Kurukshetra University, Kurukshetra

(Established by the State Legislature Act-XII of 1956)
("A++" Grade, NAAC Accredited)

Syllabus
for
Post Graduate Programme

M.A. Business 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 2024-25 (in phased manner)

DEPARTMENT OF ECONOMICS
FACULTY OF SOCIAL SCIENCES

KURUKSHETRA UNIVERSITY, KURUKSHETRA -136119
HARYANA, INDIA

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Chairman,
Department of Economics
Kurukshetra University,
KURUKSHETRA-136119.

Session 2024-2025	
Part-A Introduction	
Name of Programme	M.A.Business Economics
Semester	**First**
Name of the Course	Micro Economic Theory
Course Code	M24-BEC-101
Course Type:	CC-1
Level of the course	400-499
Pre-requisite for the course (if any)	n.a.
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1. Know the scope and breadth of Micro Economics along with understanding the core principles of demand and supply so that they are able to apply the understanding of these concepts to comprehend real world problems along with the ability to think critically and analyse economic problems. CLO 2. Understand the core principles of production and costs so that they are able to apply the understanding of these concepts to comprehend real world problems along with the ability to think critically and analyse economic problems. CLO 3. Analyse given situations in a variety of markets on a microeconomic level. Understand the internal structure and assumptions of the different analytical frameworks of market conditions, their explanatory power and limitations. CLO 4. Learn and apply relevant optimization techniques for analysis of microeconomic behaviour of consumer, producer and firm. Simultaneously will be able to understand the implications and ethical as well as value part of it.

Credits	Theory	Tutorial	Total
	04	0	04
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		
Instructions 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 questions will carry equal marks.		

Unit	Topics	Contact Hours
I	**Theory of Demand and Consumer Behaviour** Indifference curve approach -Price, Income and	15

	Substitution effects (Hicks and Slutsky); and its applications (The leisure-income trade-off, Evaluation of alternative government policies, IC and theory of exchange); Revealed Preference Theory; The Consumer's Surplus (Hicks) and its applications; Elasticity of demand (empirical estimation) and Elasticity of Supply; Revision of Demand theory by Hicks; Linear Expenditure System.	
II	**Theory of Production and Costs** Production function (properties of Cobb Douglas and CES); Laws of production (variable proportions and returns to scale with the help of iso-quants); Technical Progress and production function; Equilibrium of the single product firm; Theories of costs and various cost curves(Short run as well as long run) – traditional and modern; Analysis of economies of scale.	15
III	**Markets and Equilibrium** Perfect competition – Short and long term equilibrium of the firm and industry; Dynamic changes and industry equilibrium; Monopoly – short run and long run equilibrium; Price discrimination; Monopolistic competition - Chamberlin's approach to equilibrium of the firm.	15
IV	**Non-Collusive Models** Cournot; Bertrand; Stackelberg; Chamberlin; Kinked-demand curve. **Collusive Models** Cartels (Joint profit maximization and market sharing); Price leadership models (Low cost firm, Dominant firm and Barometric price leader).	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:
- Koutsoyiannis, A. (1979), *Modern Microeconomics (2nd Edition)*, Macmillan Press, London.
- Varian, H. (2003), *Intermediate Microeconomics*, East-West Press.
- Pindyck R. &Rubinfeld, D. (2018), *Microeconomics (9th Edition)*, Pearson.
- Salvatore, D. (2009), *Microeconomics-Theory and Applications,* Oxford University Press.
- Baumol, W.J. (1982), *Economic Theory and Operations Analysis,* Prentice Hall of India, New Delhi.
- Green, H.A.G. (1971), *Consumer Theory,* Penguin, Harmondsworth.
- Henderson &Quandt (1980), *Microeconomic Theory: A Mathematical Approach,* McGraw Hill, New Delhi.

- Da Costa, G.C. (1980), *Production, Prices and Distribution*, Tata McGraw Hill, New Delhi.
- Healthfields and Wibe (1987), *An Introduction to Cost and Production Functions*, Macmillan, London.
- Hirshleifer, J. & Glazer, A. (1997), *Price Theory and Applications*, Prentice Hall of India, New Delhi.
- Archibald, G.C. (Ed.) (1971), *Theory of the Firm*, Penguin, Harmondsworth.
- *https://www.edx.org/learn/economics?hs_analytics_source=referrals&utm_source=moo c.org&utm_medium=referral&utm_campaign=mooc.org-topics*

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<table>
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Name of Programme	M.A. Business Economics		
Semester	**First**		
Name of the Course	Macro Economic Theory		
Course Code	M24-BEC-102		
CourseType	CC-2		
Level of the course	400-499		
Pre-requisite for the course (if any)			
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand classical & Keynesian theories of output and employment,analyze their differences, and assess their role in economic fluctuations. CLO 2: Explaining the behaviour of macroeconomic variables by identifying and understanding the extended model. CLO 3: Analyze output, price, and employment under flexible prices in IS-LM. Explore effects of wages, interest rates, and policy on equilibrium. CLO 4: To understand the theories of consumption and investment and their relevance.		
	Theory	Practical	Total
Credits	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		

<table><tr><td colspan="3" align="center">Part B-Contents o fthe Course</td></tr></table>

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Theory of Output and Employment Determination** Classical Approach – Output and Employment in Classical Theory; The Quantity Theory of Money and the Price Level; Classical Model without saving and investment; Classical Model with saving and investment; Keynesian Approach - Two Sector Model, Three Sector Model and Four Sector Model. **SELF STUDY CONTENTS (not relevant for exams):** Nature and scope of macro Economics, importance of macroeconomics, circular flow of income in two three and four sector of economy.	15
II	**Theory of Output and Employment Determination**	

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		The Extended Model under Fixed Price Level – The Goods Market and The Money Market; IS-LM framework and Equilibrium in Goods Market and Money Market; Effect of Changes in Government spending, Taxation and Aggregate Demand on General Equilibrium. **SELF STUDY CONTENTS (not relevant for exams):** Nature and Scope of Good Market and Money Market, Money supply Process, the supply of and demand for money and rate of interest.	15
III	**Theory of Output and Employment Determination** The Extended Model under Variable Price Level – Derivation of Aggregate Demand Curve and Determination of equilibrium price and output levels; Wage-price flexibility and the Full Employment equilibrium; Interest rate effect and Pigou Effect; Monetary – Fiscal policy analysis in IS-LM Model. **SELF STUDY CONTENTS (not relevant for exams):** Rationale of Monetary policy, Fiscal policy. Inflation, interest rate and its effect on economy	15
IV	**Theories of consumption and Investment** The Absolute Income Hypothesis; The Relative Income Hypothesis; The Permanent Income Theory of Consumption; The Life cycle theory of consumption. The Marginal Efficiency of Capital Approach; The accelerator theory; Profits Theory; Jorgenson's Neoclassical Model; Adjustment costs and q theory. **SELF STUDY CONTENTS (not relevant for exams):** Cyclical and Secular Consumption Behaviour; Basic working of Multiplier.	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:
- (https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=NEp/xikgBgNtfA+sgFQAcA==) (investment and consumption theories)
- https://archive.nptel.ac.in/noc/courses/noc15/SEM1/noc15-hs08/ (IS-LM MODEL)
- https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=NEp/xikgBgNtfA+sgFQAcA==
- https://nptel.ac.in/courses/130104114) (consumption theories)
- https://ocw.mit.edu/courses/14-02-principles-of-macroeconomics-spring-2014/resources/mit14_02s14_is-lm_model/
- Mankiw, Gregory N. (2003). *Macroeconomics*. Worth Publishers.
- R Dornbusch, S Fischer and R Startz (2005). *Macroeconomics*. McGraw-Hill.

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- Romer, David (2012).*Advanced Macroeconomics*. McGraw Hill Education.
- Shapiro, E (2006). *Macroeconomic Analysis*. Galgotia Publication, New Delhi.

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Session: 2024-25	
Part A – Introduction	
Name of Programme	M.A. Business Economics
Semester	**First**
Name of the Course	Mathematics for Business Economists
Course Code	M24-BEC-103
Course Type	CC-3
Level of the course	400-499
Pre-requisite for the course (if any)	
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand and apply set theory operations, arithmetic and geometric progressions, and their business applications effectively. CLO 2: Perform matrix operations, solve simultaneous equations, and apply matrix algebra techniques to input-output analysis. CLO 3: Apply rules of differentiation and optimization techniques to solve economic problems effectively. CLO 4: Apply integration rules and solve difference equations to analyse economic models accurately.

	Theory	Practical	Total
Credits	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

Instructions 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 questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Foundations of Mathematics and Business Applications** Introduction to Sets, Set Operations: Union, Intersection, Complement. Subset, Superset, and Power Set. Venn Diagrams and Set Identities. Arithmetic Progression (AP) and Geometric Progression (GP): Definition, nth Term, Sum of the First n Terms and Properties. Sequences and Series in Business: Compound Interest and Annuities, Future Value and Present Value of Money, Applications of AP and GP in Business	15
II	**Matrix Algebra and Its Applications** 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

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III	**Differential Calculus and Its Applications** 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
IV	**Integral Calculus and Difference Equations** Concept and simple rules of integration; Application to consumer's and producer's surplus. Difference equations – Solution of first order and second order difference equations; Applications in trade cycle models; Growth models and lagged market equilibrium models		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:

- Aggarwal, D. R. (2018). Quantitative Methods. Vrinda Publications.
- Allen, R.G.D. (1974). Mathematical Analysis for Economists. Macmillan Press, London.
- Barnett, R. A., Bennie, D., & French, D. W. (2005). Fundamentals of Mathematics (8th ed.). McGraw-Hill Education
- Bittinger, M. L., Beecher, J. A., Ellenbogen, J., &Penna, D. J. (2018). Introductory Algebra for College Students (9th ed.). Pearson Education.
- Black, J. & Bradley, J.F. (1973). Essential Mathematics for Economists. John Wiley and Sons.
- Chiang, A.C. (2005). Fundamental Methods of Mathematical Economics. McGraw Hill, New York.
- Joshi, R. C. (2008). Basic Mathematics for Economists. New Academic Publishing.
- Leontief, W. (1936). Quantitative input-output relations in the economic systems of the United States. Review of Economics and Statistics, 18, 105-125.
- Lippman, L. C. (2014). Sets, Logic, and Foundations of Mathematics (2nd ed.). Dover Publications.
- Mehta, B. C. &Madnani, G. M. K. (2018). Mathematics for Economists. Sultan Chand & Sons, New Delhi.
- Mendelson, E. (2010). Introduction to Mathematical Logic (5th ed.). Chapman and Hall/CRC.
- Miller, R.E. & Blair, P.D. (1985). Input-Output Analysis: Foundations and Extensions. Prentice-Hall, Englewood Cliffs, New Jersey.
- Mouhammed, Adil H. (2004). Quantitative Methods for Business and Economics. PHI, New Delhi
- Murty, V. V. R. (2008). Introductory Discrete Mathematics (2nd ed.). Alpha Science Pvt Ltd.
- Yamane T. (1973). Mathematics for Economists. PHI.

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Session: 2024-25	
PartA–Introduction	
Name of Programme	M.A.Business Economics
Semester	**First**
Name of the Course	Data Analytics for Business Economists I
Course Code	M24-BEC-104
Course Type	CC-4
Level of the course	400-499
Pre-requisite for the course (if any)	
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand, apply and solve the problems on revenue, profits, utility and linear programming. CLO 2: Understand and compute break even, LP, sensitivity analysis and assignment problems. CLO 3: Understand and solve linear and non-linear optimization problems. CLO 4: Understand and solve path analysis and inventory problems - CLO 5: Demonstrate the ability to solve the problems mentioned in CLO 1-4 through 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	3 hours	

Part B-Contents o fthe Course

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	1. Computation of revenue and profits using excel. Given the quantity, demand function, cost function etc., compute profits or losses. Also generate a data series. 2. Creation of various charts using economic variables. Solving single and multiple system of equations through excel solver 3. Profit maximization and Utility maximization using solver 4. Linear programming problem using solver **SELF STUDY CONTENTS (not relevant for exams):** Excel functions	11
II	5. Break even analysis in excel 6. Sensitivity analysis using solver 7. LPP applications in marketing and finance 8. Assignment and shortest path problem in solver	11

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	SELF STUDY CONTENTS (not relevant for exams): Excel functions		
III	9. Generating Frequency Table, Bar Chart, Pie Chart, Histogram, Arithmetic Mean, Median, Standard Deviation and Range, Contingency Table, Chi-square, and Cramer's V, Pearson's r, and Spearman's rho, Scatter Diagrams 10. Construction of Frequency, Calculation of Central Tendencies and Measures of Dispersion 11. Estimation Correlation Coefficient, Zero Correlation Matrix, Part and Partial Correlation – 12. Estimation of Simple Regression. **SELF STUDY CONTENTS (not relevant for exams):** Excel functions	12	
IV	13. Project scheduling- PERT and CPM 14. Inventory models 15. Economic production lot size model 16. Multi-period Order-Quantity, Reorder Point Model with Probabilistic Demand **SELF STUDY CONTENTS (not relevant for exams):** Excel functions	11	
V	**Practicals:** 1. Students will prepare a Practical file containing 4 Practicals from each unit. 2. Practicals may be done using the software chosen by the teacher. 3. The external examiner shall take the written exam followed by viva voce. 4. Syllabus contains all the contents mentioned in the four units. 17.	30	

Total Contact Hours	75

Suggested Evaluation Methods

Internal Assessment: 30		End Term Examination: 70	
➢ **Theory**	20	➢ **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, Viva-Voce, write-up and execution of the Practical	
• Seminar/Demonstration/Viva-voce/Lab records etc.:	5		
• Mid-Term Exam:	-		

Part C-Learning Resources

Recommended Books/e-resources/LMS:

- Gary Koop: Analysis of economic data, John Wiley & Sons, 2005
- Thomas Cleff: Applied Statistics and Multivariate Data Analysis for Business and Economics: A Modern Approach Using SPSS, Stata, and Excel, Springer
- Kurt Jechlitschka, Dieter Kirschke and Gerald Schwarz: Microeconomics using Excel: Integrating

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economic theory, policy analysis and spreadsheet modeling, Routlage
- HumbertoBarreto: Intermediate Microeconomics with Microsoft Excel, Cambridge University Press
- VikasSingla: Operations Research Using Excel, Taylor and Francis

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Session: 2024-25	
PartA – Introduction	
Name of Programme	M.A.Business Economics
Semester	**First**
Name of the Course	Public Economics and Policy
Course Code	M24-BEC-105
CourseType	DEC-1
Level of the course	400-499
Pre-requisite for the course (if any)	n.a.
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Explain the concept of efficiency along with various solutions of market failure and interpret the welfare distribution aspects in context of public goods besides grasping the preference revelation mechanisms. CLO 2: Apply economic perspectives on activities of the government sector to become well-informed and engaged participants (citizens, voters, politicians and/or civil servants) in society. CLO 3: Draw the economic implications of various taxes along with their positive as well as normative analysis, and thus become able to design an efficient and equitable taxation system. CLO 4: Analyze the theories of fiscal federalism, public debt, and pricing in public enterprises, and solve the concerned policy issues.

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		

PartB-Contentsof the Course

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**The Public Economy and Public Goods** Exchange Economy, Production Economy and Efficiency; Asymmetric Information and market Failure; Externalities and their Internalization; Rent Seeking Costs and Political Process; Efficient Provision of Public Goods; Private provision of Pure Public Goods; Samuelson Model; Clarke Mechanism; Lindahl-Wicksell Mechanism; Theory of Club Goods. **SELF STUDY CONTENTS (not relevant for exams)** Concepts of Demand curve, Supply curve, Indifference curve, Isoquant curve, Production possibility curve, Budget or price line, Isocost line, and	15

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		their slopes; Idea of marginal benefit and marginal cost.	
II	**Public Choice**	Rational Voter Hypothesis; Characteristics of Majority Voting Rule; Bowen-Black Model; Buchanan and Tullock Model; Arrow's Impossibility Theorem; Downs Model on Demand And Supply of Government Policy; Models of Bureaucratic Behavior: Niskanen Model, Tullock Model; Voting and the Leviathan Hypothesis. **SELF STUDY CONTENTS (not relevant for exams):** Basic knowledge of rational consumer behavior.	15
III	**Public Revenue**	Incentive Effects of Taxation on Labour Supply, Savings, and Risk Taking; Tax Incidence – Partial and General Equilibrium Analysis; Excess Burden of Tax and its Measurement; Efficiency and Equity Principles of Taxation; Optimal Commodity Tax:The Ramsey Rule, The Corlett and Hague Rule; Optimal Income Tax. **SELF STUDY CONTENTS (not relevant for exams):** Meaning and types of taxes; Partial equilibrium *vs.* general equilibrium; Idea of consumer surplus.	15
IV	**Fiscal Federalism, Public Debt, and Public Enterprises**	Fiscal Federalism: Tiebout Model, Theory of Intergovernmental Grants, Centre-State fiscal relations in India - Theory and Practice; Public Debt: Burden Controversy, Debt Sustainability; Public Enterprises: Ramsey-Boiteux Linear pricing, Marginal cost pricing, Peak load pricing, Theory of Second Best, Social Cost Benefit Analysis. **SELF STUDY CONTENTS (not relevant for exams):** Concepts and forms of public debt and public enterprises; Idea of federal set-up of government.	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:
- Akerlof, G. (1970). The market for `Lemons': Quality uncertainty and the market mechanism. *Quarterly Journal of Economics*, 84(3), 488-500.
- Bagchi, Amaresh (2005). *Readings in public finance*. Oxford University Press.
- Bergstrom, T., Blume, L., & Varian, H. (1986). On the Private Provision of Public Goods. *Journal of Public Economics*, 29, 25-49.
- Boadway, Robin (1984). *Public sector economics*. Cambridge, Winthrop Publications.
- Bowen, H.R. (1943). The interpretation of voting in the allocation of economic resources. *The Quarterly Journal of Economics*, 58(1), 27-48.
- Buchanan, J., &Tullock, G. (1962). *The calculus of consent*. Ann Arbor Paperbacks.

