# CHAUDHARY BANSI LAL UNIVERSITY, BHIWANI

(A State University Established by Govt. of Haryana Act. No. 25 of 2014)

## Scheme & syllabi of the

## Post Graduate Programme

IN

## ECONOMICS (M.A Economics)

**As per NEP 2020**
**Curriculum and Credit Framework for Postgraduate Programme**

**With Multiple Entry-Exit, Internship and CBCS-LOCF**

**With effect from the session 2025-26**

**DEPARTMENT OF ECONOMICS**
**FACULTY OF SOCIAL SCIENCE**
**CHAUDHARY BANSI LAL UNIVERSITY,**
**BHIWANI-127021 HARYANA, INDIA**

Chairperson
Department of Economics
Chaudhary Bansi Lal University
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**Semester-2**

| Semester | Course Type | Course Code | Nomenclature of course | Theory (T)/ Practical (P) | Credits | Credits Total | Contact hours/ week L: Lecture | T: Tutorial | P: Practical | Total | Internal Assessment Marks | End Term Examination Marks | Total Marks | Examination hours |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | CC-5 | ECO-201 | Micro-Economic Analysis-II | T | 4 | 22 | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | CC-6 | ECO-202 | Macro-Economic Analysis-II | T | 4 | | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | CC-7 | ECO-203 | Mathematics of Economics | T | 4 | | 4 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | CC-8 | ECO-204 | Economics of Growth and Development-II | T | 4 | | 4 | 0 | 0 | 4 | 30 | 30 | 100 | 3 |
| | DEC - 2 (Any One) | ECO-205 | Data Analytics-II | T | 3+1 | | 3 | 0 | 2 | 5 | T 20, P 10 | T 50, P 20 | 100 | 3 |
| | | ECO-206 | Computer Applications in Economics | T | 4 | | 0 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | | ECO-207 | Indian Economic Thought-II | T | 4 | | 0 | 0 | 0 | 4 | 30 | 70 | 100 | 3 |
| | VAC/IKS | CHM-208 | Constitutional, Human and Moral Values, and IPR | T | 2 | | 2 | 0 | 0 | 2 | 15 | 35 | 50 | 2 |
| | Internship | INT-200 | An internship course of 4 Credits of 4-6 weeks duration during summer vacation after IInd semester is to be completed by every student. Internship canbeeitherforenhancingtheemployabilityorfordevelopingtheresearch aptitude. | | | | | | | | 50 | 50 | 100 | |

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| Session 2025-26 | | | |
|---|---|---|---|
| **Part A- Introduction** | | | |
| Name of Programme | M.A. Economics | | |
| Semester | Second | | |
| Name of the Course | Micro-EconomicAnalysis-II | | |
| Course Code | ECO-201 | | |
| Course Type | CC-5 | | |
| Course Learning Outcomes (CLO) After completing this course, the learner will be able to: | CLO1. Understandnewadvancesinthetheoryoffirmandthinkcriticallyanalyzeeconomic problemsinthe contextoffirm.<br>CLO2.Adoptdifferentanalyticalconcepts and modelsin framingdevelopmentand policy-relevantproblemsparticularlyfactor pricing andincome distribution.<br>CLO3.Understandthe effects ofvariousdecisionsonwelfareofpeoplethroughgeneralequilibriumanalysis.<br>CLO4.ApplyMicroeconomictoolstosolvereallifeproblemsespeciallyunder uncertaintyand gametheory. | | |
| Credits | Theory | Tutorial | Total |
| | 4 | 0 | 4 |
| Teaching Hours Per Week | 4 | 0 | 4 |
| Internal Assessment Marks | 30 | 0 | 30 |
| End Term Exam Marks | 70 | 0 | 70 |
| Max Marks | 100 | 0 | 100 |
| Examination Time | 3 Hours | | |

**Part B- Contents of the Course**

**Instruction for Paper-Setter:** The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All question will carry equal marks.

| Unit | Topics | Contact Hours |
|---|---|---|
| I | **ManagerialTheoriesof Firm**<br>Critical evaluation of marginal analysis; Average Cost Pricing model; Bain's Limit Pricing Theory; Baumol's Sales Revenue Maximization model (all four static models);MarrisModelofManagerial Enterprise; Williamson'sModelofManagerial Discretion. | 15 |
| II | **Factors Pricing**<br>Pricing of factors of production (modern approach under perfect and imperfect market);Elasticityoftechnicalsubstitution andfactorshares,Technicalprogressandfactorshares;Macrotheoriesofdistribution—Ricardo,Marx,KaleckiandKaldor. | 15 |
| III | **GeneralEquilibriumendMarketEfficiency**<br>TheWalrasianapproachtogeneralequilibrium;Existence,stabilityanduniquenessofthepartial equilibrium; Pareto Optimality; Maximization of social welfare; Market failure:Externalities.Publicgoodsandasymmetricinformation: MoralHazard and Adverse selection; The theory of second best; Economics of information — search costs, market signaling. | 15 |

