign trade, infrastructure development, economic reforms, economic policies, poverty, inequality and unemployment, money and capital markets; environment and sustainable development.

Unit-IV: Agriculture, Industry, Demography and Environment: 8 Hours

Land Reforms, Green revolution, technological aspects, capital formation, regional disparities in agriculture, strategies for rural development; interrelationship between agriculture and industry, Pattern of industrialization, theories of industrial location, industrial productivity, industrial finance, industrial labour; interrelationship between population, development and environment; Theories of population, fertility, morbidity, mortality, age structure and demographic dividend, life table and migration; environment and market failure, Coase theorem, valuation of environmental goods.

Transaction Mode: Lecture, tutorial, problem solving & discussion

Suggested Readings

1. Schaum's outline of principles of economics, McGraw-Hill Education, 2011
2. Schaum's outline of international economics, McGraw-Hill Education, 1995

3. Schaum's Outline of Theory and Problems of Development Economics, McGraw-Hill Education, 2001
4. Patrick J. Welch, (2012), Economics: Theory and Practice, Wiley
5. Peter W. Abelson (2012), Public Economics: Principles and Practice, McGraw-Hill Education
6. Ramesh Singh (2017), Indian Economy, McGraw-Hill Education
7. K. Srinivas, Vikas Kumar, S. R. Kantwa and S. V. Sai Prasad (2014), Agricultural Economics, New Vishal Publications
8. Nick Hanley (2007), Environmental Economics: In Theory and Practice, Palgrave Macmillan

Course Name: Data Analysis Using SPSS

Course Code: ECO.504

L	T	P	Cr
0	0	2	1

Learning Outcome: On completion of this course, the students will be able to:

- Use SPSS in data entry,
- Use SPSS in constructing tables and figures,
- Use SPSS in performing statistical tests, and
- Use SPSS in estimating regression model.

Unit-I: Introduction and Data Management:

3 Hours

Introduction to SPSS; Getting familiar with the interface; Importing data from Excel; Creating a new data file (entering survey data); Data preparation and exploratory data analysis; Defining variables; dealing with missing values; data manipulation- data transformation; syntax files and scripts; output management. Generating and transforming variables.

Unit-II: Descriptive Analysis of Data:

4 Hours

Descriptive statistics for two or more variables; Creating and editing charts for two or more variables; Inferential statistics for the mean and the median; One-sample t-test; T-test and Mann-Whitney U Test; Paired-difference t-test & Wilcoxon Signed-Rank Test; Power Analysis for t-test; One-sample binomial test; One-sample Chi-square; Chi-Squared Test of Independence; Power Analysis for the proportion. One-way and two-way ANOVA.

Unit-III: Correlation and Regression Analysis:

4 Hours

Computation of Pearson's and Spearman's rank correlation coefficient; Partial and multiple correlation coefficient; Simple Linear regression model and multiple regression models; Regression diagnostic tests: Multicollinearity; Heteroscedasticity and Autocorrelation detections and remedial measures; and detecting the presence of outliers.

Unit-IV: More topics on Regression Analysis:

4 Hours

Dummy variable (independent) regression models; Limited dependent variable regression models: Logit; and Probit models; Basic time series regression models: stationarity checking and fitting univariate and

multivariate time series regression models; and Basic Panel data regression models: fixed effect and random effect models.

Transaction Mode: problem solving, discussion & demonstration

Suggested Readings

1. Landau, S. and B. S. Everitt (2004). A handbook of statistical analyses using SPSS. CRC. London New York Washington, D.C.
2. Field A., (2013); *Discovering Statistics Using SPSS, Fourth Edition*, SAGE
3. Pallant, J. (2010). SPSS Survival Manual. McGraw Hill, Berkshire, England

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