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- Clarke, E.H. (1971). Multipart Pricing of Public Goods. *Public Choice*, 11, Rand McNally.
- Coase, R. (1960). The problem of social cost. *Journal of Law and Economics*, 3, 1-44.
- Cullis, J., & Jones, P. (2009). *Public finance and public choice: Analytical Perspectives.* Oxford University Press.
- Den Doel, Hans Van, &Velthoven, Ben Van (1993). *Democracy and welfare economics.* Cambridge University Press.
- Downs, Anthony (1957). *An economic theory of democracy.* Harper & Row Publishers, New York.
- Foley, D.K. (1970). Lindahl's solution and the core of an economy with public goods. *Econometrica*, 38(1), 66-72.
- Hackelman, J.C. (2004). *Readings in public choice economics.* University of Michigan Press.
- Hindricks, J., & Myles, G.D. (2013). *Intermediate public economics.* The MIT Press.
- Ihori, Toshihiro (2016). *Principles of public finance.* Springer.
- Jha, Raghbendra (1998). *Modern public economics.* Routledge.
- Lipsey, R.G., & Lancaster, K. (1956). The general theory of second best. *Review of Economic Studies*, 24, 11-32.
- McNutt, P.A. (2002). *The economics of public choice.* Edward Elgar.
- Mirrlees J. (1971). An Exploration in the Theory of Optimum Income Taxation. *Review of Economic Studies*, 38(2), 175-208.
- Niskanen, W. A. (1971). *Bureaucracy and representative government.* Aldine-Atherton, Chicago.
- Rosen, H. S., & Gayer, T. (2014). *Public finance.* McGraw Hill.
- Samuelson, P. A. (1954). The pure theory of public expenditure. *Review of Economics and Statistics*, 36(4), 387-389.
- Samuelson, P. A. (1955). Diagrammatic exposition of a theory of public expenditure. *Review of Economics and Statistics*, 37(4), 350-356.
- Tiebout, C.M. (1956). A pure theory of local expenditures. *Journal of Public Economics*, 64, 416-424.

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Session: 2024-25	
PartA – Introduction	
Name of Programme	M.A. Business Economics
Semester	**First**
Name of the Course	Accounting for Business Decisions
Course Code	M24-BEC-106
CourseType	DEC-1
Level of the course	400-499
Pre-requisite for the course (if any)	
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: To understand the basics of accounting and its principles. CLO 2: To learn the preparation of books of accounts. CLO 3: To learn and compute the accounting ratios and preparation of cash flow statement. CLO 4: To understand and prepare various budgets and learn to do social cost benefit analysis.

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 o fthe Course

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	Accounting as an information system; Users of financial accounting information and their needs; Functions, advantages and limitations of accounting; Branches of accounting; Bases of accounting; cash basis and accrual basis; The nature of financial accounting principles – Basic concepts and conventions: entity, money measurement, going concern, cost, realization, accruals, periodicity, consistency, prudence (conservatism), materiality and full disclosures.	15
II	Accounting Process: From recording of a business transaction to preparation of trial balance including adjustments: Capital and Revenue expenditure & receipts, Profit and Loss Account and Balance Sheet(Sole Proprietorship only).	15
III	Management Accounting: Nature and Scope; Preparation of Cost Sheet; Methods of Financial Analysis: Ratio Analysis- Liquidity, Efficiency, Profitability and Leverage Ratios; Cash Flow Statement.	15
IV	Marginal Costing and CVP Analysis; Differential Cost Analysis; Standard Costing and Variance Analysis; Budgeting and Budgetary Control System; Activity Based Costing; Social Cost Benefit Analysis.	15

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		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:

- Anthony A.A., Banker, R.D., Kaplan, R.S., Young, S.M., & Kumar, G.A. (2007). *Management Accounting*. Prentice-Hall of India.
- Horngren, C.T., Datar, S.M., Foster, G., Rajan, M.V. &Ittner, C. (2009). *Cost Accounting: A Managerial Emphasis*. Pearson Education.
- Williamson, Duncan (1996). *Cost and Management Accounting*. Prentice-Hall of India.
- Lall Nigam, B.M. & Jain, I.C. (2001). *Cost Accounting: An Introduction*. Prentice-Hall of India.
- Khan, M.Y. & Jain, P.K. (2006). *Cost Accounting and Financial Management*. Tata McGraw Hill, New Delhi.
- Tulsian, P.C. (2008). *Cost Accounting*. Tata McGraw Hill, New Delhi.
- Banerjee, B.K. (2008). *Financial Accounting: A Dynamic Approach*. Prentice Hall of India Private Limited, New Delhi.
- Black, G. (2009). *Introduction to Accounting and Finance*. FT Prentice Hall.
- Tulsian, P.C. (2009). *Financial Accounting*. Pearson Education.

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	Session: 2024-25		
	PartA– Introduction		
Name of Programme	M.A.Business Economics		
Semester	**First**		
Name of the Course	Evolution of Economic Thought		
Course Code	M24-BEC-107		
CourseType	DEC-1		
Level of the course	400-499		
Pre-requisite for the course (if any)	N.A.		
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: To understand the ancient and classical economic thought. CLO 2: To learn the socialist economic philosophy. CLO 3: To understand the economic philosophy of neo-classical and welfare economists. CLO 4: To learn the economic thought of Keynesian and Post-Keynesian thinkers.		
	Theory	Practical	Total
Credits	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

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	Overview of The Mercantilists School and the Physiocratic School; The Classical School:Adam Smith Theory of Moral Sentiments, Wealth of Nations, The Economic Laws of a Competitive Economy. Thomas Malthus: Historical and Intellectual Setting - Malthus's Population Theory. David Ricardo: The Currency Question, The Theory of Diminishing Returns and Rent, Theory of Exchange Value and Relative Prices, The Distribution of Income. Jeremy Bentham, Jean-Baptiste Say, Nassau William Senior, and John Stuart Mill.	15
II	Overview of Socialism: Henri Comte De Saint-Simon, Charles Fourier, Simonde De Sismondi, Robert Owen, Marxian Socialism: Marx's Theory of History, Assessment of Marx's Economics.	15
III	Alfred Marshall: Utility and Demand, Supply, Equilibrium Price and Quantity,Distribution of income, Increasing and Decreasing Cost Industries. The Neo Classical School - Departure from Pure Competition: PieroSraffa, Chamberlin, Joan Robinson.	15

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		Welfare Economics:Vilfredo Pareto, Arthur Cecil Pigou, Ludwig Von Mises, Oscar Lang, Kenneth Arrow, James M. Buchanan, Brief Discussion on A.K. Sen.	
IV		Overview of the Keynesian School, The Keynesian School: Developments since Keynes: Alvin H. Hansen, Paul A. Samuelson, The Post-Keynesians, The New-Keynesians. Overview of the Chicago School - Milton Friedman, Robert E Lucas, Jr., Gary S. Becker.	15
		Total Contact hours	60

Suggested Evaluation Methods

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

Part C-Learning Resources

Recommended Books/e-resources/LMS:

- Blaug, M. (1997). Economic theory in retrospect. Cambridge university press.
- Eric Roll, (2002) *History of Economic Thought*, Rupa and Co, New Delhi.
- Gide, C., &Rist, C. (2000). Early Histories of Economic Thought, 1824-1914: History of economic doctrines (Vol. 8). Taylor & Francis US.
- H W Spiegel. (1991) *Development of Economic Thought*, John Wiley and Sons, New York.
- Heilbroner, R. L. (2011). The worldly philosophers: The Lives, Times and Ideas of the Great Economic Thinkers. Simon and Schuster.
- Hunt, E. K., &Lautzenheiser, M. (2015). History of Economic Thought: A Critical Perspective. Routledge.
- Ingrid Hahne Rima, (2009) *Development of Economic Analysis*, Richard D. Irwin, inc. Illinois.
- John Fred Bell, (1953) *A History of Economic Thought*, The Ronald Press Company, New York.
- Joseph A Schumpeter, (2003) *Ten Great Economists, from Marx to Keynes*, OUP, New York.
- Kishtainy, N. (2018). A little history of economics. Yale University Press.
- Lewis H. Haney, (2011) *History of Economic Thought*, The Macmillan Company, New York.
- Morgan, M. S. (2012). The world in the model: How economists work and think. Cambridge University Press.
- Overton H. Taylor, (1960) *A History of Economic Thought*, McGraw-Hill Company, Inc. New York.
- Rodrik, D. (2015). Economics rules: Why economics works, when it fails, and how to tell the difference. OUP Oxford.
- Stanley L. Brue, (2013) *The Evolution of Economic Thought*, The Dryden Press, Fort Worth.
- Schumpeter, J. A. (2006). History of Economic Analysis. Routledge.
- Screpanti, E., &Zamagni, S. (2005). An Outline of the History of Economic Thought. Oxford University Press on Demand.

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Name of the Programme	M.A. Business Economics
Semester	**First**
Name of the Course	Seminar
Course Code	M24-BEC-109
CourseType: (CC/DEC/PC/Seminar/CHM/OEC/EEC)	Seminar
Level of the course	400-499
CourseLearningOutcomes(CLO) After completing this course, the learner will be able to:	CLO 1: Prepare and Present the given content to demonstrate the ability of effective communication. CLO2: To develop confidence to tackle queries and analytical ability.

	Seminar
Credits	2
	2
Teaching Hours per week	50
Max. Marks	0
Internal Assessment Marks	50
End Term Exam Marks	1 hour
Examination Time	

Instructions for Examiner: Evaluation of the seminar will be done by the internal examiner (s) on the parameters as decided by staff council of the department. There will be no external examination/viva-voce examination.

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Part-A Introduction

Name of Programme	M.A.Business Economics
Semester	**Second**
Name of the Course	Applied Micro Economics
Course Code	M24-BEC-201
Course Type:	CC-5
Level of the course	400-499
Pre-requisite for the course (if any)	n.a.
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1. Understand new advances in the theory of firm and think critically analyse economic problems in the context of firm. CLO 2. Adopt different analytical concepts and models in framing development and policy-relevant problems particularly factor pricing and income distribution. CLO 3. Understand the effects of various decisions on welfare of people through general equilibrium analysis. CLO 4. Apply Microeconomic tools to solve real life problems especially under uncertainty and game theory.

Credits	Theory	Tutorial	Total
	04	0	04
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

Instructions 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 questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Managerial Theories of Firm** Critical evaluation of marginal analysis; Average Cost Pricing model; Bain's Limit Pricing Theory; Baumol's Sales Revenue Maximization model (all four static models); Marris Model of Managerial Enterprise; Williamson's Model of Managerial Discretion.	15
II	**Factor Pricing** Pricing of factors of production (modern approach under perfect and imperfect market); Elasticity of technical substitution and factor shares; Technical progress and factor shares; Macro theories of distribution – Ricardo, Marx, Kalecki and Kaldor.	15
III	**General Equilibrium and Market Efficiency**	

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	The Walrasian approach to general equilibrium; Existence, stability and uniqueness of the partial equilibrium; Pareto Optimality; Maximization of social welfare; Market failure: Externalities, Public goods and asymmetric information; Moral Hazard and Adverse selection; The theory of second best; Economics of information – search costs, market signaling.	15
IV	**Choice Under Uncertainty** Inter-temporal choice in consumption; Economics of Uncertainty: Risk and Uncertainty in Demand Choices, Measuring Risk, Utility Theory and Risk Aversion, Gambling and Insurance, Risk aversion and Indifference curves, Reducing risk and uncertainty, Risk pooling and risk spreading, Mean-variance analysis and portfolio selection. **Theory of Games** Extensive forms and normal forms, dominant strategies and elimination of dominant strategies, Nash equilibrium, cooperative and non-cooperative games, sequential and simultaneous games, 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:

• Koutsoyiannis, A. (1979). *Modern Microeconomics (2nd Edition)*,Macmillan Press, London.
• Pindyck, R. &Rubinfeld, D. (2018). *Microeconomics (9th Edition)*,Pearson Education.
• Varian, H. (2000), *Microeconomic Analysis*, W.W. Norton, New York.
• Bain, J. (1958), *Barriers to New Competition*, Harvard University Press, Harvard
• Hirshleifer, J. & Glazer, A. (1997), *Price Theory and Applications*, Prentice Hall of India.
• Bronfenbrenner, M. (1979), *Income Distribution Theory*,Macmillan, London.
• Da Costa, G.C. (1980), *Production, Prices and Distribution*, Tata McGraw Hill, New Delhi.
• Boadway, R.W. & Bruce, N. (1984), *Welfare Economics*, Basil Blackwell, London.
• Graff, J. De V. (1957),*Theoretical Welfare Economics*, Cambridge University Press,
• Green, H. & Walsh, V. (1975), *Classical and Neo-Classical Theories of General Equilibrium*, Oxford University Press, London.
• Hansen, B. (1970), *A Survey of General Equilibrium Systems*, McGraw Hill, New York.
• Quirk, J. &Saposnik, R. (1968), *Introduction to General Equilibrium Theory and Welfare Economics*, McGraw Hill, New York.
• Weintrub, E.R. (1974), *General Equilibrium Theory*, Macmillan, London.
• Borch, K.H. (1968), *The Economics of Uncertainty*, Princeton University Press, Princeton.
• Diamond, P.A. & Rothschild, M. (Eds.). (1978), *Uncertainty in Economics: readings and*

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exercises, Academic Press, New York.
- Gravelle, H. &Rees,R. (2008), *Micro Economics*, Dorling Kindersley.
- Jehle, Geoffrey A. &Reny, Philip J. (2008), *Advanced Micro Economic Theory*. Dorling Kindersley.
- Varian, H. (2003),, *Intermediate Microeconomics*, East-West Press
- https://www.edx.org/learn/economics?hs_analytics_source=referrals&utm_source=mooc. org&utm_medium=referral&utm_campaign=mooc.org-topics

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PartA - Introduction

Name of Programme	M.A. Business Economics
Semester	**Second**
Name of the Course	Applied Macro Economics
Course Code	M24-BEC-202
CourseType	CC-6
Level of the course	400-499
Pre-requisite for the course (if any)	-
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1:Understand the various theories of demand for money. CLO 2:Learn and explain the theories of money supply and interest rates. CLO 3:Identify the phases of the business cycle/inflation and the problems caused by cyclical fluctuations in the market economy and to show an ability to reflect on how economic shocks affect aggregate economic performance in the short and long term. CLO 4: Explain the components of aggregate economic activity in an open economy framework.

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

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Theory of Demand for money** Classical Approach to Demand for Money – Quantity Theory Approach; Fisher's equilibrium; Cambridge Quantity theory; Keynes Liquidity Approach – Transaction; Precautionary and Speculative Demand for Money; Post Keynesian approaches to demand for money: Tobin (Portfolio balance approach), Baumol (Inventory theoretic approaches), Friedman (Restatement of quantity theory of money), Patinkin's real balance effect.	15
II	**Theory of Supply for money and Interest Rates** Measures of money supply and Monetary Aggregates; Determinants of money supply; Money Multiplier Approach; Behavioural model of Money Supply Determination; Instruments of Monetary control. Interest Rate and Theories of Determination of Interest Rate: Classical,	15

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		Loanable Funds and Keynesian; Theories of Term Structure of Interest Rates.	
III		**Theory of Inflation** Classical, Keynesian and Monetarist approaches; Structuralist theory of inflation; Philips curve analysis – Short run and long run Philips curve; Natural Rate of Unemployment hypothesis; Modified Philips curve - Tobin, Samuelson-Solow **Theory of Business Cycles** Business Cycle Theories of Kaldor, Samuelson, Hicks, Control of business cycles – relative efficacy of monetary and fiscal policies.	15
IV		**Open Economy Macroeconomics** 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. **Recent Developments** Role of Expectations in Economics; Adaptive Expectation hypothesis; New Classical Macroeconomics: Rational Expectation Hypothesis, Policy, Lucas Supply Curve.	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, Gregory N. (2003),*Macroeconomics*, Worth Publishers.
- Romer, David (2012),*Advanced Macroeconomics*, McGraw Hill Education.
- Levacic, Rosalind &Rebmann, Alexander (2015),*Macroeconomics*. Macmillan, London.
- Mishkin, F.S. (2016),*The Economics of Money Banking and Financial Markets,*Pearson.
- Bain, K. & Howells, P. (2009), *Monetary Economics: Policy and its Theoretical Basis,* Macmillan International Higher Education.
- Handa, Jagdish (2000), *Monetary Economics*, Routledge, London
- Gali, J. (2015),*Monetary Policy, inflation and Business Cycles,*Princeton University Press
- Frisch, H. (1983),*Theories of Inflation,*Cambridge University Press.
- Romer, D. &Mankiw, N. Gregory (1995),*New Keynesian Economics (Volume-2)*, MIT Press.
- Sheffrin, Steven M. (1996),*Rational Expectations*, Cambridge University Press
- Galbacs, Peter (2015),*The Theory of New Classical Macroeconomics: A Positive Critique,* Springer
- https://nptel.ac.in/courses/130104114

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Session: 2024-25			
Part A – Introduction			
Name of Programme	M.A. Business Economics		
Semester	**Second**		
Name of the Course	Statistical Methods for Business		
Course Code	M24-BEC-203		
Course Type	CC-7		
Level of the course	400-499		
Pre-requisite for the course (if any)	n.a.		
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Analyse various data types and sampling techniques proficiently. CLO 2:Estimate parameters accurately and construct confidence intervals effectively. CLO 3: Conduct hypothesis tests confidently using parametric methods and understand the Neyman-Pearson Lemma. CLO 4: Choose and apply appropriate nonparametric tests based on data characteristics with confidence. - CLO 5: Demonstrate the ability to solve the problems mentioned in CLO 1-4 through 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	100	0	100
Examination Time	3 hours		
Part B-Contents of the Course			

Instructions 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 questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Understanding Data and Sampling Techniques** Types of data and statistical analysis procedures: univariate, bivariate and multivariate (only overview); Census and Sampling, Basic concepts of sampling, Techniques of Sampling: Probability and Non Probability Sampling. Errors Associated with Sampling: Sampling and Non- Sampling Errors; Types and potential causes. Sample Size, Approaches to Sample size determination : Precision Rate and confidence interval. **Self-Study Contents (not relevant for exams):** Measures of central tendency, dispersion, correlation and Regression Analysis.	12
II	**Estimation Methods and Interval Estimation** Estimation: Concept of an estimator and its sampling distribution, Desirable	

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	properties of a good point estimator. Point Estimation Methods: Least Squares Estimation (LSE), Maximum Likelihood Estimation (MLE), Method of Moments (MOM). Interval Estimation: Confidence Intervals; Factors affecting the width of confidence intervals. **Self-Study Contents (not relevant for exams):** Regression Analysis, Probability theory and Probability distributions	11	
III	**Hypothesis Testing and Parametric Tests** Introduction to Hypothesis Testing: Basic Concepts, Null and Alternative Hypotheses, Type I and Type II Errors, Significance Level and P-Values, Critical Regions, Steps involved in hypothesis testing, Neyman-Pearson Lemma. Common parametric Tests: Z-test, t-test, F-test and ANOVA	11	
IV	**Nonparametric Tests** Introduction to non-parametric tests and their advantages. Common Non-Parametric Tests: Chi Square test, Mann-Whitney U test, Wilcoxon signed-rank test, Kruskal-Wallis test, Friedman Test and Kendall's Tau Test. Choosing between parametric and non-parametric tests based on data characteristics.	11	
V	**Practicals:** 1. Students will prepare a Practical file containing 4 Practicals from each unit. 2. Practicals may be done using the software chosen by the teacher. 3. The external examiner shall take the written exam followed by viva voce. 4. Syllabus contains all the contents mentioned in the four units.	30	

Total Contact Hours	75

Suggested Evaluation Methods

Internal Assessment: 30		End Term Examination: 70	
Theory	20	**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, Viva-Voce, write-up and execution of the Practical	
Seminar/Demonstration/Viva-voce/Lab records etc.:	5		
Mid-Term Exam:	-		

Part C-Learning Resources

Recommended Books/E-Resources/LMS:
- Anderson, David R., Sweeney, Dennis J. & Williams, Thomas A. (2014).Essentials of Statistics for Business and Economics. South-Western Cengage Learning, USA.
- Barrow, M. (2017). Statistics for Economics, Accounting and Business Studies. Pearson Education.
- Casella, G., & Berger, R. L. (2002). Statistical inference (2nd ed.). Duxbury Press.
- Croxton, F. E., Cowden, D. &Kliein, S. (1951). Applied General Statistics. Prentice Hall, New Delhi.
- Cumming, G. (2009). The new statistics: Why and how. Psychology Press.
- Denis, Daniel J. (2018).SPSS Data Analysis for Univariate, Bivariate, and Multivariate Statistics. John Wiley & Sons Inc., USA.
- Hair, J. F., Black, W. C., Babin, B. J., & Anderson, R. E. (2019). Multivariate data analysis (8th ed.). Pearson Education.