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| IV | **ChoiceUnderUncertainty**<br>Inter-temporal choicein consumption; Economics of Uncertainty: Risk and UncertaintyinDemandChoices,Measuring Risk,Utility Theory and Risk Aversion. Gambling andInsurance, Risk aversion andIndifference curves,reducing risk and uncertainty,Riskpoolingandrisk spreading, Mean-variance analysisand portfolio selection.<br>**TheoryofGames**<br>Extensiveformsandnormal forms,dominant strategies andeliminationofdominantstrategies,Nashequilibrium, cooperativeandnon-cooperativegames,sequentialandsimultaneousgames. applications with oligopoly markets- Cournot, Bertrand and Stackelberg. | 15 |
|---|---|---|
| **Total Contact Hours** | | **60** |

**Suggested Evaluation Methods**

| Internal Assessment:30 | | End Term Examination:70 | |
|---|---|---|---|
| ➢ **Theory:** | **30** | ➢ **Theory:** | **70** |
| ➢ Class Participation: | 5 | Written Examination | |
| ➢ Seminar/presentation/assignment/quiz/class test etc: | 10 | | |
| ➢ Mid-Term Exam: | 15 | | |

**Part C – Learning Resources**

**Recommended Books/e-resources/LMS:**


1. Varian, H. R. (2014). *Intermediate microeconomics: A modern approach (9th ed.)*. NY: W Norton & Company.
2. Henderson, M., & Quandt. R.E. (2003). *Microeconomic Theory: Mathematical Approach (3rd ed.)*. India: Tata McGraw Hill.
3. Salvatore, D. (2003). *Microeconomics: Theory and applications (5th ed.)*. India: Oxford University Press.
4. Koutsoyiannis. A (1979). *Modern Microeconomics (2nd ed.)*, London: Macmillan Press.


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| Session 2025-26 | |
|---|---|
| **Part A- Introduction** | |
| Name of Programme | M.A. Economics |
| Semester | Second |
| Name of the Course | Macro-Economicsanalysis-II |
| Course Code | ECO-202 |
| Course Type | CC-6 |
| Course Learning Outcomes (CLO) After completing this course, the learner will be able to: | CLO1: Understandmoneychoices:ExploretheTheoryofDemandfor Money<br>CLO2: Abletolearnthetheoriesofmoneysupplyandinterestrates<br>CLO3: Identifythephasesofthebusinesscycle/inflationandtheproblems caused bycyclicalfluctuationsinthe marketeconomyandtoshowanabilityto reflectonhoweconomicshocksaffectaggregateeconomicperformanceint heshortandlongterm<br>CLO4: Explainthe components of aggregate economicactivityin an open economy framework. |

| Credits | Theory | Tutorial | Total |
|---|---|---|---|
| | 4 | 0 | 4 |
| Teaching Hours Per Week | 4 | 0 | 4 |
| Internal Assessment Marks | 30 | 0 | 30 |
| End Term Exam Marks | 70 | 0 | 70 |
| Max Marks | 100 | 0 | 100 |
| Examination Time | 3 Hours | | |

**Part B- Contents of the Course**

**Instruction for Paper-Setter:** The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All question will carry equal marks.

| Unit | Topics | Contact Hours |
|---|---|---|
| I | **Theoryof Demandformoney**<br>ClassicalApproach toDemand forMoney—QuantityTheory Approach; Fisher'sequilibrium Cambridge Quantity theory; KeynesLiquidity Approach —Transaction; Precautionary and Speculative Demand for Money; PostKeynesianapproachestodemandformoney:Tobin(Portfolio balanceapproach),Baumol (Inventorytheoreticapproaches),Friedman(Restatementofquantitytheoryofmoney), Patinkin's real balance effect.<br>SELFSTUDYCONTENTS(notrelevantforexams): | 15 |

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|---|---|---|
| II | **TheoryofSupplyformoneyandInterestRates**<br>MeasuresofmoneysupplyandMonetaryAggregates; Determinantsofmoneysupply;Money Multiplier Approach; Behavioral model of Money Supply Determination; Instruments of Monetary control.<br>Interest Rates -Theories of Determination of Interest Rate: Classical, Loanable Funds andKeynesian; Theories ofTerm Structure ofInterest Rates. | 15 |
| III | **TheoryofInflation**<br>Classical, Keynesian and Monetarist approaches; Structuralist theory ofinflation; Philips curve analysis — Short run and long tun Philips curve; Natural Rate of Unemployment hypothesis; Modified Philips curve - Tobin,Samuelson-Solow<br>**TheoryofBusinessCycles**<br>BusinessCycleTheoriesofKaldor,Samuelson,Hicks,andKalecki;Controlof business cycle› relative efficacyof monetary and fiscal policies | 15 |
| IV | **Open Economy Macroeconomics**<br>Balance of Payment Disequilibrium and Equilibrium: Real and Nominal Exchange Rates Dornbush Exchange rate Overshooting Model; Mundell- Fleming Model under Fixed and Flexible Exchange Rates.<br>**RecentDevelopments**<br>RoleofExpectationsinEconomics:AdaptiveExpectationhypothesis:NewClassical Macroeconomics:RationalExpectationHypothesis,PolicyIneffectiveness,LucasSupplyCurve. | 15 |
| **Total Contact Hours** | | 60 |

| **Suggested Evaluation Methods** | | | |
|---|---|---|---|
| **Internal Assessment:30** | | **End Term Examination:70** | |
| ➢ **Theory:** | 30 | ➢ **Theory:** | 70 |
| ➢ Class Participation: | 5 | Written Examination | |
| ➢ Seminar/presentation/assignment/quiz/class test etc: | 10 | | |
| ➢ Mid-Term Exam: | 15 | | |