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- Hair, J. F., Black, W. C., Babin, B. J., & Anderson, R. E. (2019). Multivariate data analysis (8th ed.). Pearson Education Limited.
- Hamilton, J. D. (1994). Time series analysis. Princeton University Press.
- Karmal, P.H. &Polasek, M. (1978). Applied Statistics for Economists. Pitman, Australia.
- Lehmann, E. L., & Romano, J. P. (2005). Testing statistical hypotheses (3rd ed.). Springer Science & Business Media.
- Levine, D. M., Stephan, D. G., &Krehbiel, T. C. (2014). Statistics for social data analysis (5th ed.). Pearson Education.
- McLachlan, G., & Peel, D. (2000). Finite mixture models. Wiley.
- Mittelhammer, R. C. (2012). Mathematical Statistics for Economics and Business. Springer-Verlag New York, Inc.
- Montgomery, D. C., &Runger, D. C. (2010). Applied statistics and probability for engineers and scientists (5th ed.). Wiley.
- Naghshpour, S. (2012). Statistics for Economics. Business Expert Press.
- Shao, J. (2003). Mathematical statistics (2nd ed.). Springer Science+Business Media.
- Sharma, J.K. (2012). Business Statistics. Dorling Kindersley (India) Pvt. Ltd., New Delhi
- Sharma, J.K. (2012). Business Statistics. Dorling Kindersley (India) Pvt. Ltd., New Delhi.
- Speigal, M. R. (1972). Theory and Problems of Statistics. McGraw Hill Book, London

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<table>
<tr><td colspan="4" align="center">**Session: 2024-25**</td></tr>
<tr><td colspan="4" align="center">**PartA – Introduction**</td></tr>
<tr><td colspan="2">Name of Programme</td><td colspan="2">M.A.Business Economics</td></tr>
<tr><td colspan="2">Semester</td><td colspan="2">**Second**</td></tr>
<tr><td colspan="2">Name of the Course</td><td colspan="2">Data Analytics for Business Economists II</td></tr>
<tr><td colspan="2">Course Code</td><td colspan="2">M24-BEC-204</td></tr>
<tr><td colspan="2">CourseType</td><td colspan="2">CC-8</td></tr>
<tr><td colspan="2">Level of the course</td><td colspan="2">400-499</td></tr>
<tr><td colspan="2">Pre-requisite for the course (if any)</td><td colspan="2"></td></tr>
<tr><td colspan="2">CourseLearningOutcomes (CLO)
After completing this course, the learner will be able to:</td><td colspan="2">CLO 1: Understand, apply and solve the problems on univariate and bivariate data besides hypothesis testing in a software.
CLO 2: Understand and compute various regressions in a software.
CLO 3: Understand and compute the problems of Autocorrelation, Multicollinearilty and heteroskedasticity using a software.
CLO 4: Understand and compute future value, present value and financial ratios using a software.
- -
CLO 5: Demonstrate the ability to solve the contents using a software.</td></tr>
</table>

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	3 hours	

<table>
<tr><td colspan="3" align="center">**Part B-Contents o fthe Course**</td></tr>
<tr><td colspan="3">**Instructions 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 unitand the compulsory question.All questions will carry equal marks.</td></tr>
</table>

Unit	Topics	Contact Hours
I	1. Interval estimation 2. Hypothesis testing – one sample and two samples t test, Wilcoxon signed- Rank test, Mann – Whitney U test, ANOVA 3. Construction of Index Numbers - Deflating a Series by Price Indexes 4. Time Series Analysis and Forecasting. **SELF STUDY CONTENTS (not relevant for exams):** Excel functions, SPSS, E-VIEWS, STATA	11
II	5. Regression analysis – multiple 6. Panel data Analysis 7. Logistic Regression	11

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	8. Economic Forecasting Using Regression **SELF STUDY CONTENTS (not relevant for exams):** Excel functions, SPSS, E-VIEWS, STATA	
III	9. The problem of Autocorrelation 10. The problem of Multicollinearilty 11. The problem of heteroskedasticity 12. Economic Forecasting using ARIMA Modelling – Box Jenkins, ACF, PACF **SELF STUDY CONTENTS (not relevant for exams):** Excel functions, SPSS, E-VIEWS, STATA	11
IV	13. Financial Statement Ratio Analysis 14. Common Sized Financial Statements and DuPont Analysis 15. Future Value Lump Sum Calculations, Simple & Compound Interest; Present Value Lump Sum Calculations and PV Function;Future Value For Lender Or Borrower 16. Asset Valuation Using Discounted Cash Flow Analysis and PV Function **SELF STUDY CONTENTS (not relevant for exams):** Excel functions, SPSS, E-VIEWS, STATA	12
V	**Practicals:** 1. Students will prepare a Practical file containing 4 Practicals from each unit. 2. Practicals may be done using the software chosen by the teacher. 3. The external examiner shall take the written exam followed by viva voce. 4. Syllabus contains all the contents mentioned in the four units.	30
	Total Contact Hours	75

Suggested Evaluation Methods				
Internal Assessment: 30			**End Term Examination: 70**	
Theory	20	**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, Viva-Voce, write-up and execution of the Practical		
Seminar/Demonstration/Viva-voce/Lab records etc.:	5			
Mid-Term Exam:	-			

Part C-Learning Resources

Recommended Books/e-resources/LMS:

- Gary Koop: Analysis of economic data, John Wiley & Sons, 2005
- Thomas Cleff: Applied Statistics and Multivariate Data Analysis for Business and Economics: A Modern Approach Using SPSS, Stata, and Excel, Springer
- Kurt Jechlitschka, Dieter Kirschke and Gerald Schwarz: Microeconomics using Excel: Integrating economic theory, policy analysis and spreadsheet modeling, Routlage
- ShmuelOluwa: Hands-On Financial Modeling with Excel for Microsoft 365, Packt Publishing

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- Abdul kader Aljandali and MotasamTatahi: Economic and Financial Modelling with EViews-A Guide for Students and Professionals
- Joaquim P. Marques de Sá: Applied statistics using SPSS, STATISTICA, MATLAB and R, Springer
- Robert P. Burns, Richard Burns : Business Research Methods and Statistics Using SPSS, Sage.

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Session: 2024-25			
PartA – Introduction			
Name of Programme	M.A. Business Economics		
Semester	**Second**		
Name of the Course	Agricultural Development and Policy		
Course Code	M24-BEC-205		
CourseType	DEC-2		
Level of the course	400-499		
Pre-requisite for the course (if any)			
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand the nature and scope of agricultural economics along with Indianagricultural scenario. CLO 2: Explore how different approaches can improve farming practices, create jobs, and boost food production CLO 3:To Understand the Different Challenges in Indian Agriculture CLO 4: To analysis of current governmental policies and strategies for surviving in the globalizing world		
	Theory	Practical	Total
Credits	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 o fthe Course			

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Introduction To Agriculture Economics** Agricultural Economics – Definition, Nature and Scope, Types of Agriculture: Subsistence, Commercial Agriculture,Rural Horticulture. Dairying; Role of agriculture in Economic development; Indian Agriculture Scenario,Post-Independence period, Land Reforms, Green Revolution	15
II	**Theories of Agricultural Development** Lewis theory; Schultz's Transformation of Traditional Agriculture; Mellor's Model of Agricultural Development; Boserup Model of Agriculture Development; Ranis – Fei Model of Agriculture Development; Todaro's model of rural-urban migration and unemployment; Hayami - Ruttan Induced Innovation Hypothesis	15
III	**Contemporary Challenges in Indian agriculture** Agricultural Productivity in India – Causes of low productivity and suggestions to increase productivity in India; Food security; Agriculture marketing, marketable surplus,Agricultural finance; Rural credit; Energy use in agriculture, Problems of Agricultural Labour,measures to improve	15

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	the position, Factors responsible for unemployment.		
IV	**History and policies for Agricultural Development in India** Trends in production since1950;National Food Policy; Agricultural policy and Rural Development, Agricultural pattern – Food crops, Commercial crops, National Agricultural price policy, Trends in India's agricultural exports and imports and implication, W.T.O and Indian Agricultural challenges and priorities in the Global economy, Agricultural subsides.		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: • **Recommended Books/E-Resources/LMS:**

- Bhalla, G.S. (2007), *Indian Agricultural Since Independence*, National Book Trust, India.
- Datt, G. & Mahajan, A (2020) *Datt & Sundharam's Indian Economy*, S.Chand Publishers, New Delhi.
- Ezaz Anwar, Md (2019), *Agriculture and Economic Development in India*, New Century Publications
- Gardener, Bruce L., &Rausser, Gordon C. (Eds.) (2002), *Handbook of Agricultural Economics, Vol.2A- Agriculture and Its External Linkages*, Amsterdam, Elsevier Science B.V
- Goswami, B, Bezbaruah, M. P. &Mandal, R. (Eds.), (2017) *Indian Agriculture after the Green Revolution: Changes and Challenges*, Routledge, New York
- Lekhi,R.k&singh J, (2019). Agricultural Economics An Indian Perspective ,Kalyani publication
- Moss, C.B. (2010). *Risk, Uncertainty and the Agricultural Firm*, World Scientific Publishing Co. Pte. Ltd. Singapore.
- Paroda, R. S. (2018), *Reorienting Indian Agriculture: Challenges and Opportunities*, CABI, Oxfordshire, UK.
- Ray, P.K. (2013), *Agricultural Insurance: Theory and Practice and Application to Developing Countries*, Pergamon Press, Great Britain.
- Singh, Kuldeep (2010) Agricultural Trajectories and Environment Dilemma: Some Evidence from Haryana.*Agricultural Situation in India*, 67(3).
- Westley, J. R. (2019), *Agriculture and Equitable Growth: The Case of Punjab-Haryana*, Routledge, New York.

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Session: 2024-25

Part A – Introduction

Name of Programme	M.A. Business Economics
Semester	**Second**
Name of the Course	Management Concepts and Organization Behaviour
Course Code	M24-BEC-206
Course Type	DEC-2
Level of the course	400-499
Pre-requisite for the course (if any)	
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand management functions, theories, and develop Mintzberg's roles alongside essential skills. CLO 2: Grasp planning importance, organizational structures, delegation, and control processes. CLO 3: Comprehend organizational behaviour, individual traits, and group dynamics. CLO 4: Gain insights into leadership theories, communication methods, organizational culture, and navigating global contexts.

	Theory	Practical	Total
Credits	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		

PartB-Contents of the Course

Instructions 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 questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Introduction to Management and Managerial Roles** Introduction to Management: Definition, functions, and evolution of management, Management Theories: Classical, behavioral, contingency, and modern management theories, Managerial Roles and Skills: Mintzberg's managerial roles, technical, interpersonal, and conceptual skills.	15
II	**Planning, Organizing, and Controlling** Planning: Importance, types of plans, goal setting, and strategic planning process. Organizing: Organizational structure, authority, delegation, and departmentalization; Controlling: Control process, types of control, and performance measurement.	15
III	**Organizational Behavior and Group Dynamics** Understanding Organizational Behavior: Definition, scope, and importance of organizational behavior. Individual Behavior in Organizations: Personality, perception, attitudes, values, and motivation; Group Dynamics: Types of groups, stages of group development, and group cohesion.	15

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IV	Leadership, Communication, Culture, and Global Context	
	Leadership and Power: Theories of leadership, sources of power, and leadership styles; Communication in Organizations: Types of communication, barriers to communication, and effective communication techniques; Organizational Culture and Change: Definition of organizational culture, types of organizational culture, and managing organizational change; Organizational Behavior in Global Context: Cross-cultural differences, diversity management, and global teams.	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:

- Bose, D. Chandra (2012). Principles of Management and Administration. PHI Learning Private Limited, Delhi.
- Brockmann, Erich N. & Anthony, William P. (2016). Tacit knowledge and strategic decision making. Group & Organization Management. 27 (4), 436–455.
- Coase, Ronald (1937). The Nature of the Firm. Economica, 4(16), 386–405.
- Deming, W. Edwards (1994). Out of the Crisis. The MIT Press.
- Dwivedi, R.S. (2001). Human Relations and OrganisationalBehaviour. McMillan Press.
- Frensch, Peter A. &Funke, Joachim (Eds.). (1995). Complex problem solving: the European perspective. Hillsdale, NJ: Lawrence Erlbaum Associates.
- Gagne, Nana Okura (2017). Correcting Capitalism: Changing Metrics and Meanings of Work among Japanese Employees. Journal of Contemporary Asia. 48 (1), 67–87.
- Handy, Charles (1990). Inside Organizations: 21 Ideas for Managers. London: BBC Books.
- Handy, Charles (2005). Understanding Organizations. London: Penguin Books.
- Herbert, Alexander Simon (1977). The New Science of Management Decision. Prentice-Hall.
- Hewlett, R. (2006). The Cognitive leader. Rowman& Littlefield Pub Inc.
- Hindle, Tim (2008). Guide to Management Ideas and Gurus. New York: Bloomberg Press.
- https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1540-4781.1997.tb05515.x
- Kahneman, Daniel &Tversky, Amos, (Eds.). (2000). Choices, values, and frames. New York; Cambridge, UK: Russell Sage Foundation; Cambridge University Press
- Koontz , H., Weihrich, H. &Cannice, Mark V. (2020). Essentials of Management: An International, Innovative and Leadership Perspective. McGraw Hill Education (India) Private Limited, Chennai.
- LaFollette, William R. & Fleming, Richard J. (1977). The Historical Antecedents of Management by Objectives. Academy of Management Proceedings. 1977 (1), 2–5.
- Luthans, Fred (2011). OrganisationalBehaviur. Tata McGraw Hill.
- Mio, C., Venturelli, A. &Leopizzi, R. (2015). Management by objectives and corporate social responsibility disclosure:
- Passenheim, O. (2010). Change Management. Ventus Publishing (Available for free download at bookboon.com).

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- Rudani, R.B. (2011). Management and OrganisationalBehaviour. Tata McGraw Hill Education Private Limited.
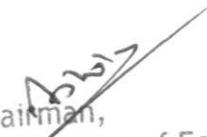- Sudha, G.S. (2003). Management Concepts and OrganisationalBehaviour. RBSA Publishers.

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Session: 2024-25	
PartA – Introduction	
Name of Programme	M.A. Business Economics
Semester	**Second**
Name of the Course	Development of Economic Thought in India
Course Code	M24-BEC-207
CourseType	DEC-2
Level of the course	400-499
Pre-requisite for the course (if any)	n.a.
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: To understand the contribution of ancient economic thinkers in India. CLO 2: To understand the contribution of Gokhle, Joshi, Vakil etc. CLO 3: To understand the contribution of Mehta, Gadgil and Rao. CLO 4: To understand the contribution of Gandhi, Nehru and Ambedkar.

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 o fthe Course

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	*Ancient Economic Thought:* Kautilya'sArthshastra - Importanceof Agriculture and Animal Husbandry, Labour, Trade, Population, Slavery, Welfare State, Private Property - Consumption and Production - Economic Functions of State. *DadadhaiNaoroji:* Poverty, Taxation, Public Debt, Drain Theory. *DinshawEduljiWacha:* Causes of Famines, Industrial Development, Currency Policy, Importance of Economic, Commerce and Statistics.	15
II	*Gopal Krishna Gokhale:* Public Expenditure and Financial Reforms. *N.M. Joshi:* Labour Conditions, Healthy Trade Unionism, Lack of Government Interest in Public Welfare. *K.T. Shah:* Indian Finance, Trade, Tariffs and Transport, Municipal Finance, Economic Planning. *P.C. Mahalanobis*: Neo-Marxian Model of Economic Development *C.N. Vakil:* Fiscal Policy of India, Financial Developments in India. *P.R. Brahmananda:* Wage-Goods Model.	15
III	*J.K. Metha:* State of Wantlessness, Static Economic and Dynamic	15

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	Economics, Consumer's Surplus, Welfare Economics,Growth and investment. *D.R.Gadgil:* Industrial Evolution, Industrial Labour, Planned Economic Development, Price Policy. *B.N. Ganguli:* Devaluation of the Rupee, Population and Development. Multinational Corporations. *V.K.R.V.Rao:* National Income of India, Income Tax in India, Full Employment and Economic Development, Deficit Financing.	
IV	*M.K. Gandhi:* Three Phases of Gandhi's Economic Thought, Welfare Economy, Decentralization, Regeneration of Villages - Khadi Industry,Doctrine of Trusteeship, Labour Welfare, Exchange Economy,Sarvodaya. *Jawaharlal Nehru:* Democracy, Planning, Large-Scale Industries, Rural Development, Socialism. *B.R. Ambedkar:* Financial Economics, Agricultural Economics, Economics of Caste and Socialism. *A.K. Sen:* Poverty, Famine, Welfare Economics.	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:

- BasuKaushik, (1995) *Of Peoples and Places,* Oxford University Press, Delhi
- Bhatia H L, (1980) *History of Economic Thought,* Vikas Publishing House Pvt Ltd, Ghaziabad.
- DattaBhabatosh, (1978) *Indian Economic Thought,* Tata McGraw-Hill Pub., Company Ltd, New Delhi.
- Lokanathan V, (2004) *A History of Economic Thought,* S. Chand and Company Limited, New Delhi
- Madan G R, (2004) *Economic Thinking in India,* S Chand and Company Ltd, New Delhi.
- Shamasastry, R. (2012) *Kautilya'sArthasastra,* Mysore Printing and Publishing House, Mysore.
- Srivastava S K, (2002) *History of Economic Thought,* S Chand and Company Ltd, New Delhi.
- Balasubramanyam. V.N, (2001) *Conversations with Indian Economists*, Macmillan Ltd, New Delhi.

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Part A – Introduction

Name of the Programme	Common to all PG Programmes
Semester	**Second**
Name of the Course	Constitutional, Human and Moral Values, and IPR
Course Code	M24-CHM-201
Course Type	CHM
Level of the course	400-499
Pre-requisite for the course (if any)	n.a.
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO-1: Learn the different Constitutional Values, Fundamental rights and duties enshrined in the India Constitution. CLO-2: Understand humanism, human virtues and values, and ide of International peace. 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. 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		

PartB – Contentsofthe Course

Instructions 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 unitand the compulsory question. All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Constitutional Values** 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** 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 (*VasudhaivKutumbkam*).	7
III	**Moral Values and Professional Conduct** Understanding Morality and Moral Values; Moral Education and Character Building; Ethics of Relations: Personal, Social and Professional;	8

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	Introduction to Gender Sensitization; Affirmative approach towards Weaker Sections (SCs, STs, OBCs, EWS& DAs); Ethical Conduct in Higher Education Institutions; Professional Ethics.	
IV	**Intellectual Property Rights** 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.

	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. L., *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, P.L. & 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 J. 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: Club 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 PrivateLimited.
- Palekar, Subhas, *How to practice Natural Farming*, Pracheen (Vaidik) KrishiTantraShodh, 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 &

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Briggs, Britain, 1973.

- Singles, Shubhamet. 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.
- A. Gandhi, *Right Here Right Now*, Cyclewala Productions.

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Session: 2025-26	
PartA – Introduction	
Name of Programme	M.A. Business Economics
Semester	**Third**
Name of the Course	International Economics
Course Code	M24-BEC-301
CourseType	CC-9
Level of the course	500-599
Pre-requisite for the course (if any)	n.a.
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1:Understand the role and significance of International Economics in the global economy CLO 2:Learn, compare and critically evaluate the new trade theories and their relevance in today's scenario. CLO 3: Comprehend the reasons behind and impact of trade restrictions and protectionist policies, including tariffs and non-tariff barriers. CLO 4:Understand, explain and present various approaches of foreign exchange rate determination especially in a forward market and Comprehend various models of balance of payment. Learn and explain macro adjustment policies in an open economy framework.

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		

PartB – Contentsofthe Course		

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Fundamentals of International Trade** Introduction to International Trade and world economy; importance of international economics; Trade Theories: mercantilists view on trade, trade based on absolute and comparative advantage, comparative advantage and opportunity cost, factor endowment and Hecksher - Ohlin theory, Stopler - Samulson theorem, Leontief paradox and factor reversal	15
II	**New Trade Theories** Kravis and Linder Thoery: role of dynamic factors, i.e. changes in tastes, technology and factor endowments in explaining the emergence of trade; rybnszynski theorem – concept and policy implications of immiserzing growth; causes of emergence and measurement of intra industry trade and its impact of developing economies. gains from trade, distribution of gains, meaning and types of terms of trade, Mill's doctrine, offer curves	15

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	and equilibrium terms of trade, effects of change in demand and supply, problems of measurement of terms of trade	
III	**Trade restrictions & Rationale for Protection** Meaning of tariff, partial equilibrium analysis of a tariff, theory of tariff structure, general equilibrium analysis of a tariff in a small country, optimum tariff, non-tariff trade barriers and new protectionism, political economy of protectionism. Infant industry argument; concept of effective protection; political economy of Non-Trade Barriers (NTB). Regionalism versus Multilateralism.	15
IV	**Balance of Payment** Concepts, structure and disequilibrium in Balance of payments; Monetary model of BOP under fixed and flexible exchange rates, Devaluation and BOP crisis- Effects of Devaluation; elasticity and Absorption Approach-Marshall- Lerner Condition, J-Curve; Foreign trade multiplier. **Open Economy Adjustment Policies** Internal and external balance; Swan Diagram, Assignment Problem; Expenditure Switching and changing policies; Mundell-Fleming Model-Combining monetary and fiscal policies.	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:
- Dominick Salvatore (2004), Introduction to International Economics , Wiley India (Jw)
- Paul R. Krugman, Maurice Obstfeld& Marc Melitz (2013),International Economics: Theory and Policy, Pearson Publication.
- H G Mannur (1999), International Economics, Vikas Publishing House.
- Södersten, Bo (1994), International Economics,Houndmills, Basingstoke, Hampshire: Macmillan.
- Batra, R. N. (1973), *Studies in the Pure Theory of International Trade*,St. Martin's Press, August.
- Bhagwati, J. N. (1987), *International trade: Selected readings*. MIT Press, Cambridge.
- Ethier, W. J. (1995),*Modern International Economics*, W.W. Norton & Co.
- Heffernan, S. & Sinclair, P. (1991),*Modern International Economics*, Wiley-Blackwell
- e-PGPathshala (inflibnet.ac.in)
- Unit-18.pdf (egyankosh.ac.in)

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Session: 2025-26			
Part A – Introduction			
Name of Programme	M.A. Business Economics		
Semester	**Third**		
Name of the Course	Economics of Growth and Development		
Course Code	M24-BEC-302		
CourseType	CC-10		
Level of the course	500-599		
Pre-requisite for the course (if any)	n.a.		
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: To appreciate and interpret the nature of Economic Growth & Development with a view to measure and mark its trajectory. CLO 2: To understand the classical growth models, role of innovations and stages of growth with their historical origins. CLO 3: To comprehend the neo-classical and Cambridge growth models with mathematical treatment. CLO 4: To be aware of the new growth theory with focus on human resource development, knowledge, technical progress.		
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			

Instructions 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 questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Concepts & Measurement of Economic Development** Evolution of concept of Economic growth, Economic development, Capability Approach; Goulet's core values of development Historical perspective of Economic Growth and its relevance; Structural diversity and common characteristics of developing nations, Global North and the Global South divide, Measuring Development: Income Measures, Basic Needs Approach, PQLI, HDI, Sustainable development and Climate Change, Sustainable Development Goals. **SELF STUDY CONTENTS** (not relevant for exams): Indicators of	15

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		Economic Development, World Bank Categorization of Countries on the basis of per capita income Millennium Development Goals.	
II	**Problems of Underdevelopment**: Poverty, Inequality and Development: Measurement, Impact and Policy options, Dualism, Centre-Periphery Model and Process of Cumulative Causation, Lewis model of economic development, Ranis and Fei model, Jorgenson's model, Balanced and Unbalanced growth, Linkage effect Hirschman and Nurkse, Rostow's Theory of Stages of Economic Growth.	15
		SELF STUDY CONTENTS (not relevant for exams):Unequal Distribution of World GDP, Vicious Circle of Poverty, Basic concept of Dualism	
III	**Strategies for Growth and Development** Contributions of Adam Smith, Ricardo, Karl Marx and Schumpeter, Harrod and Domar: Instability of equilibrium; Neo Classical Growth Models: Solow and Meade; Cambridge Growth Models: Joan Robinson, Kaldor.	15
		SELF STUDY CONTENTS (not relevant for exams): Comparison of Basic Assumptions of different School of Thoughts	
IV	**New Growth Theory:** Production Function Approaches: Learning by Doing; Total Factor Productivity; Growth Accounting, Ramsay's rule and optimal saving; Golden Rule of Accumulation; Technical Progress: Hicks and Harrod; Endogenous Growth Models (Romer, Uzawa-Lucas, AK).	15
		SELF STUDY CONTENTS (not relevant for exams): Role of Health and Education in Economic Development.	
Total Contact Hours			60

Suggested EvaluationMethods			
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:
- Adelman, I. (1961).Theories of Economic Growth and Development, Stanford University Press, Stanford.
- Barro, R. J. &Sala-i-Martin, X. (2004). Economic Growth, MIT Press.
- Behrman, S. &Srinivasan, T.N (Eds.).(1995). Handbook of Development Economics, Vol. 3. Elsevier, Amsterdam.
- Chenery, H. &Srinivasan, T.N. (Eds.) (1989). Handbook of Development Economics, Vol. 1 & 2. Elsevier, Amsterdam.
- Ghatak, S. (1986). An Introduction to Development Economics, Allen and Unwin, London.
- Gillis, M., Perkins, D.H., Romer, M. & Snodgrass, D.R. (1992). Economics of Development, W.W. Norton, New York.

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- Higgins, B. (1959). Economic Development, W.W. Norton, New York.
- Jones, H.G. (1975). An introduction to modern theories of economic growth, London: Thomas Nelson Ltd.
- Kindleberger, C.P. (1977).Economic Development, McGraw Hill, New York.
- Meier, G.M. & Rauch, J.E. (2005).Leading Issues in Economic Development. Oxford University Press, New Delhi.
- Schultz, Paul T. & Strauss, J. (Eds.). (2008). Handbook of Development Economics, Vol. 3. Elsevier, Amsterdam.
- Sen, A.K. (Ed.). (1990). Growth Economics, Penguin, Harmondsworth.
- Thirlwall, A.P. (1999). Growth and Development, Macmillan, U.K.
- Todaro, M.P. & Smith, S.C. (2003). Economic Development, Pearson Education
- https://youtube.com/playlist?list=PLwdnzlV3ogoXxAT0AGHAQ3iMswK39C6gS&si=faFLJLVTRKQCdL87
- https://youtube.com/playlist?list=PLUl4u3cNGP61kvh3caDts2R6LmkYbmzaG&si=JpHs-HHu-tkpyXX9
- https://youtu.be/UVAT8-ShzIc?si=-QxZAaYZsSyfBaLN

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PartA – Introduction

Name of Programme	M.A.Business Economics
Semester	**Third**
Name of the Course	Corporate Financial Economics
Course Code	M24-BEC-303
CourseType	DEC-3
Level of the course	500-599
Pre-requisite for the course (if any)	n.a.
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand, apply and solve the time value of money problems and its applications in investment evaluation criteria. CLO 2: Understand and compute various costs of capital and design an optimal capital structure. CLO 3: Understand theoretically how dividend decisions are taken in corporate sector and design a dividend policy for a firm. CLO 4: Understand the management of working capital and its components, and solve problems in relation thereto.

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		

PartB – Contentsofthe Course

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Capital Budgeting** Time Value of Money; Goals of Finance; Economics of capital Budgeting - Investment Criteria, Estimation of project Cash Flows, Risk Analysis in Capital Budgeting, Computation of Cost of Capital.	15
II	**Capital Structure and Firm Value** Economics of Capital Structure and Firm Value - Net Income Approach, Net Operating income Approach, Modigliani and Miller Approach; Analysis of Optimal Capital structure – EBIT & EPS Analysis, ROI & ROE Analysis, Operating and Financial Leverage.	15
III	**Dividends and Working Capital** Economics of Dividends- Walter Model, Gordon Model, Modigliani and	15

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	Miller Model; Economics of Working Capital- Estimation of Working Capital, Financing of working Capital. Cost-Volume-Profit Analysis.		
IV	**Cash, Receivables and Inventory**		15
	Economics of Cash – Cash Budgeting and its Simulation, Optimal Cash balance, Baumol Model, Miller and Orr Model; Economics of Receivables; Economics of Inventory – EOQ Model, Pricing of Raw materials, Monitoring and Control of Inventories.		

	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:

- Berk, Jonathan, and DeMarzo, Peter (2007), Corporate Finance, Pearson International.
- Brealey, R.A., Myers, S.C. and Allen, F. (2003), Principles of Corporate Finance, 7th Ed, McGrowHill.
- Brittain, J.A. (1978). Corporate Dividend Policy. Brookings Institution, USA.
- Chandra, Prasanna (2011). Financial Management: Theory and Practice. Tata McGraw Hill.
- Copeland, T., Weston, F., and Shastri, K. (2004), Financial Theory and Corporate Policy, 4th Ed., New York: Addison-Wesley.
- Harold Bierman, Jr. &Smidt, Seymour (2007). The Capital Budgeting Decision: Economic Analysis of Investment Projects. Routledge.
- Kent Baker, H. & and Martin, Gerald S. (2011). Capital Structure and Corporate Financing Decisions. Wiley Publishers.
- Mehta, D. R. (1974). Working Capital Management. Prentice- Hall.
- Ross, Stephen, Westerfield, Randolph, Jaffe, Jaffrey (February 2002), Corporate Finance, 6th Ed., McGraw-Hill Companies.
- Van Horne, J.C. (2002). Financial Management and Policy. Pearson Education.

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<table>
<tr><td colspan="5" align="center">Session: 2025-26</td></tr>
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Session: 2025-26				
PartA – Introduction				
Name of Programme	M.A. Business Economics			
Semester	**Third**			
Name of the Course	Human Resource Management			
Course Code	M24-BEC-304			
CourseType	DEC-3			
Level of the course	500-599			
Pre-requisite for the course (if any)	n.a.			
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: To understand the basics of human resource management. CLO 2: To learn the strategies of recruitment and selection. CLO 3: To learn the training and development process. CLO 4: To understand the policies for employee welfare and industrial relations.			
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			

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PartB – Contentsofthe Course

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Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	Introduction to HRM: Concepts and Perspectives of Human Resource Management; Human Resources Management in a Changing Environment; Managerial and Operative Functions of HRM.	15
II	Recruitment, Placement and Retention Strategies: Human Resource Planning; Job Analysis; Methods of Manpower Search; Attracting, Selecting and Retaining Human Resources; Induction and Socialization	15
III	Training and Development: Manpower Training and Development; Performance Appraisal and Potential Evaluation; Career and Succession Planning; Talent Management.	15
IV	Employee Relations and Compensation Administration: Job Evaluation and Compensation Management; Incentives and Employee Benefits; Employee Welfare; Industrial Relation; Employee Separation Practices, HR Accounting and audit.	15
	Total Contact hours	60

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Suggested Evaluation Methods

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Internal Assessment: 30		End Term Examination: 70	
➤ **Theory**	30	➤ **Theory:**	70
• Class Participation:	5	Written Examination	
• Seminar/presentation/assignment/quiz/class test etc.:	10		

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• Mid-Term Exam:	15	
Part C-Learning Resources		

Recommended Books/e-resources/LMS:

- Aswathappa, K., Human Resource and Personnel Management, Tata McGraw Hill.
- Dessler, G., Human Resource Management, Pearson Education.
- Venktesh, D.N. &Jyothi P., Human Resource Management, Oxford University Press.
- Bohlander, G. & Snell, S., Human Resource Management, Cengage Learning.
- Patnayak, B., Human Resource Management, PHI Learning.
- Rao,V.S.P., Human Resource Management, Excel Books.
- Cascio,W.Y., Managing Human Resources, Irwin-McGraw Hill.
- Noe, Hollenbeck, Gerhart& Wright, Human Resource Management, McGraw-Hill Higher Education

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Session: 2025-26		
Part A – Introduction		
Name of Programme	M.A. Business Economics	
Semester	**Third**	
Name of the Course	Mathematical Economics	
Course Code	M24-BEC-305	
Course Type	DEC-3	
Level of the course	500-599	
Pre-requisite for the course (if any)	n.a.	
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand, explain, solve and design different forms of utility functions and demand functions and thereby attain in-depth knowledge of optimization and related concepts in consumer behaviour using mathematical derivations. CLO 2: Illustrate and design various forms of production functions and appreciate the concepts of optimization, duality, product exhaustion, productivity and efficiency using mathematical equations. CLO 3: Elucidate, estimate, and interpret the time path of any economic variable and comprehend the behaviour of the firm under perfect and imperfect competition by utilizing mathematical tools. CLO 4: Formulate mathematically the various macro-economic models concerned with national income, inflation–unemployment relationship, multiplier–accelerator interactions and economic growth.	