**Part C – Learning Resources**

Recommended Books/e-resources/LMS:


- Mankiw,GregoryN.(2003)*Macroeconomics,*WorthPublishers.
- Romer,David(2012)*AdvancedMacroeconomics,* McGrawHillEducation.
- Levacic,Rosalind&Rebmann,Alexander(2015) *Macroeconomics,*Macmillan,London.
- Mishkin,F.S.(2016) Th*eEconomicsofMoneyBankingandFinancial market,* Pearson.
- Bain,K.&Howells,P.(2009)*MonetaryEconomics.- Policy**and**itsTheoretical**Basis.***MacmillanInternationalHighs Education.
- Handa,Jagdish(2000).*MonetaryEconomics.,* Routledge,London
- Gali, J.(2015).*MonetaryPolicy,inflationandBusinessCycles*PrincetonUniversityPress
- Frisch,H.1983).*TheoriesofInflation,*CambridgeUniversityPress
- Romer,D.&Mankiw,*N.*Gregory(1995).*NewKeynesianEconomics(Volume-2).*MITPress.
- Sheffrin,StevenM.(1996).*RationalExpectations,*CambridgeUniversityPress
- Galbacs,Peter(2015)*TheTheoryofNewClassical***Macroeconomics:***APositiveCritique.*Springer


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| Session 2025-26 | | | |
|---|---|---|---|
| **Part A- Introduction** | | | |
| Name of Programme | M.A. Economics | | |
| Semester | Second | | |
| Name of the Course | Mathematics for Economics | | |
| Course Code | ECO-203 | | |
| Course Type | CC-7 | | |
| Course Learning Outcomes (CLO) After completing this course, the learner will be able to: | CLO 1: Perform matrix operations, solve simultaneous equations, and apply matrix algebra techniques to input-output analysis.<br>CLO 2: Apply rules of differentiation and optimization techniques to solve economic problems effectively.<br>CLO 3: Compute the consumer's surplus and producer's surplus by utilizing the tool of integral calculus and develop the ability to solve differential equations.<br>CLO 4: Understand and solve difference equations and linear programming problems using graphical method. | | |
| Credits | Theory | Tutorial | Total |
| | 4 | 0 | 4 |
| Teaching Hours Per Week | 4 | 0 | 4 |
| Internal Assessment Marks | 30 | 0 | 30 |
| End Term Exam Marks | 70 | 0 | 70 |
| Max Marks | 100 | 0 | 100 |
| Examination Time | 3 Hours | | |

**Part B- Contents of the Course**

**Instruction for Paper-Setter:** The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All question will carry equal marks.

| Unit | Topics | Contact Hours |
|---|---|---|
| I | **Matrix Algebra and Its Applications**<br>Concept of Matrix and Determinant — their types, simple operations on matrices; Matrix inversion and rank of matrix: Solution of simultaneous equations through Cramer's rule and Matrix inverse method; Introduction to input-output analysis. | 15 |
| II | **Differential Calculus and Its Applications**<br>Rules of differentiation; Elasticity and their types; Rules of Partial differentiation and interpretation of partial derivatives; Problems of maxima and minima in single and multivariable functions; Unconstrained and constrained optimization in simple economic problems | 15 |
| III | **Integral Calculus and Differential Equations**<br>Concept and simple rules of integration; Application to consumer's and producer's surplus.<br>Differential Equations: Solution of Homogeneous, Exact Linear differential equations of First and second order; application to demand, revenue and market equilibrium models | 15 |

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|---|---|---|
| IV | **Difference equations** — Solution of first order and second order difference equations; Applications in trade cycle models; Growth models and lagged market equilibrium models. Linear programming — Basic concept, Nature of feasible, basic and optimal solution; Solution of linear programming problem through graphical method. | 15 |
| | **Total Contact Hours** | **60** |

| | | | |
|---|---|---|---|
| **Suggested Evaluation Methods** | | | |
| **Internal Assessment:30** | | **End Term Examination:70** | |
| ➢ **Theory:** | **30** | ➢ **Theory:** | **70** |
| ➢ Class Participation: | 5 | Written Examination | |
| ➢ Seminar/presentation/assignment/quiz/class test etc: | 10 | | |
| ➢ Mid-Term Exam: | 15 | | |

**Part C – Learning Resources**

Recommended Books/e-resources/LMS:


- Adams,R.A.,&Essex,C.R.(2012).Calculus:Acombinedapproach(9thed.).PearsonEducationLimited.
- Aggarwal,D.R.(2018).QuantitativeMethods.VrindaPublications.
- Allen,R.G.D.(2017).Differenceequationswithhistoricalapplications.AcademicPress.
- Allen, R.G.D.(1974).MathematicalAnalysisforEconomists.MacmillanPress.London.
- Black,J.&Bradley,J.F.(1973).EssentialMathematicsforEconomists.JohnWileyandSons.
- Boyce,W.E.,&DiPrima,R.C.(2010).Elementarydifferentialequationsandboundaryvalueproblems(9thed.).Wiley.
- Chiang.A.C.(2005).FundamentalMethodsofMathematicalEconomics.McGrawHill,NewYork.
- Dantzig.G.B.(2003).Linearprogrammingandits extensions.PrincetonUniversityPress.
- Hillier,F.S.,&Lieberman,G.J.(2019).Introductiontomathematicalprogramming(5thed.).McGraw-HillEducation.
- Joshi.R.C.(2008).BasicMathematicsforEconomists.NewAcademicPublishing.
- Leontief,W.(1936).Quantitativeinput-outputrelationsin theeconomicsystems of the UnitedStates. Reviewof Economicsand Statistics,18,105-125.
- Mehta,B.C.&Madnani,G.M.K.(2018).MathematicsforEconomists.SultanChandéSons,NewDelhi.
- Meyer.C.D.(2000).Matrixanalysisandappliedlinearalgebra.SIAM
- Miller,R.E.&Blair,P.D. (1985).Input-OutputAnalysis:FoundationsandExtensions.Prentice-Hall,EnglewoodCliffs, NewJersey.
- Mouhammed.AdilH.(2004).QuantitativeMethodsforBusinessandEconomics.PHI.NewDelhi.
- Stewart,J.(2018).Calculus:Earlytranscendentals(8thed.).CengageLearning.
- Strang,G.(2019).IntroductiontoLinearalgebra(5ihed.).Wellesley-CambridgePress.
- Taha,HamdyA.(2001).OperationsResearch:AnIntroduction.PearsonEducation.
- Tenenbaum,S.,&Pollard.C.(2011).Ordinarydifferentialequations(DoverBooksonMathematics).DoverPublications.
- Vohra,N.D.(2008).QuantitativeTechniquesinManagement.TataMcGrawHill
- YamaneT.(1973).MathematicsforEconomists.PHI


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| Session 2025-26 | | | |
|---|---|---|---|
| **Part A- Introduction** | | | |
| Name of Programme | M.A. Economics | | |
| Semester | Second | | |
| Name of the Course | Economics of Growth and Development-II | | |
| Course Code | ECO-204 | | |
| Course Type | CC-8 | | |
| Course Learning Outcomes (CLO) After completing this course, the learner will be able to: | CLO1: To introduce students to the basics of development economics and to evaluate the role of institutions in economic growth.<br>CLO2: To identify the development issues in developing and developed nations.<br>CLO3: To identify the basic requirements for economic development of underdeveloped and developing countries.<br>CLO4: To understand aggregate models of growth and cross-national comparisons of the growth experience that can help evaluate these models.<br>CLO5: To analyze sectoral performance of Indian economy in respect to its development.<br>CLO6: To understand the importance of planning and planning models for the economic development. | | |
| Credits | Theory | Practical | Total |
| | 4 | 0 | 4 |
| Teaching Hours Per Week | 4 | 0 | 4 |
| Internal Assessment Marks | 30 | 0 | 30 |
| End Term Exam Marks | 70 | 0 | 70 |
| Max Marks | 100 | 0 | 100 |
| Examination Time | 3 Hours | | |
| **Part B- Contents of the Course** | | | |

**Instruction for Paper-Setter:** The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All question will carry equal marks.

| Unit | Topics | Contact Hours |
|---|---|---|
| I | Role of education, knowledge, and governance in economic development; trade and development; trade as engine of growth; Perbish, Singer and Myrdal views, gains from trade and less developed countries (LDC), role of foreign direct investment (FDI) and multinational corporation (MNC) in economic development. | 15 |
| II | Concept and measures of poverty; head count ratio, income gap ratio, Sen's poverty index; concept and measures of inequality; Lorenz curve and Gini's coefficient; growth and new industrial policy; privatization and disinvestments; labour market reforms; state and state failures; issues of good governance. | 15 |
| III | Economic development and environmental degradation: environmental Kuznet's curve, preservation and irreversibility of environmental change, Krutilla-fisher equation, energy and development. | 15 |

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|---|---|---|
| IV | Solow model: Basic Solow model, technology and Solow model, Solow model with human capital; Economics of ideas; Economic growth: Romer model, Endogenous growth: mechanics of endogenous growth, the deeper economics of endogenous growth, convergence, population growth and Malthus, Lessons from Asian tigers, natural resources as limits to growth, neoclassical versus endogenous growth theory. | 15 |
| **Total Contact Hours** | | **60** |

**Suggested Evaluation Methods**

| **Internal Assessment:30** | | **End Term Examination:70** | |
|---|---|---|---|
| ➢ **Theory:** | **30** | ➢ **Theory:** | **70** |
| ➢ Class Participation: | 5 | Written Examination | |
| ➢ Seminar/presentation/assignment/quiz/class test etc: | 10 | | |
| ➢ Mid-Term Exam: | 15 | | |

**Part C – Learning Resources**

Recommended Books/e-resources/LMS:


- Todaro, M.P. and Smith, S.C., *'Economic Development', Latest* edition, Pearson publication.
- Thirawall, A., '*Growth and Development*', *Latest* edition, Macmillan Publication.
- Ray, D., (1998), '*Development Economics*', Princeton University Press.
- Basu, K., (2003), '*Analytical Development Economics*', MIT Press.
- Mishra S.K. and V.K. Puri, *Economics of Development and Planning*, *Latest* edition, Himalaya Publishing House, Mumbai
- Agarwala, A. N., & Singh, S. P. (Eds.). (1963). Economics of underdevelopment: A series of articles
  and papers. London: Oxford University Press.
- Sen, A. (1999). Development as freedom. New Delhi: Oxford University Press


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| Session 2025-26 | | | |
|---|---|---|---|
| **Part A- Introduction** | | | |
| Name of Programme | M.A. Economics | | |
| Semester | Second | | |
| Name of the Course | Data Analytics-II | | |
| Course Code | ECO-205 | | |
| Course Type | DEC-2 | | |
| Course Learning Outcomes (CLO) After completing this course, the learner will be able to: | CLO 1: Understand, apply and solve the problems on univariate and bivariate data besides hypothesis testing in a software,<br>CLO 2: Understand and compute various regressions in a software.<br>CLO 3: Understand and compute the problems of Autocorrelation, Multicollinearity and heteroskedasticity using a software.<br>CLO4: Understand and compute future value, present value and financial ratios using a software.<br>CLO 5: Demonstrate the ability to solve the contents using a software. | | |
| Credits | Theory | Practical | Total |
| | 3 | 1 | 4 |
| Teaching Hours Per Week | 3 | 2 | 5 |
| Internal Assessment Marks | 20 | 10 | 30 |
| End Term Exam Marks | 50 | 20 | 70 |
| Max Marks | 70 | 30 | 100 |
| Examination Time | 3 Hours | | |

**Part B- Contents of the Course**

**Instruction for Paper-Setter:** The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All question will carry equal marks.

| Unit | Topics | Contact Hours |
|---|---|---|
| I | 1.Interval estimation<br>2.Hypothesis testing-one sample and two sample t test, Wilcoxon signed- Rank test, Mann-Whitney U test, ANOVA<br>3.Construction of Index Numbers- Deflating a series by Price Indexes<br>4.Time Series Analysis and Forecasting<br>SELF STUDY CONTENTS (not relevant for exams)<br>Excel Functions. SPSS, E-VIEWS, STATA | 11 |
| II | 5.Regression analysis- multiple<br>6.Panel data Analysis<br>7.Logistic Regression<br>8.Economic Forecasting Using Regression<br>SELF STUDY CONTENTS (not relevant for exams)<br>Excel Functions. SPSS, E-VIEWS, STATA | 11 |
| III | 9.The problem of Autocorrelation<br>10.The problem of Multicollinearity<br>11.The problem of heteroskedasticity<br>12.Economic Forecasting using ARIMA Modelling- Box Jenkins, ACF, PACF<br>SELF STUDY CONTENTS (not relevant for exams)<br>Excel Functions. SPSS, E-VIEWS, STATA. | 11 |

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| IV | 13.Financial Statement Ratio Analysis<br>14.Common Sized Financial Statements and DuPont Analysis<br>15. Future Value Lump Sum Calculations, Simple & Compound Interest; Present Value Lump Sum Calculations and PV Function; Future Value for Lender or Borrower.<br>16. Asset Valuation Using Discounted Cash Flow Analysis and PV Function<br>SELF STUDY CONTENTS (not relevant for exams):<br>Excel functions, SPSS, E-VIEWS, STATA | 12 |
| | **Learning Practicals:**<br>1.Student will prepare a practical file containing 4 practicals from each unit.<br>2.Practicalmaybedoneusingthesoftwarechosenbytheteacher.<br>3.Theexternalexaminershalltakethewrittenexamfollowedbyvivavoce.<br>4.Syllabuscontainsallthecontentsmentionedinthefourunits. | 30 |
| **Total Contact Hours** | | 75 |

**Suggested Evaluation Methods**

| **Internal Assessment:30** | | **End Term Examination:70** | |
|---|---|---|---|
| ➢ **Theory:** | **30** | ➢ **Theory:** | **50** |
| ➢ Class Participation: | 5 | Written Examination | |
| ➢ Seminar/presentation/assignment/quiz/class test etc: | 5 | | |
| ➢ Mid-Term Exam: | 10 | | |
| Practical | 10 | **Practical** | **20** |
| • Class Participation: | 5 | Lab record (Internal)<br>Practical Viva-voce (External Examiner) | |
| • Seminar/presentation/assignment/quiz/class test etc: | 5 | | |
| • Mid-Term Exam | - | | |

**Part C – Learning Resources**

Recommended Books/e-resources/LMS:


- GaryKoop:Analysisofeconomicdata,JohnWiley&Sons,2005
- ThomasCleff:AppliedStatisticsand MultivariateDataAnalysisforBusinessand Economies:A ModemApproachUsing SPSSStata.andExcel, Springer
- KurtJechlitschka,DieterKirschkeandGeraldSchwarz:MicroeconomicsusingExcel:Integrating Economic theory,policy analysis andspreadsheetmodeling.Routledge.
- ShmuelOluwa:Hands-OnFinancialModelingwithExcelforMicrosoft365,PacktPublishing
- AbdulkaderAljandali andMotasamTatahi:EconomicandFinancialModellingwithEViews-AGuideforStudentsandProfessionals
- JoaquimP.Marquesde Sä:AppliedstatisticsusingSPSS,STATISTICA,MATLABandR,Springer
- RobertP.Burns,RichardBurns.BusinessResearchMethodsandStatisticsUsingSPSS,Sage


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| Session 2025-26 | | | |
|---|---|---|---|
| **Part A- Introduction** | | | |
| Name of Programme | M.A. Economics | | |
| Semester | Second | | |
| Name of the Course | Computer Applications in Economics | | |
| Course Code | ECO-206 | | |
| Course Type | DEC-2 | | |
| Course Learning Outcomes (CLO) After completing this course, the learner will be able to: | CLO 1: Students will be able to understand about the computer 'history, components and system hardware & software design.<br>CLO 2: Students will learn how to make DBMS & data base structuring techniques.<br>CLO 3: Students will learn how to use MS Office in computer.<br>CLO 4: Students will learn about the statistical processing techniques and method by using statistical software. | | |
| Credits | Theory | Tutorial | Total |
| | 4 | 0 | 4 |
| Teaching Hours Per Week | 4 | 0 | 4 |
| Internal Assessment Marks | 30 | 0 | 30 |
| End Term Exam Marks | 70 | 0 | 70 |
| Max Marks | 100 | 0 | 100 |
| Examination Time | 3 Hours | | |

**Part B- Contents of the Course**

**Instruction for Paper-Setter:** The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All question will carry equal marks.

| Unit | Topics | Contact Hours |
|---|---|---|
| I | **Computer Fundamentals:** Introduction, Characteristics of Computers, Evolution of Computers (History, Generation) Hardware, Software and Types of Software; Operating System- Definitions & Functions; Computer Languages; Machine, Assemble and High-Level Languages; Computer Transaction: Assemblers, Compiler and Interpreters. | 15 |
| II | **Business Data Processing Concepts:** Data and Information: Meaning, Types, Data Storage Hierarchy; Database Concepts; Database | 15 |

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|---|---|---|
| | Management System, Database Structuring Techniques, Advantages and Limitations of Database System. | |
| III | **MS Office**: Power Point: Introduction, Uses, Creation of slides of PowerPoint, MS excel: Introduction, Uses, Various Operations of Excel, Creation of Graphic in Excel, MS word: Introduction and Uses, Internet: sage and Applications, Extranet, LAN, WAN, MAN, and WWW. | 15 |
| IV | **Statistical Processing Technique and Methods:** SPSS-Functions and Applications, Summarizing and Analysis of Data; Descriptive Statistics; Comparison of Means; Correlation and Regression Analysis; Estimation of Growth Rates; Discriminate Analysis, Principal Components, Factor Analysis and Cluster Analysis; Data Analysis Using Software Statecraft. | 15 |
| **Total Contact Hours** | | **60** |

**Suggested Evaluation Methods**

| **Internal Assessment:30** | | **End Term Examination:70** | |
|---|---|---|---|
| ➢ **Theory:** | **30** | ➢ **Theory:** | **70** |
| ➢ Class Participation: | 5 | Written Examination | |
| ➢ Seminar/presentation/assignment/quiz/class test etc: | 10 | | |
| ➢ Mid-Term Exam: | 15 | | |

**Part C – Learning Resources**

**Recommended Books/e-resources/LMS:**


- Dhunna, M., & Dixit, J. B. (2010). *Information technology in business management*. University Science Press (An imprint of Laxmi Publications).
- Goyal, A. (2013). *Computer fundamentals programming in C*. Pearson.
  Jaiswal, S. (1997). *Computer science question bank bible*. Galgotia Publishers.
- Raja, R. (2007). *Fundamentals of computer*. Prentice Hall of India.
- Sinha, P. K. (2016). *Computer fundamentals* (3rd ed.). BPB Publications.
- Statecraft. (2015). *Data analysis using Statecraft*. Predictive Analytics Solutions Pvt.