	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		

PartB-Contents of the Course

Instructions 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 questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Topics in Consumer Behavior** Types of utility functions; Ordinal utility maximization; Demand functions — ordinary and compensated; Slutsky equation — income, substitution, and price effects; Consumer surplus; Elasticity of demand; Linear expenditure systems; Indirect utility function. **SELF STUDY CONTENTS (not relevant for exams)** Meaning and determinants of utility and demand; Indifference curve and its slope; Concept of budget line; Basic rules of differential calculus and	15

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	maxima-minima, integral calculus, and matrix algebra.		
II	**Production Function Analysis** Production functions and their properties (CD, CES, Translog); Elasticity of factor substitution and curvature of iso-quants; Producer's equilibrium; Duality in cost and production functions; Product exhaustion theorems; Growth Accounting Equation; Methods for measuring productivity and efficiency. **SELF STUDY CONTENTS (not relevant for exams):** Microeconomic concepts from producer behavior including isoquant; Basic rules of differential calculus and maxima-minima.		15
III	**Market Equilibrium** Product and factor market equilibrium; Existence, uniqueness and stability of equilibrium; Static stability; Dynamic stability-lagged adjustment and continuous adjustment; Dynamic equilibrium with lagged adjustment; Monopoly, monopsony and monopolistic competition; Oligopoly models by Cournot and Stackelberg. **SELF STUDY CONTENTS (not relevant for exams):** Markets and its various forms; Rules of differential calculus and maxima-minima; Knowledge of difference and differential equations.		15
IV	**Macroeconomic Models** Multi-market equilibrium model; National Income model; Expected Inflation Augmented Phillips relation; Multiplier-Accelration interaction model; Growth models – Domar, Harrod, John Robinson's Golden Age Model, Duesenberry's Optimum Growth Model, Solow, Meade, Kaldor. **SELF STUDY CONTENTS (not relevant for exams):** Relationship between various economic agents; Concept and components of national income; Economic growth and its determinants.		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:

- Allen, R.G.D. (1972). Mathematical economics. Macmillan, London.
- Allen R.G.D. (2002). Mathematical analysis for economists. Macmillan Press and ELBS, London.
- Alhabeeb, M.J., & Joe Moffitt, L. (2014). Managerial economics: A mathematical approach. John Wiley & Sons.
- Arrow, K. J. & Intrilligator, M. (Eds.). (1987). Handbook of mathematical economics (Volumes I, II and III). North Holland, Amsterdam.
- Chiang, A.C. (1999). Elements of dynamic optimization. Waveland Press Inc., Long Grove, Illinois.
- Chiang, A.C. (2006). Fundamental methods of mathematical economics. McGraw Hill, New York.

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- Chung, J.W. (1994). Utility and production: Theory and applications. Basil Blackwell, London.
- Dernburg, T. F., &Dernburg, J. D. (1984). Macroeconomic analysis: An introduction to comparative statics and dynamics. Addison-Wesley Publishing Company, Philippines.
- Ghatak, A. (1994). Macroeconomics: A mathematical approach. Concept Publishing Company, New Delhi.
- Henderson, J. M. &Quandt, R.E. (2003). Microeconomic theory: A mathematical approach. McGraw Hill, New Delhi.
- Jha, R. (2008). Contemporary macroeconomics theory and policy. Willey Eastern Ltd., New Delhi.
- Jones, Hywel G. (1978). An introduction to the modern theory of economic growth. McGraw Hill-Kogakusha, Tokyo.
- Koutsoyiannis, A. (1979). Modern microeconomics. Macmillan Press, London.
- Lancaster, K. (2012). Mathematical economics. Dover Publications Inc., New York.
- Madnani, G.M.K. (2001). Mathematical economics: A mathematical approach to microeconomic theory. Oxford & IBH Publishers.
- Mehta, B. C. &Madnani, G. M. K. (2018). Mathematics for economists. Sultan Chand & Sons.
- Sen, A. (1999). Microeconomics: Theory and applications. Oxford University Press.
- Varian, H. (2006). Microeconomic analysis. W.W. Norton, New York.

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<tr><td colspan="4" align="center">Session: 2025-26</td></tr>
<tr><td colspan="4" align="center">PartA – Introduction</td></tr>
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Name of Programme	M.A.Business Economics		
Semester	**Third**		
Name of the Course	Economics of Portfolio Investment		
Course Code	M24-BEC-307		
CourseType	DEC-4		
Level of the course	500-599		
Pre-requisite for the course (if any)			
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand the risk and return relationship and compute yields of bond portfolio CLO 2: Understand and apply the portfolio construction, and asset pricing. CLO 3: Understand and apply the fundamental and technical analysis, and efficiency tests of stock markets. CLO 4: Understand and apply the portfolio performance evaluation through various methods. - CLO 5: Demonstrate the ability to apply the contents with the help of 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	3 hours	

<table>
<tr><td colspan="3" align="center">PartB – Contentsofthe Course</td></tr>
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Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Investment Analysis** The Investment Alternatives; Securities Market; Risk- Return Analysis; Risk Aversion and Capital Allocation to Risky Assets; Term Structure of interest Rates, Bond Prices and Yields; Managing Bond Portfolio. **SELF STUDY CONTENTS (not relevant for exams):** Time Value of Money	11
II	**Portfolio Optimization** Equity valuation Models; Portfolio Analysis; Markowitz Model, Sharpe Index Model, Capital asset pricing Model, Arbitrage Pricing Theory.	11
III	**Security Analysis and Theory of Options** Macroeconomic, Industry and Company Analysis; Technical Security	12

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	Analysis; Efficient market Theory; Introduction to Options and Futures Market.		
IV	Portfolio performance Evaluation; Economics of Mutual Funds - Sharpe, Treynor and Jensen Performance Index; Active Portfolio Management-Treynor-Black Model; Black-Litterman Model.		11
V	**Practicals:** 1. Students will prepare a Practical file containing 2 Practicals from each unit. 2. Practicals may be done using the software chosen by the teacher. 3. The external examiner shall take the written exam followed by viva voce. 4. Syllabus contains all the contents mentioned in the four units.		30
	Total Contact Hours		75

Suggested Evaluation Methods

Internal Assessment: 30		End Term Examination: 70	
Theory	20	**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, Viva-Voce, write-up and execution of the Practical	
Seminar/Demonstration/Viva-voce/Lab records etc.:	5		
Mid-Term Exam:	-		

Part C-Learning Resources

Recommended Books/e-resources/LMS:

- Reilly, Frank K. and Brown, Keith C. (RB) (2002), Investment Analysis and Portfolio Management, 7th Ed. Dryden.
- Bodie, Z., Kane, A. & Marcus, A.J. (2017). *Investments*. McGraw Hill Education.
- Das, Satyajit (2003), Swaps/Financial Derivatives, 3rd Ed., Vol. 1-4, Wiley Finance.
- Frank, Fabozzi (2011), Markowitz, Harry, Equity Valuation and Portfolio Management, Wiley.
- Frank, Fabozzi, (Ed.) (1989), Portfolio Investment Management, Probus Publishing.
- Grinold, R.C. & Kahn, R.N. (1999). *Active portfolio Management*. McGraw Hill.
- Haugen, Robert (1987), Modern Investment Theory, Prentice-Hall of India.

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	Session: 2025-26		
	PartA – Introduction		
Name of Programme	M.A. Business Economics		
Semester	**Third**		
Name of the Course	Industrial Organisation		
Course Code	M24-BEC-308		
CourseType	DEC-4		
Level of the course	500-599		
Pre-requisite for the course (if any)	n.a.		
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1:Learn the scope and breadth of industrial economics. Comprehend, compare and present the theories of industrializationand location along with their technical applications. CLO 2:Understand market structure-conduct-performance and appreciate the concept of sellers' concentration along with its measurement using adequate techniques. CLO 3:Understand and then able to present the concepts of industrial productivity and efficiency along with measurement using analytical tools. Understand various aspects of Indian Industrial policy. CLO 4:Understand, compare and analyze various product pricing methods along with their merits and limitations. Understand and present in detail the technical aspects of firms' advertising decisions making based on different models.		
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		
	PartB – Contentsofthe Course		

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Industrial Organization and Theories of the Firm** Industrial organization and ownership structure – public, private, joint and co-operative sectors; Objectives of the firm; Theories of the firm: Coasian firm and transaction cost approach. **Project Evaluation and Theories of Mergers** Methods of project evaluation; Risk & uncertainties in project appraisal; NPV v/s IRR; Mergers and Acquisitions (M & A's) and diversification; Corporate Governance Mechanisms	15
II	**The Structure-Conduct-Performance Paradigm** The structural conduct performance approach; Relationships between	15

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	structure, conduct & performance; Sellers concentration and its measurement: the concentration ratio, the Lorenz curve; Product differentiations – its sources and its implications, Economies of Scale; Market structure and profitability; Market structure and innovation – Process and measurement.	
III	**Industrial Productivity and Efficiency** Industrial Productivity – measurement and determinants; Industrial efficiency– concept and measurement; Efficiency conditions in the theory of production: constrained output maximisation, constrained cost minimisation, profit and revenue maximization; Efficiency and decision-making process. **Industrial Policy** Industrial Policy in India; National manufacturing Policy; MNCs, transfer of technology and issues related with TRIMS; Competition policy; Industrial sickness; Exit policy; Role of BIFR.	15
IV	**Methods of Product Pricing** Cost-oriented methods: Mark-up, cost-plus, Break-even, target return pricing; Market-oriented Methods: Going-rate pricing, Premium pricing, Discount pricing, Sealed-bid Pricing; Peak-Load Pricing; Multi-Product Pricing; Predatory pricing; Pricing of a new product: Skimming and Penetration pricings; Non-Linear Pricing Practices: Price Discrimination. **Advertising Decisions of Firm** The Advertising Decision: Marginalistic& Profit-Maximising Models of The Advertising Decision; Schmalensee's Model of Oligopoly Advertising; Effects of Advertising.	15
	Total Contact hours	60

Part C-Learning Resources

Recommended Books/e-resources/LMS:
- Bains, J. S. (1996),*Industrial Organization*, Cheltenham, U. K.
- Barthwal, R. R. (1985),*Industrial Economics*, Wiley Eastern Ltd., New Delhi.
- Hay, D. & Morris, D. J. (1979),*Industrial Economics: Theory and Evidence*, Oxford University
- Koutsoyiannis, A. (1982),*Non-Price Decisions: The Firm in a Modern Context,*The Macmillan Press Ltd., London.
- Smith, D. M. (1971), *Industrial Location: An Economic and Geographic Analysis,*John Wiley,
- Symeonidis, George (1999), *Industrial Economics*, University of London Study Guide (SG).
- Divine, P. J., Lee, N., Jones, R. M. & Tyson, W.J. (2018),*An Introduction to Industrial Economics,*Routledge.
- Kamien, M. T. &Schwartz, N. L. (1982),*Market Structure and Innovation*, Cambridge University Press, Cambridge.
- Lipczynski, J., Wilson, J.O.S. & Goddard, J.A. (2016),*Industrial Organisation: Competition, Strategy and Policy*, Pearson

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Session: 2025-2026	
PartA – Introduction	
Name of Programme	M.A. Business Economics
Semester	**Third**
Name of the Course	Economics of Money and Banking
Course Code	M24-BEC-309
CourseType	DEC-4
Level of the course	500-599
Pre-requisite for the course (if any)	n.a.
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand the meaning, types, supply, sources and history of money to comprehend the relevance and analyze the significance of money keeping in mind the ethical and research issues as well as to understand various theories of Value of Money critically. CLO 2: Grasp various issues related to commercial banking simultaneously able to do critical appraisal of the progress of this sector and its contribution to growth. CLO 3: Know about the policy, objectives and functioning of central bank RBI. Further able to analyze the normative and positive effects of the policy and interpret implications using the relevant tools. CLO 4: Comprehend the structure and segments of financial markets. To understand the current relevance of development banks. To synthesize this knowledge to understand the banking and financial sector.

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

Instructions 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 questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Conceptualization of Money** Money: Meaning, Classification and Functions, Neutrality of money; Theories of Value of Money: Fisher, Cambridge equations, the Cash Balances Approach; Keynesian Theory of Money and Prices; The Real Balance Effect; Wicksell's contribution; Brief history of Indian Rupee, Money and liquidity aggregates in India	15
II	**Commercial Banking** Meaning and functions of commercial banks, the process of credit creation, Purpose and limitations, Liabilities and Assets of banks, Commercial bank and economic development, Co-operative banks, **The Indian Commercial Banking**	15

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	Functions and growth of financial institutions in India; Recent reforms in banking sector in India; A critical appraisal of the progress of commercial banking after nationalization. Non-bank financial intermediaries (NBFI's); The currency and credit schools; Role of Non-Banking financial institutions in India.	
III	**Topics in Monetary Policy** Principles of Monetary Policy: Its meaning, objectives, frame work, targets and indicators of monetary policy; Transmission mechanism of monetary Policy; Restrictive Vs. accommodating monetary policy; Need and effectiveness of monetary policy; Lags in monetary policy; Role of monetary policy in developing countries. **Credit Control and RBI** Functions, objectives and methods of credit control: quantitative and qualitative methods, Role and functions of Reserve Bank of India, Objectives and limitations of monetary policy of RBI; Recent Policy measures.	15
IV	**Indian Money Market** Structure of financial market in India; Structure and functions of Indian money market including Money markets instrumentscall money, treasury bills and commercial bills; weaknesses of money market in India; Development banking in India: IFCI, IDBI, and ICICI.	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:
- Handa, J. (2009), *Monetary Economics*,Routledge, London.
- Mishkin, F.S. (2016),*The Economics of Money, Banking and Financial Markets*, Pearson Education.
- Mitra, S. (2000),*Money and Banking*, Random House, New York.
- Goldfield, S.M. &Chandlar, L. V. (1981),*The Economics of Money & Banking*, Harper & Row.
- Basu, C.R. (1991),*Commercial Banking in the Planned Economy of India*, Mittal Publications, New Delhi.
- Gupta, S.B. (1996),*Monetary planning for India*. S. Chand & Company, New Delhi.
- Hajela, T.N. (2009),*Money and Banking: Theory with Indian Banking*,Ane Books Pvt. Ltd.
- Pathak, B.V. (2018),*Indian Financial System: Markets, Institutions and Services*, Pearson India Education Services Pvt. Ltd.
- Sayers, R.S. (1964),*Modern Banking*, Clarendon Press.
- Sharma, K.C. (2007),*Modern Banking in India*, Deep & Deep Publications, Pvt. Ltd., New Delhi
- Hossain, A.A. (2015),*The Evolution of Central Banking and Monetary Policy in the Asia-Pacific*,Edward Elgar Publishing Limited, UK.
- Jadhav, N. (2006), Monetary Policy, Financial Stability, and Central Banking in India, Macmillan India Ltd.
- Ramachandran, P.P. (2016),*RBI: An Anecdotal History*, Academic Foundation.

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- Sharma, M. (Ed.). (2005),*Studies in Money, Finance and Banking*, Atlantic Publishers.
- Shah, A., Thomas, S. & Gorham, M. (2008),*India's Financial Markets: An Insider's Guide to How the Markets Work*,Elsevier.
- Machiraju, H.R. (2003),*International Financial Markets and India*, New Age International Publishers.

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PartA–Introduction	
Name of Programme	M.A.Business Economics
Semester	**Third**
Name of the Course	Business and Economic Modelling I
Course Code	M24-BEC-311
CourseType	DEC-5
Level of the course	500-599
Pre-requisite for the course (if any)	n.a.
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand, apply and solve cluster, discriminant and factor analysis besides computing the basics of time series data using software. CLO 2: Understand and compute various tools used in time series econometrics using software. CLO 3: Understand and compute yields, stock values from historical data using a software. CLO 4: Understand and apply various capital budgeting criteria and decision making using a software. - CLO 5: Demonstrate the ability to solve the problems mentioned in contents with the help of 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	3 hours	

| Part B-Contents o fthe Course | | | |

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	1. Cluster analysis 2. Factor analysis 3. Discriminant analysis 4. Time series analysis- the property of stationarity, stochastic and deterministic trend, unit root tests **SELF STUDY CONTENTS (not relevant for exams):** Excel functions, SPSS, E-VIEWS, STATA	11
II	5. Cointegration Analysis 6. Vector Error Correction Model (VECM) 7. Auto Regressive Distributed Lag (ARDL) Model 8. Vector Autoregression (VAR) Model	12

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	SELF STUDY CONTENTS (not relevant for exams): Excel functions, SPSS, E-VIEWS, STATA	
III	9. Interest Rates: Real, Nominal, Inflation and the Fisher Effect 10. Calculate YTM and Effective Annual Yield From Bond Cash Flows; Bonds & Interest Rate Risk,Tax Implications For Zero Coupon Bonds 11. Stock Value Based on Present Value of Future Dividend Cash Flows. 12. Stock Valuation with Dividend Growth Model **SELF STUDY CONTENTS (not relevant for exams):** Excel functions, SPSS, E-VIEWS, STATA	11
IV	13. Investment criteria 14. IRR and Non-conventional Cash Flows, Plot Chart To See Multiple IRR; Investment Criteria: MIRR - Modified Internal Rate of Return 15. Scenario Analysis For Cash Flow & NPV Calculations 16. Sensitivity Analysis For Cash Flow & NPV Calculations **SELF STUDY CONTENTS (not relevant for exams):** Excel functions, SPSS, E-VIEWS, STATA	11
V	**Practicals:** 1. Students will prepare a Practical file containing 2 Practicals from each unit. 2. Practicals may be done using the software chosen by the teacher. 3. The external examiner shall take the written exam followed by viva voce. 4. Syllabus contains all the contents mentioned in the four units.	30
		75

Total Contact Hours

Suggested Evaluation Methods

Internal Assessment: 30		End Term Examination: 70	
Theory	20	**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, Viva-Voce, write-up and execution of the Practical	
Seminar/Demonstration/Viva-voce/Lab records etc.:	5		
Mid-Term Exam:	-		

Part C-Learning Resources

Recommended Books/e-resources/LMS:
- Gary Koop: Analysis of economic data, John Wiley & Sons, 2005
- Thomas Cleff: Applied Statistics and Multivariate Data Analysis for Business and Economics: A Modern Approach Using SPSS, Stata, and Excel, Springer
- Kurt Jechlitschka, Dieter Kirschke and Gerald Schwarz: Microeconomics using Excel: Integrating economic theory, policy analysis and spreadsheet modeling, Routlage
- ShmuelOluwa: Hands-On Financial Modeling with Excel for Microsoft 365, Packt Publishing

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- AbdulkaderAljandali and MotasamTatahi: Economic and Financial Modelling with EViews-A Guide for Students and Professionals
- Joaquim P. Marques de Sá: Applied statistics using SPSS, STATISTICA, MATLAB and R, Springer
- Robert P. Burns, Richard Burns : Business Research Methods and Statistics Using SPSS, Sage

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Session: 2025-26	
Part A – Introduction	
Name of Programme	M.A. Business Economics
Semester	**Third**
Name of the Course	Introductory Econometrics
Course Code	M24-BEC-312
Course Type	DEC-5
Level of the course	500-599
Pre-requisite for the course (if any)	n.a.
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand the definition, scope, and importance of econometrics, differentiate types of data and probability distributions, and apply Simple Linear Regression using Ordinary Least Squares (OLS) estimation methods. CLO 2:Evaluate estimator properties, apply the Gauss-Markov Theorem, conduct significance tests with t and F tests, assess model goodness-of-fit, and understand various functional forms of regression models. CLO 3:Grasp the concept of multiple linear regressions, perform estimation and interpretation of results, and identify and address issues like multicollinearity, heteroscedasticity, and autocorrelation in OLS assumptions. CLO 4:Create and use dummy variables, avoid the Dummy Variable Trap, They'll also be familiar with LPM, Logit, Probit Models, and Fixed Effects model estimation using the LSDV method. - CLO 5: Demonstrate the ability to apply the contents with the help of a software.

	Theory	Practical	Total
Credits	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	3 Hours	

PartB-Contents of the Course

Instructions 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 questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Introduction to Econometrics:** Definition scope, Methodology and importance of econometrics, Types of Data; Time Series data, Cross Section Data and Panel Data. Probability	12

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	distributions; normal and t distribution, Hypothesis testing and confidence intervals. Simple Linear Regression: Simple Linear Regression; Definition and assumptions, Estimation methods; Ordinary Least Squares (OLS),	
II	**Estimation, Significance Testing, and Model Evaluation in Simple Regression :** Desirable properties of an estimator, Gauss Markov Theorem, Test for the significance of parameter estimates (t test and F test), Goodness-of-fit and model evaluation, Functional forms of Regression Models	11
III	**Multiple Linear Regression and Violation of Assumptions:** Multiple Linear Regression Model; Definition and basic concept of multiple regression, Estimation and Interpretation; Causes and consequences of violation of OLS assumptions: Multicollinearity, Heteroscedasticity, and Autocorrelation.	11
IV	**Dummy Variables and Fixed Effects Models:** Definition and construction of dummy variables Use of dummy variables to represent categorical variables, reference category and its interpretation, Applications of dummy variables in Economics, Dummy Variable Trap, Uses of Dummy variable for testing structural change, seasonal analysis and interaction effect. LPM, Logit and Probit Models. Fixed effects model estimation by LSDV method.	11
V*	**Practicals** 1. Estimation of OLS Model 2. Testing the significance of Parameters of equation 3. Detection & removal of Multicollinearity-1 4. Detection & removal of Multicollinearity-2 5. Detection & removal of Heteroscedasticity-1 6. Detection & removal of Heteroscedasticity-2. 7. Detection & removal of Autocorrelation-1. 8. Detection & removal of Autocorrelation-2. 9. Use of Dummy variables-1 10. Use of Dummy variables-2 11. Use of Dummy variables-3 12. Use of Dummy variables-4 13. Fixed & Random Effects Model Estimation	30
Total Contact Hours		75

Suggested Evaluation Methods				
Internal Assessment: 30			**End Term Examination: 70**	
Theory		20	**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, Viva-Voce, write-up and execution of the Practical	
Seminar/presentation/assignment/quiz/class test etc.:		5		

Part C-Learning Resources

Recommended Books/E-Resources/LMS:

- Amemiya, T. (1985).Advanced Econometrics. HarvardUniversity Press, Cambridge, Mass.
- Baltagi, B.H. (1988).Econometrics. Springer, New York.
- Goldberger, A.S. (1998).Introductory Econometrics. OxfordUniversity Press, New York.

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- Gujarati, D.N. (1995).Basic Econometrics. McGraw Hill, New Delhi.
- Intrilligator, M.D. (1978).Econometric Methods, Techniques and Applications. Prentice Hall Englewood Cliffs, New Jersey.
- Johnston J. (1991). Econometric Methods. McGraw Hall Book Co. London.
- Kmenta J. (1998). Elements of Econometrics. University of Michigan Press, New York.
- Koutsoyiannis, A. (1977).Theory of Econometrics. The Macmillan Press Ltd. London.
- Maddala G.S. (Ed.) (1993).Econometric Methods and application. Aldershot U.K.
- Madnani, G.M.K. (2004). Introduction to Econometrics: Principles and Applications. Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi.
- Pindyck R.S. &Rubinfield, D.L. (1976). Econometric Models and Economic Forecasts. McGraw Hill Kogakusha Tokyo.
- Theil H. (1981).Introduction to Econometrics. Prentice Hall of India, New Delhi.

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PartA – Introduction

Name of Programme	M.A.Business Economics
Semester	**Third**
Name of the Course	Analysis of Business and Economic Policy
Course Code	M24-BEC-313
CourseType	DEC-5
Level of the course	500-599
Pre-requisite for the course (if any)	n.a.
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: To understand the basics and theoretical constructs of policy analysis. CLO 2: To learn to analyse Agriculture and Industrial Sector Policies in India CLO 3: To learn to analyse social Sector Policies in India CLO 4: To learn to analyse macroeconomic and financial Sector Policies in India

Credits	Theory	Practical	Total
	4	0	4
Teaching Hours per week	4	0	5
Internal Assessment Marks	30	0	30
End Term Exam Marks	70	0	70
Max. Marks	100	0	100
Examination Time	3 hours		

PartB – Contents of the Course

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Introduction to Policy Analysis** Policy Analysis: Meaning and Definition; Public Policy - Basic Concepts and Theoretical Background for Policy Analysis; Ethical and Political Dimensions of Policy Analysis; Steps in Policy Analysis; Methods in Policy Analysis	15
II	**Agriculture and Industrial Sector Policies in India** Agricultural Policy: National Policies on Agriculture, Agriculture Policy Vision 2020,Subsidies, Minimum Support Prices, Public Distribution System, Impact of Agricultural Policy on Agricultural Sector. Industrial Policy: Industrial Policy in India since Independence, Industrial Licensing Policy, New Economic Policy, Impact of Policy Changes on Industrial Production, Structural Changes, Corporate Social Responsibility (CSR)	15
III	**Social Sector Policies in India** Population Policies - Demographic Dividend, Population Policy 2000; Poverty and Unemployment Policies – MGNREGA, Unorganised Sector	15

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	Labour Policies; Health Policies; Education Policies & Right to Education (RTE); Right to Employment; Right to Information; MDGs and SDGs	
IV	**Macroeconomic and Financial Policies Issues in India** Social and Political Landscape in India; New Economic Policy 1995; Structural Adjustments - Liberalization, Privatization (EXIT Policy) and Globalization; Impact of WTO: TRIPs, TRIMs, & GATS. Financial Sector: Banking Sector Policies, Mergers & Amalgamation, NBFIs, Insurance Sector, Financial Sector Reforms, Inflation Targeting Policy, Monetary Policy.	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		
➢ **Practical**			
● Class Participation:			
● Seminar/Demonstration/Viva-voce/Lab records etc.:			
● Mid-Term Exam:			

Part C-Learning Resources

Recommended Books/e-resources/LMS:

- Acharya Shankar, (2003) India's Economy: Some Issues and Answers, Academic Foundation, New Delhi.
- Anthony E. Boardman, David H. Greenberg, Aidan R. Vining, and David L. Weimer, (2001) Cost- Benefit Analysis: Concepts and Practice, Englewood Cliffs, New Jersey, Prentice-Hall.
- Bardach, Eugene,(2011) A Practical Guide for Policy Analysis: The Eightfold Path to More Effective Problem Solving, Washington D.C.
- David L. Weimer and Aidan R. Vining, (2010) Policy Analysis: Concepts and Practice, Englewood Cliffs, New Jersey: Prentice-Hall.
- Dhar P. N, (2003) The Evolution of Economic Policy in India-Selected Essays, OUP, New Delhi
- Dhar P.K., (2016) Indian Economy: Its Growing Dimensions, Kalyani Publications, Ludhiana.
- Dunn, William N, (2011) Public Policy Analysis: An Introduction, Prentice Hall.
- DuttRuddar, and K.P.M. (2004) Sundaram, Indian Economy, S. Chand and Company, New Delhi.
- Dye, T. (2013) Understanding Public Policy, Englewood Cliffs, NJ, Prentice Hall.
- Hanson James A., and Sanjay Kathuria (Ed) (2001) India-A Financial Sector for the Twenty-First Century, World Bank, Oxford University Press, New York.
- HanumanthaRao C. H. (2006) Agriculture, Food Security, Poverty Environment - Essays on Post Reform India, OUP
- Kapila Uma, (2015) Indian Economy since Independence, Academic Foundation, New Delhi.
- Kapila Uma, (2005) Understanding the Problem of Indian Economy, Academic Foundation, New Delhi.
- Misra S.K. & V.K. Puri, (2011) Indian Economy-Its Development Experience, Himalaya Pub.,House, Mumbai.
- NCAER, Economic and Policy Reforms in India, NCAER, New Delhi.
- Patton &Sawicki, Monitoring & Evaluating Implemented Policies, Prentice Hall

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- Patton, Carl V. and David S. Sawicki,(2015) Basic Methods of Policy Analysis and Planning, Englewood Cliffs, New Jersey, Prentice Hall.
- Vaidyanathan A, (2003) India's Economic Reforms and Development, Academic Foundation, New Delhi.

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Session: 2025-26			
PartA– Introduction			
Name of Programme	M.A.Business Economics		
Semester	**Third**		
Name of the Course	Introductory Economics		
Course Code	M24-OEC-310		
Course Type	OEC		
Level of the course	500-599		
Pre-requisite for the course (if any)	n.a.		
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1:Explain the meaning and nature of economics along with the important concepts of its Microeconomics branch. CLO 2: Analyze and apply some basic concepts from closed and open Macroeconomics. CLO 3: Elucidate the concepts of taxation, fiscal policy, budget deficits, and construction of various indices as the measures of economic development and thus enter into the field of policy making. CLO 4: Make positive as well as normative analysis of Indian economic policy.		
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			

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Micro Economics** Meaning, Nature, and Branches of Economics; Central Economic Problems; Concepts of Demand and Supply; Factors of Production; Concepts of Cost and Revenue; Market Forms and their Features.	7.5
II	**Macro Economics** Basic Concepts in National Income; Concepts of Saving and Investment; Money and its Functions; Current Account and Capital Account; Balance of Payment and Balance of Trade; Concept of Exchange Rate.	7.5
III	**Public Finance and Development Economics** Direct Taxes and Indirect Taxes: Types, Merits and Demerits; Fiscal Policy and its Instruments; Budget and Fiscal Deficits; Concept of Economic Growth and Economic Development; Human Development Index; Gender Development Index.	7.5

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IV	**Indian Economy Policy**	7.5
	Basic Features of Indian Economy in Present Times; Poverty Alleviation Programmes; Causes of Inflation; RBI and its Monetary Policy; Role of Agricultural, Industrial, and Service Sectors; Liberalization, Privatization and Globalization (Concepts only).	

Total Contact Hours	30

<table>
<tr><td colspan="4" align="center">Suggested Evaluation Methods</td></tr>
<tr><td colspan="2" align="center">Internal Assessment: 15</td><td colspan="2" align="center">End Term Examination: 35</td></tr>
<tr><td>Theory</td><td>15</td><td>Theory:</td><td>35</td></tr>
<tr><td>Class Participation:</td><td>4</td><td colspan="2" align="center">Written Examination</td></tr>
<tr><td>Seminar/presentation/assignment/quiz/class test etc.:</td><td>4</td><td colspan="2"></td></tr>
<tr><td>Mid-Term Exam:</td><td>7</td><td colspan="2"></td></tr>
</table>

Part C-Learning Resources

Recommended Books/e-resources/LMS:

- Anderton, A. (2008). *Economics*. Dorling Kindersley (India) Pvt. Ltd., New Delhi.
- Datt, G., &Mahajan, A. (2020). *Datt&Sundharam's Indian economy*. S.Chand Publishing.
- Dhar, P.K. (2020). *Indian economy: Its growing dimensions*. Kalyani Publishers, New Delhi.
- Dwivedi, D.N. (2010). *Macroeconomics: Theory and policy*. Tata McGraw Hill, New Delhi.
- Gupta, J.R. (2005). *Public economics in India – Theory and practice*. Atlantic Publishers.
- Kapila, U. (2015). *Indian economy - Performance and policies*. Academic Foundation.
- Kapila, U. (2018). *Indian economy since independence*. Academic Foundation.
- Mankiw, G. N. (2018). *Principles of economics*. South-Western Cengage Learning, USA.
- Ministry of Finance (2024). *Economic Survey*. Government of India.
- Mishra, S.K., &Puri, V.K. (2024). *Indian Economy*. Himalaya Publications, New Delhi.
- Paul, R. R. (2010). *Monetary Economics*. Kalyani Publishers, New Delhi.
- Samuelson, P.A., &Nordhaus, W.D. (2010). *Economics*. Tata McGraw-Hill.
- Sowell, T. (2011). *Basic economics: A common sense guide to the economy*. Basic Books, New York.

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Session: 2025-26			
Part A – Introduction			
Name of Programme	M.A. Business Economics		
Semester	**Fourth**		
Name of the Course	Contemporary Indian Economy		
Course Code	M24-BEC-401		
CourseType	CC-11		
Level of the course	500-599		
Pre-requisite for the course (if any)	n.a.		
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand the performance of the Indian economy since independence. CLO 2: To comprehend the performance and policies for different sectors of the Indian economy. CLO 3: Explore the composition of Indian financial system, including the central bank, commercial banks, money and capital markets, fiscal policy, and public debt. CLO 4: Grasp India's international economic engagements through trade, investment, and foreign exchange management.		
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			

Instructions 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 questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Characteristics of the Indian Economy** Characteristics of Indian Economy on the eve of independence, Development Strategies in India: Planning in India: Objectives Strategies and Evaluation, Trend and Structure of National Income since 1951, New Economic Policy 1991, Performance of Indian Economy in post reform era, Behaviour of saving and investment in recent years, Infrastructure bottlenecks in Indian economy, Impact of institutional factors on development of Indian Economy.	15
II	**Structure of the Indian Economy** Agriculture: Growth, Productivity Trends and Crop Patterns, Green Revolution, Recent Issues in Indian Agriculture Trends in its diversification, Rural Credit & Marketing, Industrial Development during post-independence Period, Small Scale and cottage industries, Industrial Policy, Public sector in India, Disinvestment Programme in India, Labour relation and Social security, Growth and Contribution of Services sector in	15

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	India, Service led Growth.		
III	**Money, Banking and Finance** Price trends and Inflation, Indian Financial System: Reserve Bank of India, Commercial banking in India, Money Market , Capital Market in India, Institutional Financing, Center State finance relations; recent finance commission, Tax revenue of central and state government; evaluation of Indian tax structure; goods and service tax in India, Public Expenditure in India ;trends and issue, Public Debt in India.		15
IV	**Foreign Trade And Foreign Capital** India's Foreign Trade; Value, Composition and Direction, India's Balance of Payments, Exim policy, Foreign Capital and Aid, India's Exchange Rate Policy, Management of Foreign Exchange Reserve, Multinational corporation, FERA and FEMA, World Trade Organization and India.		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:

- Banerjee, A. & Singh, S.K. (2001). Banking and Financial Sector Reforms in India, Deep & Deep Publications, New Delhi.
- Bhagwati, Jagdish (2004).In Defense of Globalization. Oxford University Press, New Delhi.
- Bhandari, Surendra (1998). WTO and Developing Countries, Deep & Deep Publications, New Delhi.
- Biswas, P.K. & Das, P. (Eds.). (2019). Indian Economy: Reforms and Development, Springer.
- Datt, G. &Mahajan, A. (2020). Datt&Sundharam's Indian Economy, S. Chand Publishing House.
- Desai, Vasant (2005).Indian Financial System and Financial Market Operations, Himalaya Publishing House, New Delhi.
- Dhar, P.K. (2020).Indian Economy: Its Growing Dimensions. Kalyani Publishers, New Delhi
- Dwivedi, Rishi Muni (2011).Energy Sources and Policies in India. New Century Publication, New Delhi.
- HanumanthaRao, C.H., Bhattacharya, B.B. and Siddharthan, N.(Eds.). (2005). Indian Economy and Society in Era of Globalization and Liberalization, Academic Foundation, New Delhi.
- Kapila, Uma (2014-2015). Indian Economy since independence, Academic Foundation, New Delhi.
- Mahajan, Madhur M. (2019).Indian economy. Pearson Education, New Delhi.
- Mathur, Vibha (2005).WTO and India (Development Agenda for the 21st century), New Century Publications, New Delhi.
- Meier, Gerald M. (1987). Pioneers in Development. Oxford University Press, New Delhi.
- Ministry of Finance (2024). Economic Survey. Government of India.

Mishra, S. K. &Puri, V.K. (2020). Indian Economy. Himalaya Publishing House, New Delhi

- Rameshan P. (2008).WTO, India and Emerging area of Trade: Challenges and Strategies, Excel Books, New Delhi.

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- Shergill, H.S. (2006). Diversification of cropping pattern: A Re-Examination, Institute for Development and Communication, Chandigarh.
- Sinha, Yashwant&Srivastava, Vinay K. (2017). The Future of Indian Economy: Past Reforms and Challenges ahead, Rupa Publications, New Delhi.

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Session: 2025-26	
PartA–Introduction	
Name of Programme	M.A. Business Economics
Semester	**Fourth**
Name of the Course	Environmental and Resource Economics
Course Code	M24-BEC-402
CourseType	CC-12
Level of the course	500-599
Pre-requisite for the course (if any)	n.a.
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand the dynamics of economy-environment interaction. CLO 2: Analyse the Interplay between environment and development. CLO3: Comprehend the economics of exhaustible resources. CLO 4: Understand the Economics of renewable resources.

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		

PartB – Contentsofthe Course

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Introduction** Economy-environment interaction; Material balance principle; entropy law; market failure; property rights; open, closed and common access resources; resource economics – environmental economics – ecological economics: characteristics and synergy.	15
II	**Environment *vs.* Development** Relation between development and environmental stress; Environmental Kuznet's curve hypothesis – theory and empirical evidence; concept of sustainable development; indicators of sustainability; various approaches to environmental accounting, market failure.	15
III	**Economics of Exhaustible Resources** Hotelling's rule; Solow-Hartwick's Rule; competitive market structures and optimal extraction policy; monopoly, oligopoly, cartel and other market structures – optimal extraction policy; uncertainty and the rate of resource extraction; exploration and extraction; resource scarcity – indicators, evidence and critique.	15
IV	**Economics of Renewable Resources** Characteristics of renewable resources – growth functions and growth rate; economic models of fisheries, economics of optimal harvest cycles of forests;	15

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extinction of species, economics of Biodiversity.		
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:

- Kolstad, C., Intermediate Environmental Economics,2012 (2nd Edition), Oxford University Press.
- Kolstad, C, Environmental Economics, 2000, Oxford University Press.
- Hanley, N., J.F. Shogren, and B. White, Environmental Economics: In Theory and Practice, 2006, Oxford University Press.
- Prato, T., Natural Resource and Environmental Economics, 1999, Wiley-Blackwell.
- Perman, R., Ma. Y., Common, M., Maddison, D., Mcgilvray, J., Natural Resource and Environmental Economics, 2011 (4th Edition), Pearson Education Limited.
- Gopalakrishnan, C., Classic Papers in Natural Resource Economics, 2000, Palgrave Macmillan.
- Conrad, J.M. and C. Clark, Natural Resource Economics – Notes and Problems, 1987, Cambridge University Press.
- Dasgupta, P.S. and G.M. Heal,Economic Theory and Exhaustible Resources, 1979,University Press (Selected chapters).