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|---|---|---|---|
| **Part A- Introduction** | | | |
| Name of Programme | M.A. Economics | | |
| Semester | Second | | |
| Name of the Course | Indian Economic Thought-II | | |
| Course Code | ECO-107 | | |
| Course Type | DEC-2 | | |
| Course Learning Outcomes (CLO) After completing this course, the learner will be able to: | CLO 1: Articulate the historical development of economic thought in India.<br><br>CLO 2: Critically evaluate the contributions of major Indian economic thinkers and apply the principles of Indian economic thought to contemporary economic issues. | | |
| Credits | Theory | Tutorial | Total |
| | 4 | 0 | 4 |
| Teaching Hours Per Week | 4 | 0 | 4 |
| Internal Assessment Marks | 30 | 0 | 30 |
| End Term Exam Marks | 70 | 0 | 70 |
| Max Marks | 100 | 0 | 100 |
| Examination Time | 3 Hours | | |

**Part B- Contents of the Course**

**Instruction for Paper-Setter:**The examiner will set 9 questions asking four questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting two question from each unit and the compulsory question. All question will carry equal marks.

| Unit | Topics | Contact Hours |
|---|---|---|
| I | **Modern Thinkers:Dadabhai Naoroji**: Analysis of the 'Drain Theory' and its implications on colonial India's economy, **R.C. Dutt and Gopal Krishna Gokhale**: Critiques of British economic policies and advocacy for Indian self-governance, **Mahatma Gandhi:** Emphasis on self-sufficiency, village-centric economies, Swadeshi movement, Khadhi and Cottage Industries. | **30** |
| II | **Modern Indian Economists and Planners: M.N. Roy**: Marxist perspectives and critiques of capitalist structures, **Dr. B.R. Ambedkar**: Advocacy for social justice, economic equity, and labor rights, **V.K.R.V. Rao:** Contributions to economic planning, cooperative movements, and development strategies, **AK Sen**: Capability Approach, | **30** |

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| | **Abhjeet Banerjee**: The Economics of Poverty. | |
| **Total Contact Hours** | | 60 |

| | | | |
|---|---|---|---|
| **Suggested Evaluation Methods** | | | |
| **Internal Assessment:30** | | **End Term Examination:70** | |
| ➢ **Theory:** | 30 | ➢ **Theory:** | 70 |
| ➢ Class Participation: | 5 | Written Examination | |
| ➢ Seminar/presentation/assignment/quiz/class test etc: | 10 | | |
| ➢ Mid-Term Exam: | 15 | | |

**Part C – Learning Resources**

**Recommended Books/e-resources/LMS:**


- H.L. Bhatia (1994), History of Economic Thought, Vikas Publishing House, New Delhi.
- B.N. Ganguli (1977), Indian Economic Thought: A Nineteenth Century Perspective, TMH, Delhi.
- Eric Roll (1923), A History of Economic Thought, Faber And Faber Ltd., London.
- G.B. Seshari (1997), Economic Doctrines, B.R. Publishing Corporation, New Delhi.
- Lewis H. Haney (1913), A History of Economic Thought, MacMillan Company, New York.
- Charles Gide and Charles Rist (1923), A History of Economic Doctrines, George G. Harrap & Co. Ltd., London.
- V. Shanmugasundaram (1981), Indian Economic Thought and Policy, S. Chand & Co., New Delhi.
- B.N. Ghosh and R. Ghosh (1988), Concise History of Economic Thought. 9. Abul Hassan M. Sadeq and Aidit Ghazali (Eds.) (1992), Readings in Islamic Economic Thought, Longman, Malaysia.


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|---|---|---|---|
| **Part A- Introduction** | | | |
| Name of Programme | M.A. Economics | | |
| Semester | Second | | |
| Name of the Course | Constitutional, Human and Moral Values, and IPR | | |
| Course Code | CHM-208 | | |
| Course Type | VAC/IKS | | |
| Course Learning Outcomes (CLO) After completing this course, the learner will be able to: | CLO- 1: Leam the different Constitutional Values, Fundamental rights and duties enshrined in the Indian Constitution.<br>CLO-2: Understand humanism, human virtues and values, and ide of international peace.<br>CLO-3: Grasp the basic concepts of Moral Values and Professional Conduct which are required to become a part of the civil society and for developing professionalism.<br>CLO-4: Understand concepts of Intellectual Property Rights, Copyright, Patent, Trademark etc., and about threats of Plagiarism. | | |
| Credits | Theory | Practical | Total |
| | 2 | 0 | 2 |
| Teaching Hours Per Week | 2 | 0 | 2 |
| Internal Assessment Marks | 15 | 0 | 15 |
| End Term Exam Marks | 35 | 0 | 35 |
| Max Marks | 50 | 0 | 50 |
| Examination Time | 3 Hours | | |

**Part B- Contents of the Course**

**Instruction for Paper-Setter:** The examiner will set 9 questions asking two questions from each unit and one compulsory question by taking course learning outcomes (CLOs) into consideration. The compulsory question (Question No. 1) will consist at least 4 parts covering entire syllabus. The examinee will be required to attempt 5 questions, selecting one question from each unit and the compulsory question. All question will carry equal marks.

| Unit | Topics | Contact Hours |
|---|---|---|
| I | **Constitutional Values:**<br>Historical Perspective of Indian Constitution; Basic Values enshrined in the Preamble of the Indian Constitution; Concept of Constitutional Morality; Patriotic Values and Ingredients Nation Building; Fundamental Rights and Duties; Directive Principles of the State Policy | 8 |
| II | **Humanistic Values:**<br>Humanism, Human virtues and Civic Sense; Social Responsibilities of Human Beings; Ethical ways to deal with human aspirations; Harmony with society and nature; Idea of International Peace and Brotherhood (Vasudhaiv Kutumbkam). | 7 |
| III | **Moral values and Professional Conduct**<br>Understanding Morality and Moral Values; Moral Education and Character Building; Ethics of Relations: Personal. Social and Professional; Introduction to Gender Sensitization; Affirmative approach towards Weaker Sections (SCs, STs, OBCs, EWS& DAs); Ethical Conduct in Higher Education institutions; Professional Ethics | 8 |
| IV | **Intellectual Property Rights;**<br>Meaning, Origins and Nature of Intellectual Property Rights (IPRS); Different Kinds of IPRS -Copyright. Patent. Trademark. Trade Secret/Dress, Design, Traditional Knowledge; Infringement and Offences of IPRs - Remedies and Penalties; Basics of Plagiarism policy of UGC. | 7 |
| | **Note: Scope of the syllabus shall be restricted to generic and introductory level of mentioned topics.** | |

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| Total Contact Hours | | 30 | |
|---|---|---|---|
| **Suggested Evaluation Methods** | | | |
| **Internal Assessment:15** | | **End Term Examination:35** | |
| ➢ **Theory:** | 15 | ➢ **Theory:** | 35 |
| ➢ Class Participation: | 4 | Written Examination | |
| ➢ Seminar/presentation/assignment/quiz/class test etc: | 4 | | |
| ➢ Mid-Term Exam: | 7 | | |

**Part C – Learning Resources**

Recommended Books/e-resources/LMS:


- Ahuja, V.K. (2017). Law relating to intellectual Property Rights, India, IN: Lexis Nexis
- Bajpai, B. I Indian Ethos and Modern Management. New Royal Book Co. Lucknow, 2004
- Basu, D.D., Introduction to the Constitution of India (Students Edition) Prentice Hall of India Pvt. Ltd., New Delhi, 20th ed. 2008
- Dhar, PL. & R.R. Gaur, Science and Humanism, Commonwealth Publishers, New Delhi, 1990.
- George, Sussan, How the Other Half Dies, Penguin Press, 1976.
- Govindarajan, M., S. Natarajan, V.S. Sendilkumar (eds.), Engineering Ethics (Including Human Values), Prentice Hall of India Private Ltd. New Delhi, 2004
- Harries, Charles E. Michael S. Pritchard & Michael 1 Robins, Engineering Ethics. Thompson Asia, New Delhi, 2003
- Illich, Ivan, Energy & Equity. Trinity Press, Worcester, 1974.
- Meadows, Donella H., Dennis L. Meadows, Jorgen Randers & William W Behrens, Limits to Growth Clash of Rome's Report, Universe Books. 1972.
- Myneni, S.R, Law of Intellectual Property, Asian Law House
- Narayanan, P, IPRS.
- Neeraj, P., & Khusdeep. D. (2014). Intellectual Property Rights, India, IN: PHI learning Private Limited.
- Nithyananda, K. V. (2019). Intellectual Property Rights: Protectionand Management, India, IN: Cengage Learning India Private Limited
- Palekar, Subhas, how to practice Natural Farming, Pracheen (Vaidik) Krishi Tantra Shodh, Amravati, 2000,
- Phaneesh, K.R., Constitution of India and Professional Ethics. New Delhi
- Pylee, M.V., An Introduction to Constitution of India. Vikas Publishing, New Delhi, 2002
- Raman, B.S. Constitution of India, New Delhi, 2002.
- Reddy, B., intellectual Property Rights and the Law, Gogia Law Agency
- Reddy, N.H. SantoshAjmera, Ethics, Integrity and Aptitude, McGraw Hill, New Delhi.
- Sharma, Brij Kishore, Introduction to the Constitution of India. New Delhi.
- Schumacher, E.F. Small is Beautiful A Study of Economics as if People Mattered, Blond & Briggs, Britain, 1973.
- Singles. Shubham et. al., Constitution of India and Professional Ethics. Cengage Learning India Pvt. Ltd., Latest Edition, New Delhi 2018.
- Tripathy, A.N. Human Values, New Age International Publishers, New Delhi, 2003
- Wadehra, B.L., Law relating to Intellectual Property, Universal Law Publishing Co.
- Relevant Websites, Movies and Documentaries:
- Value Education Websites, http://uhv.ac.in. http://www.uptu.ac.in.
- Story of Stuff. http://www.storyofstuff.com
- Cell for IPR Promotion and Management: http://cipam.gov.in/
- World Intellectual Property Organization: https://www.wipo.int/about-ip/en/
- Office of the Controller General of Patents, Designs & Trademarks http:/www.ipindia.nic.in/
- Al Gore, An Inconvenient Truth, Paramount Classics, USA
- Charlie Chaplin. Modern Times, United Artists, USA.
- Modern Technology – The Untold Story, IIT, Delhi.

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- A. Gandhi, Right Here Right Now, Cyclewala Productions.

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