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Session: 2025-26			
PartA – Introduction			
Name of Programme	M.A.Business Economics		
Semester	**Fourth**		
Name of the Course	Options and Futures		
Course Code	M24-BEC-403		
CourseType	DEC-6		
Level of the course	500-599		
Pre-requisite for the course (if any)			
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand the meaning and types of financial derivatives along with pricing of forward and futures. CLO 2: Understand how the hedging is done using futures? CLO 3: Understand options mechanism along with their pricing. CLO 4: Understand Greeks and various options trading strategies. - CLO 5: Demonstrate the ability to solve the problems mentioned in contents with the help of 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	3 hours	
PartB – Contentsofthe Course			

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Forwards and Futures** Meaning , Types, Profit & Pay-offs from Financial derivatives; Mechanics of Futures Market: Transactions on a Futures Exchange; Specifications of a Futures Contracts; Operation of Margins; Convergence of Futures price to Spot Price; Determination of Forward/Futures prices: Investment vs. Consumption assets; Short selling; Determination of Forward prices - Cash-and Carry & Reverse Cash & Carry Arbitrage; Value of Forward Contracts	11
II	**Hedging using Futures** Hedging Strategies using Futures: Uses of Futures contracts; Hedging – Long and Short Hedge, Choice of Futures contract, No. of Futures contracts – Hedge Ratio; Hedge effectiveness; Basis Risk; Cross hedging; Hedging with Index Futures; Changing the portfolio beta using Futures; Rolling the hedge forward.	11

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III	**Options** Mechanics of Options: Specifications of Options Contracts; Moneyness of Options; Types of options; Trading & Settlement; Factors affecting Option prices; Put-Call parity & its uses; Valuing Options: Binomial Option Pricing Model, one-step, two step binomial trees for Call & Put options; Black-Scholes-Merton Option Pricing Model (BSMOPM)	12
IV	**Greeks and Strategies** The Greeks: Delta, Gamma, Theta, Vega, and Rho - Meaning, Properties and Uses. 9. Trading Strategies using Options: Strategies involving option & stock – Covered Call & Protective put; Spreads – Bullish, Bearish, Butterfly; Combinations – Straddles, Strangles, Strips & Straps; Other Strategies – Collars, Box Spread, Ratio Spread, Condors; Synthetic Stocks.	11
V	**Practicals:** 1. Students will prepare a Practical file containing 2 Practicals from each unit. 2. Practicals may be done using the software chosen by the teacher. 3. The external examiner shall take the written exam followed by viva voce. 4. Syllabus contains all the contents mentioned in the four units.	30

Total Contact Hours	75

Suggested Evaluation Methods

Internal Assessment: 30		End Term Examination: 70	
Theory	20	**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, Viva-Voce, write-up and execution of the Practical	
Seminar/Demonstration/Viva-voce/Lab records etc.:	5		
Mid-Term Exam:	-		

Part C-Learning Resources

Recommended Books/e-resources/LMS:
- Hull, J. (2006). *Options, Futures and Other Derivative Securities*. Prentice Hall.
- Kolb, Robert W. (1996). *Financial Derivatives*. Blackwell Publishing.
- Kolb, Robert W. &Overdahl, James (2006). *Understanding Futures Markets*. Blackwell Publishing.
- McDonald, R. (2002). *Derivatives Markets*. Addison-Wesley Publishing, Boston.
- Reilly, F.K. & Brown, K.C. (2012). *Investment Analysis and portfolio management*. South-Western Cengage Learning.

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Session: 2025-2026	
PartA– Introduction	
Name of Programme	M.A. Business Economics
Semester	**Fourth**
Name of the Course	Global Business Environment
Course Code	M24-BEC-404
CourseType	DEC-6
Level of the course	500-599
Pre-requisite for the course (if any)	n.a.
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand basic issues and environment related with globalization CLO 2: Understand the Evaluate the effects of economic integration, trade agreements, and global trade organizations on international trade practices and policies. CLO 3: Understand and analyse the working of International Financial Management and Institutions CLO 4: Understand about MNCs and some issues related with marketing and HR

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		

PartB – Contentsofthe Course

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	Nature, importance, Evolution, scope advantages and limitations, challenges of Globalisation and factors causing globalization; Adapting to changing needs; Country attractiveness. Forces – Political Environment; Legal Environment; Technology; Cultural – Environment; Country Classifications.	15
II	**Global Trade Policy:** Economic integration theory of customs union; partial and general equilibrium analysis; Dynamic effects; Integration Experiences-European Union, BRICS, NAFTA, ASEAN, Multilateral trade negotiations-the GATT rounds, UNCTAD and evolution of world trading arrangements; World Trade Organization and fair trade-Development Round; Trade Facilitation; Trade War.	15
III	**Financial Management and Institutions** International Capital Movements: FDI and Portfolio Investment; Trends in	15

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		Global FDI - Trends in FDI with reference to India; Euro currency market and International Bond Market; Funding and Risk Management; Currency Crisis: East Asian Financial Crisis, Sub-Prime lending Crisis, Greece Crisis, Euro Crisis and Brexit. Evolutionary and Operational developments in International Institutions: IMF, IDA, ADB.	
IV	Multinational corporations-concept, growth trends, advantages, disadvantages, control, structure, impact Main Issues in International marketing, international human resource management and corporate social responsibility	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:

- Francis Cherunilam (2010), Elements of Business Environment, Himalaya Publishing House.
- Ian Brooks, Jamie Weatherston& Graham Wilkinson (2004), The International Business Environment, Prentice Hall Financial Times (Pearson Education).
- Ian Brooks, Jamie Weatherston& Graham Wilkinson (2011), The International Business Environment, Challenges and Changes, 2nd edition, Prentice Hall Financial Times (Pearson Education).
- Leslie Hamilton & Philip Webster (2018), The International Business Environment, 4th edition, Oxford University Press.
- Masaaki Kotabe&KristiaanHelsen (2004), Global Marketing Management, 3rd edition, Wiley.
- P. SubbaRao (2010), International Business Environment [Including Skill Development], Himalaya Publishing House
- Warren J. Keegan (2009), Global Marketing Management, 7th edition, Pearson.

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PartA – Introduction

Name of Programme	M.A. Business Economics
Semester	**Fourth**
Name of the Course	Business Legislations
Course Code	M24-BEC-405
CourseType	DEC-6
Level of the course	500-599
Pre-requisite for the course (if any)	n.a.
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Summarize the role of the legal system in governing and shaping the climate for business. CLO 2:List and describe the elements of a legally enforceable contract, and explain the consequences of breach of contract. CLO 3:Explain the purpose and characteristics Partnership Act. CLO 4:Understand andsummarize Negotiable Instrument Act.

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		

PartB – Contentsofthe Course

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Contract Act** The Indian Contract Act, 1872: Proposal, its communication, acceptance and revocation; Agreement vis-à-vis contract, void agreement & voidable contract; Consideration: essential elements, exception to rule; Capacity to contract; Free consent: coercion, undue influence, misrepresentation, fraud; Contingent contracts; Performance of contract; Consequences of breach of contract.	15
II	**Companies Act** The Companies Act, 1956: Meaning, characteristics and kinds; Lifting the corporate veil; Registration and incorporation; Memorandum of Association; Doctrine of Ultravires; Articles of Association; Prospectus: liability for mis-statement, statement in lieu of prospectus; Directors: Position, Appointment, Removal, Power & Duties; Meetings; Winding up. Companies Act, 2013.	15
III	**Partnership Act** The Partnership Act, 1932: Nature of Partnership; Relation of partners-	15

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	inter se; Relation of partners to third parties; Incoming and outgoing partners; Dissolution of Firm; Registration of Firms-effect of non-registration; Offences by Firm-liability under N.I. Act & I.T. Act, 2000.		
IV	**Negotiable Instruments Act** The Negotiable Instruments Act, 1881: Notes, Bills and Cheques,Promissory notes, Bills of exchange and cheques (Demand drafts, payment orders etc.); Drawer, Drawee, Acceptor, Holder, Holder in due course; Endorsement:Endorsement in blank and endorsement in full; Negotiation; Presentment: At sight, on presentment, after sight, presentment for payment; Maturity: Calculating its period, Noting and protest.		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:

- Bedi, Suresh (2009),*Business Environment*. Excel Books, New Delhi.
- Bulchandani, K.R. (2017),*Business Law for Management*,Himalaya Publishing House, New Delhi.
- Maheshwari, S.N. &Maheshwari, S.K. (2003),*A Manual of Business Law*, Himalaya Publishing House, New Delhi.
- Tulsian, P.C. (2008),*Business Law*, Tata McGraw – Hill, New Delhi.
- Tulsian, P.C. (2011),*Businessand Corporate Laws*,S.Chand& Company Limited, New Delhi.

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Session: 2025-26			
PartA – Introduction			
Name of Programme	M.A. Business Economics		
Semester	**Fourth**		
Name of the Course	Business Policy and Strategy		
Course Code	M24-BEC-407		
Course Type	DEC-7		
Level of the course	500-599		
Pre-requisite for the course (if any)	n.a.		
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Critically analyze the internal and external environments in which businesses operate and assess their significance for strategic planning. CLO 2: Apply understanding for the theories, concepts and tools that support strategic management in organizations. CLO 3: Build understanding of the nature and dynamics of strategy formulation and implementation processes at corporate and business level. CLO 4: Enhanced ability to identify strategic issues and design appropriate courses of action.		
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			

Instructions 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 questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Introduction to Business Policy and Strategy:** Nature & importance of business policy & strategy; Introduction to the strategic management process and related concepts; Characteristics of corporate, business & functional level strategic management decisions; Company's vision and mission, need for a mission statement.	15
II	**Environmental Analysis & Diagnosis:** Analysis of company's external environment; Michael E. Porter's 5 Forces model; Internal analysis, Importance of organization capabilities, competitive advantage and core competence; Michael E. Porter's Value Chain Analysis, Porters Diamond Theory of National Advantage.	15

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III	**Formulation of Competitive Strategies:** Michael E. Porter's generic competitive strategies, implementing competitive strategies- offensive & defensive moves; formulating Corporate Strategies-Introduction to strategies of growth, stability and renewal, types of growth strategies – concentrated growth, product development, integration, diversification, international expansion (multi domestic approach, franchising, licensing and joint ventures), CAGE distance framework, Types of renewal strategies – retrenchment and turnaround. Strategic fundamentals of merger & acquisitions.	15
IV	**Strategic Analysis and Choice:** Strategic gap analyses; portfolio analyses – BCG, GE, product market evolution matrix, experience curve, directional policy matrix, life cycle portfolio matrix, grand strategy selection matrix; behavioural considerations affecting choice of strategy; impact of structure, culture & leadership on strategy implementation; functional strategies & their link with business level strategies; introduction to strategic control & evaluation.	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:
- Strickland, A.J. III & Thompson, A.A. Strategic Management: Concepts and Cases, McGraw Hill Education.
- Pearce, J.A. & Robinson, R.B. Strategic Management: Formulation Implementation and Control, McGraw Hill Education.
- Kazmi, A. Strategic Management and Business Policy, McGraw Hill Education
- Porter, M.E. (1998), Competitive Advantage: Creating and Sustaining Superior Performance, NY, Free Press
- Rao, P.S. Business Policy and Strategic Management, Himalaya Publishing House.
- Kachru, U. Strategic Management, McGraw Hill Education

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Session: 2025-26			
Part A – Introduction			
Name of Programme	M.A. Business Economics		
Semester	**Fourth**		
Name of the Course	Project Appraisal and New Venture Analysis		
Course Code	M24-BEC-408		
CourseType	DEC-7		
Level of the course	500-599		
Pre-requisite for the course (if any)	n.a.		
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Perform appraisal of projects with detailed feasibility analysis. CLO 2: Develop the profitability projections. CLO 3: Develop the strategies employed in managing risk. CLO 4: Practice project management decisions and control.		
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		
PartB – Contentsofthe Course			

Instructions 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 questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Project Appraisal**: An introduction, Project appraisal and evaluation , Project life cycle, Project cycle management, Cost benefit analysis of Private and Public sector Projects; Identification of investment opportunities industry analysis review of project profiles, feasibility study, Project identification and formulation, Generation of Project ideas, Basic Principals of Project Analysis Entrepreneurship concept, theory and perspective.	15
II	**Market and Technical Appraisal:** Market feasibility analysis of a project, Need for market analysis, Demand and supply analysis, Collection analysis, primary /secondary data, Forecasting of market growth; Market forecasting techniques; Technical appraisal of a project, Technology tie ups and diffusion; Management of technology and business. **Self-Study**: Concept and Features of Market: Perfect Competition, Monopoly and Monopolistic competition, Economies of scale, concept of efficiency and market failure.	15
III	**Investment and Socio Economic appraisal:** Financial feasibility analysis, Investment decision techniques: DCF and non DCF methods, Investment	15

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	criteria, Project Appraisal parameters of select Financial Institutions; Financing options for a new venture; Economic Analysis of a project : Social cost benefit analysis rationale of SCBA, direct and indirect cost and benefits, shadow price Efficiency and Equity in Project Appraisal, UNIDO approach, Little Mirrlees Approach, Environment Impact assessment of a project and Social Impact Assessment of a project, Project Appraisal of Indian Plans.	
IV	**Project risk assessment:** Risk and Sensitivity Analysis, Taxonomy of Risks, break even analysis, Sensitivity Analysis, Risk analysis using simulation models and decision trees, Monitoring and Evaluation of a Project - PERT / CPM, Monitoring mechanism, Evaluation and Lessons, Preparation of project report - Case Analysis.	15
	Total Contact hours	60

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Suggested Evaluation Methods

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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		

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Part C-Learning Resources

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Recommended Books/e-resources/LMS:

- Agrawal, R., &Mehra, Y. S. (2017). Project Appraisal and Management, Taxman Publications. [Ch 1 and 9]
- Machiraju, H. R. (2001). Introduction to project finance: An analytical perspective, Vikas Pub. House.
- Pouliquen, L. Y. (1970). Risk Analysis in project appraisal, World Bank staff occasional papers, No.11 (Washington D.C., IBR), 52-62.
- Esty, B. C., &Sesia, A. M. (2007). An overview of project finance and infrastructure finance 2006 update, Boston, MA: Harvard Business School.
- Boardman, A. E., Boardman, A. E., Greenberg, D. H., Vining, A. R., & Weimer, D. L. (2018). Cost-benefit analysis: Concepts and practice, Cambridge: Cambridge University Press.

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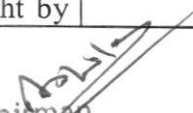KURUKSHETRA-136119.

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PartA – Introduction

Name of Programme	M.A. Business Economics
Semester	**Fourth**
Name of the Course	Indian Financial System
Course Code	M24-BEC-409
Course Type	DEC-7
Level of the course	500-599
Pre-requisite for the course (if any)	n.a.
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1:Understand the nitty-gritty of Indian financial system and banking structure CLO 2: Comprehend the NBFIs and insurance sector landscape in India. CLO 3: Grasp the various segments of Indian financial sector like capital markets, derivative markets and debt markets CLO 4: Apprehend the banks fulfilling specific requirements and regulatory framework of Indian financial system.

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		

PartB – Contentsofthe Course

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Indian Financial System – An Overview** Meaning of Financial System, financial integration, financial volatility and financial inclusion; overview of Indian Financial System, financial market infrastructure major financial sector reforms, **Indian Banking Structure** Functions, Development of Banking in India, Scheduled Commercial Banks- Types and functions, Local Area Banks, Regional Rural Banks, Cooperative Banks: Types, Payment Banks and Small Finance Banks, Key RBI Guidelines	15
II	**Non-Banking Financial Companies** What is a Non- Banking Financial Company (NBFC)?, Evolution of NBFCs in India, Role of NBFC in Promoting Inclusive Growth of India, Regulators of NBFCs ,Classification of NBFCs,Regulatory Oversight by	15

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	RBI on NBFCs ,Types of NBFCs operating in India **Insurance Companies** History and Development of Insurance. Privatisation and Foreign Direct Investment (FDI) in Insurance Sector. Insurance Business Globally and in India. Insurance Penetration and Density. Number of Insurance Companies Operating in India. Insurance Intermediaries. Reinsurance. Insurance Repository's-Insurance Account.		
III	**Capital Markets and Stock Exchanges** Primary Market, Secondary Market Stock Exchanges in India, Financial Products/Instruments Dealt with in the Secondary Market **Derivative markets** Types of derivatives, Development, prospects and progress of derivative markets in India **Fixed Income Markets - Debt / Bond Markets** Government Securities, , Auction of Government Securities, Primary Dealers, Corporate Bond Market		15
IV	**Reforms & Developments in the Banking sector** Bad Banks, Infrastructure financing, Formation/role of NaBFID-National Bank for Financing, Infrastructure & Development, Basic concepts on Enhanced Access & Service Excellence (EASE) **Few specific finance banks** Small Industries Development Bank of India (SIDBI) ,Export Import Bank of India (EXIM Bank) ,National Bank for Agriculture and Rural Development (NABARD) ,National Housing Bank (NHB) **Indian Financial System - Regulators & their roles** Role of Financial Sector Regulators in an Economy, Reserve Bank of India (RBI), Securities and Exchange Board of India (SEBI), Insurance Regulatory and Development Authority of India (IRDA), Pension Fund Regulatory and Development Authority (PFRDA).		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:

- Bhole, L.M. &Mahakud, J. (2017). *Financial Institutions and Markets: Structure, Growth and Innovations*. McGraw Hill Education (India) Pvt. Limited.
- Jadhav, N. (2006), Monetary Policy, Financial Stability, and Central Banking in India, Macmillan India Ltd.
- Ramachandran, P.P. (2016),*RBI: An Anecdotal History*, Academic Foundation.
- Sharma, M. (Ed.). (2005), *Studies in Money, Finance and Banking*, Atlantic Publishers.
- Shah, A., Thomas, S. & Gorham, M. (2008), *India's Financial Markets: An Insider's Guide to How the Markets Work*,Elsevier.
- Basu, C.R. (1991), *Commercial Banking in the Planned Economy of India*, Mittal Publications,

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Session: 2025-26	
PartA – Introduction	
Name of Programme	M.A.Business Economics
Semester	**Fourth**
Name of the Course	Business and Economic Modelling - II
Course Code	M24-BEC-412
CourseType	DEC-8
Level of the course	500-599
Pre-requisite for the course (if any)	n.a.
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand, apply and solve the volatility, efficiency and asset pricing using selected software. CLO 2: Understand and compute various problems in predictive analysis. CLO 3: Understand and compute the value of financial assets besides designing hedging strategies. CLO 4: Understand and compute the futures price alongwith dummy variable problem. - CLO 5: Demonstrate the ability to solve the problems mentioned in contents with the help of 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	3 hours	

PartB – Contentsofthe Course

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	1. Modelling Volatility in Finance and Economics: ARCH, GARCH and EGARCH Models 2. Fundamental and Technical Analysis 3. Risk and Return of Portfolio 4. Capital Asset Pricing Model (CAPM) **SELF STUDY CONTENTS (not relevant for exams):** Excel functions, SPSS, E-VIEWS, STATA	11
II	5. Logistic Regression using Maximum Likelihood in Predictive Analytics 6. Logistic Regression using Trend in Predictive Analytics 7. Exponential Smoothening in Predictive Analytics 8. Working with Moving Averages in Predictive Analytics	11

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New Delhi.

- Gupta, S.B. (1996), *Monetary planning for India*. S. Chand & Company, New Delhi.
- Hajela, T.N. (2009), *Money and Banking: Theory with Indian Banking*, Ane Books Pvt. Ltd.
- Pathak, B.V. (2018), *Indian Financial System: Markets, Institutions and Services*, Pearson India Education Services Pvt. Ltd.
- Sharma, K.C. (2007),*Modern Banking in India*, Deep & Deep Publications, Pvt. Ltd., New Delhi
- Hossain, A.A. (2015), *The Evolution of Central Banking and Monetary Policy in the Asia-Pacific*,Edward Elgar Publishing Limited, UK.

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Session: 2025-26			
PartA – Introduction			
Name of Programme	M.A. Business Economics		
Semester	**Fourth**		
Name of the Course	Indian Public Finance		
Course Code	M24-BEC-411		
CourseType	DEC-8		
Level of the course	500-599		
Pre-requisite for the course (if any)	n.a.		
CourseLearningOutcomes (CLO) After completing this course, the learner will be able to:	CLO 1: To understand the Union budget and expenditure trends in India. CLO 2: To understand the tax and non tax revenue sources of Union and states. CLO 3: To understand the trends in deficit financing and public debt in India. CLO 4: To understand the trends in centre state financial relations and local finances in India. ------------------------------------ CLO 5: To demonstrate the ability to use public finance data to study trends.		
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	3 hours	
PartB – Contentsofthe Course			

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	Classification of the Central Government Budget; Budgetary Trends in India; Budgetary Policy in India since 1951 (a Brief Review); Long-term Fiscal Policy -1985 Trends in the Expenditure of the Central Government; Expenditure of State Governments; Subsidies and their Impact	11
II	*Direct Taxes:* Revenue from Taxes on: Personal Income, Corporate Income, Capital Gains, Wealth, Property and Capital Transactions- Direct Taxes Enquiry Committee Report - Direct Tax Law Committee Report. *Indirect Taxes:* Customs Duties, Goods and Services Tax *Non-Tax Revenues:* Public Enterprises and Other Sources. Non-Tax Revenue of the States: Public Enterprises, Posts and Telegraphs, Currency and Mint, Irrigation, Forests, Electricity Schemes, Road and Water Transport Schemes.	12
III	*Deficit Financing:* Extent, Effects and Limit of Deficit Financing; Trends in Deficits. *Public Debt:* India's Public Debt before Independence (a brief mention)	11

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	and after Independence; Trends and Composition of Public Debt of Central and State Governments.	
IV	Evolution of Federal Finance in India; Financial Relations under the Constitution; Finance Commissions; Recommendations of the Fourteenth Finance Commission; Centre/State Conflict on Finances. *Local Finance*: Local Bodies and their Functions; Finances of Local Bodies; Local Taxation.	11
V	**Practicals:** 1. Students will prepare a Practical file containing 2 Practicals from each unit. 2. Practicals may be done using the software chosen by the teacher. 3. The external examiner shall take the written exam followed by viva voce. 4. Syllabus contains all the contents mentioned in the four units.	30
	Total Contact Hours	75

Suggested Evaluation Methods			
Internal Assessment: 30		**End Term Examination: 70**	
➢ **Theory**	20	➢ **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, Viva-Voce, write-up and execution of the Practical	
• Seminar/Demonstration/Viva-voce/Lab records etc.:	5		
• Mid-Term Exam:	-		

Part C-Learning Resources

Recommended Books/e-resources/LMS:

- Mankar V.G., and SuseelaSarma, (2001) *Public Finance- Theory and Practice,* Himalaya Publishing House, Mumbai.
- Sundaram K.P.M and K.K. Andley, (2003) *Public Finance- Theory and Practice,* S. Chand and Company Ltd., New Delhi.
- Agarwal A.N. (2014) *Indian Economy-Problems of Development and Planning,* WishwaPrakashan, NewDelhi.
- Bhatia H.L. (2007) *Public Finance,* Vikas Publishing House Pvt., Ltd.
- DattRuddar and K.P.M.Sundaram, (2007) *Indian Economy,* S. Chand and Co., Ltd., New Delhi.

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	SELF STUDY CONTENTS (not relevant for exams): Excel functions, SPSS, E-VIEWS, STATA	
III	9. Multiple Linear Regression in Predictive Analytics 10. The Black Scholes Merton Model 11. Binomial Trees 12. Trading Strategies involving Options SELF STUDY CONTENTS (not relevant for exams): Excel functions, SPSS, E-VIEWS, STATA	11
IV	13. Determination of Forward and Future Prices 14. Hedging using Futures 15. Relevant Costs For Discounted Cash Flow Analysis: Incremental Cash Flows 16. Dummy variables analysis SELF STUDY CONTENTS (not relevant for exams): Excel functions, SPSS, E-VIEWS, STATA	12
V	**Practicals:** 1. Students will prepare a Practical file containing 4 Practicals from each unit. 2. Practicals may be done using the software chosen by the teacher. 3. The external examiner shall take the written exam followed by viva voce. 4. Syllabus contains all the contents mentioned in the four units.	30
Total Contact Hours		75

Suggested Evaluation Methods			
Internal Assessment: 30		**End Term Examination: 70**	
➢ **Theory**	20	➢ **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, Viva-Voce, write-up and execution of the Practical	
• Seminar/Demonstration/Viva-voce/Lab records etc.:	5		
• Mid-Term Exam:	-		

Part C-Learning Resources

Recommended Books/e-resources/LMS:

- Gary Koop: Analysis of economic data, John Wiley & Sons, 2005
- Thomas Cleff: Applied Statistics and Multivariate Data Analysis for Business and Economics: A Modern Approach Using SPSS, Stata, and Excel, Springer
- Kurt Jechlitschka, Dieter Kirschke and Gerald Schwarz: Microeconomics using Excel: Integrating economic theory, policy analysis and spreadsheet modeling, Routlage
- ShmuelOluwa: Hands-On Financial Modeling with Excel for Microsoft 365, Packt Publishing
- AbdulkaderAljandali and MotasamTatahi: Economic and Financial Modelling with EViews-A Guide for Students and Professionals
- Joaquim P. Marques de Sá: Applied statistics using SPSS, STATISTICA, MATLAB and R, Springer
- Robert P. Burns, Richard Burns : Business Research Methods and Statistics Using SPSS, Sage

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Session: 2025-26	
Part A – Introduction	
Name of Programme	M.A. Business Economics
Semester	**Fourth**
Name of the Course	Financial Econometrics
Course Code	M24-BEC-413
Course Type	DEC-8
Level of the course	500-599
Pre-requisite for the course (if any)	
Course Learning Outcomes (CLO) After completing this course, the learner will be able to:	CLO 1: Understand and analyze financial markets, apply basic time series models, and evaluate risk and return measures in investment decisions. CLO 2: Conduct stationarity tests, model and forecast time series data using ARIMA models, and analyze volatility using ARCH and GARCH models. CLO 3:Apply multivariate time series analysis techniques, estimate beta using the CAPM, construct efficient portfolios, and conduct event studies to analyze stock price impacts. CLO 4:Analyze high-frequency financial data, apply non-linear modeling approaches, and conduct empirical applications in financial econometrics to understand market dynamics. - CLO 5: Demonstrate the ability to solve the problems mentioned in contents with the help of a software

	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		

PartB-Contents of the Course	

Instructions 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 questions will carry equal marks.

Unit	Topics	Contact Hours
I	**Introduction to Financial Econometrics** Definition, scope and importance of financial econometrics, Basics of financial markets and data sources, Basic financial instruments: stocks, bonds, options and futures), Descriptive statistics and graphical analysis of financial time series, Introduction to basic time series models: AR, MA,	12

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	ARMA, Overview of financial risk and return measures, Applications of financial econometrics in finance and investment.		
II	**Time Series Analysis and Modelling** Stationarity and its importance in econometric modeling, Tests for stationarity: Dickey-Fuller test and unit root analysis, Transformations for achieving stationarity , Autoregressive Integrated Moving Average (ARIMA) Models: Model identification, estimation, and diagnostic checking, Volatility modeling: ARCH and GARCH models.	11	
III	**Multivariate Analysis and Financial Markets** Multivariate time series analysis: VAR models, Granger causality tests and impulse response analysis, The Capital Asset Pricing Model (CAPM) and beta estimation, Factor models and principal component analysis, Portfolio theory and the efficient frontier, Risk-adjusted performance measures, Event Studies: Methodology for analyzing the impact of events on stock prices, Abnormal returns and event windows, Interpreting event study results and limitations.	11	
IV	**High-Frequency Data Analysis and Market Microstructure** Introduction to high-frequency data (tick data, order book data) and its characteristics, Market microstructure and its impact on high-frequency data, Challenges in analyzing high-frequency data, Non-linear modeling approaches: Threshold models, regime-switching models, Time-varying parameter models and state-space models, Empirical applications and case studies in financial econometrics	11	
V	**Practicals:** 1. Students will prepare a Practical file containing 4 Practicals from each unit. 2. Practicals may be done using the software chosen by the teacher. 3. The external examiner shall take the written exam followed by viva voce. 4. Syllabus contains all the contents mentioned in the four units.	30	
Total Contact Hours			
		75	

Suggested Evaluation Methods

Internal Assessment: 30		End Term Examination: 70	
Theory		**Theory:**	**50**
Class Participation:	20	Written Examination	
Seminar/presentation/assignment/quiz/class test etc.:	5		
Mid-Term Exam:	5		
	10		
Practical		**Practical -20**	
Class Participation:	10	Lab record, Viva-Voce, write-up and execution of the Practical	
Seminar/presentation/assignment/quiz/class test etc.:	5		
	5		

Part C-Learning Resources

Recommended Books/E-Resources/LMS:
- Greene, W. H. (2023). Econometric Analysis (9th ed.). Pearson Education.
- Gujarati, D. N., & Porter, D. C. (2009). Basic Econometrics (5th ed.). McGraw-Hill.
- Lo, A. W., &MacKinlay, A. C. (2022). The Econometrics of Financial Markets (5th ed.). Princeton University Press.
- Hull, J. C. (2023). Options, Futures, and Other Derivatives (10th ed.). Pearson Education.

(Chapters 1-3)

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- Brigham, E. F., &Ehrhardt, M. C. (2020). Financial Management: Theory and Practice (15th ed.). Cengage Learning. (Chapters 3-5)
- Montgomery, D. C., & Myers, R. H. (2021). An Introduction to Linear Regression Analysis (7th ed.). John Wiley & Sons. (Chapter 2)
- Hyndman, R. J., &Athanasopoulos, G. (2019). Forecasting: principles and practice (3rd ed.). (Chapter 2)
- Hamilton, J. D. (2018). Time Series Analysis (2nd ed.). Princeton University Press. (Chapters 2-3)
- Enders, W. (2010). Applied Econometric Time Series (3rd ed.). John Wiley & Sons. (Chapters 2-3)
- Sharpe, W. F. (1994). The Sharpe Ratio. Financial Analysts Journal, 50(1), 49-58.
- Hamilton, J. D. (2018). Time Series Analysis (2nd ed.). Princeton University Press. (Chapter 2)
- Enders, W. (2010). Applied Econometric Time Series (3rd ed.). John Wiley & Sons. (Chapter 3 & 4)
- Wooldridge, J. M. (2010). Introductory Econometrics: A Modern Approach (5th ed.). South-Western Cengage Learning.
- Hamilton, J. D. (2018). Time Series Analysis (2nd ed.). Princeton University Press.
- Hyndman, R. J., &Athanasopoulos, G. (2019). Forecasting: principles and practice (3rd ed.). [Online text]: OTexts.com. (Chapters 4 & 5)
- Brockwell, P. J., & Davis, R. A. (2016). Introduction to Time Series and Forecasting (3rd ed.). Springer Series in Statistics (Perspectives in Statistics). Springer New York.(Chapter 7)
- Hamilton, J. D. (2018). Time Series Analysis (2nd ed.). Princeton University Press. (Chapter 22)
- Gujarati, D. N., & Porter, D. C. (2009). Basic Econometrics (5th ed.). McGraw-Hill. (Chapter 8)
- Koop, G. (2003). Analysis of Financial Time Series (2nd ed.). John Wiley & Sons. (Chapter 4)
- Jorion, P. (2009). Value at Risk (3rd ed.). McGraw-Hill. (Chapter 2)
- Campbell, J. Y., Lo, A. W., &MacKinlay, A. C. (2019). The Econometrics of Financial Markets (5th ed.). Princeton University Press. (Chapter 20)
- West Grinold, S., & Kahn, R. N. (2000). Active Portfolio Management (2nd ed.). McGraw-Hill. (Chapter 2)
- R. S. Tsay, 2005, Analysis of Financial Time Series, Wiley Series in Probability and Statistics, 2nd edition
- J. Y. Campbell, A. W. Lo, and A. C. MacKinlay, 1997, The Econometrics of Financial Markets, Princeton University Press.
- Hamilton, J. D. (2018). Time Series Analysis (2nd ed.). Princeton University Press. (Chapter 9)
- Lütkepohl, H. (2005). New Introduction to Multiple Time Series Analysis. Springer Series in Statistics (Perspectives in Statistics). Springer Berlin Heidelberg. (Chapters 11-12)
- Stock, J. H., & Watson, M. W. (2018). Introduction to Econometrics (4th ed.). Pearson Education. (Chapter 10)
- Bodie, Z., Kane, A., & Marcus, A. J. (2023). Investments (11th ed.). McGraw-Hill Education. (Chapter 8)
- West Grinold, S., & Kahn, R. N. (2000). Active Portfolio Management (2nd ed.). McGraw-Hill. (Chapter 13)
- Sharpe, W. F. (1990). Fundamentals of Investment Management (2nd ed.). Prentice Hall. (Chapter 22)
- Campbell, J. Y., Lo, A. W., &MacKinlay, A. C. (2019). The Econometrics of Financial Markets (5th ed.). Princeton University Press.(Chapter 19)
- Grinold, R. C., & Kahn, R. N. (1995). Active Portfolio Management (1st ed.). McGraw-Hill. (Chapter 14)
- Campbell, J. Y., Lo, A. W., &MacKinlay, A. C. (2019). The Econometrics of Financial Markets

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(5th ed.). Princeton University Press. (Chapter 18)

- Harris, R. J. (2020). Financial Econometrics using R (3rd ed.). Cambridge University Press. (Chapter 2)
- Banerjee, A. K., Harris, R. J., &Hillebrand, E. R. (2011). High-Frequency Financial Econometrics: Microstructure Noise, Liquidity and Volatility. Cambridge University Press.(Chapter 1)
- O'Hara, M. (2015). Market Microstructure Theory. Blackwell Publishing Ltd. (Chapter 3)
- Dacorogna, M. M., Müller, U. A., &Pictet, O. V. (2001). Volatility in Financial Markets. Princeton University Press. (Chapter 4)
- Gouriéroux, C., &Jasiak, J. (2009). Econometrics of Discrete Choices (2nd ed.). Cambridge University Press. (Chapter 10)
- Hamilton, J. D. (2018). Time Series Analysis (2nd ed.). Princeton University Press. (Chapter 8)
- Kim, C.-J. (1994). Dynamic Linear Models with Switching Regimes. Journal of Econometrics, 60(1-2), 39-78. (Chapter 11)
- High-Frequency Trading and Market Microstructure Tutorial Series by Professor Erik G. Baltensperger: https://www.quantstart.com/articles/high-frequency-trading-i-introduction-to-market-microstructure/ (Provides video lectures and code examples for high-frequency data analysis)
- The Society for Financial Econometrics (SFE): https://www.stern.nyu.edu/experience-stern/about/departments-centers-initiatives/centers-of-research/volatility-and-risk-institute/sofie.

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<table>
<tr><td colspan="4" align="center">Session: 2025-26</td></tr>
<tr><td colspan="4" align="center">PartA—Introduction</td></tr>
<tr><td>Name of the Programme</td><td colspan="3">M.A. Business Economics</td></tr>
<tr><td>Semester</td><td colspan="3">Fourth</td></tr>
<tr><td>Name of the Course</td><td colspan="3">Business Case Studies</td></tr>
<tr><td>Course Code</td><td colspan="3">M24-BEC-415</td></tr>
<tr><td>CourseType</td><td colspan="3">EEC</td></tr>
<tr><td>Level of the course</td><td colspan="3">500-599</td></tr>
<tr><td>Pre-requisite for the course (if any)</td><td colspan="3" align="center">n.a.</td></tr>
<tr><td>CourseLearningOutcomes (CLO)
After completing this course, the learner will be able to:</td><td colspan="3">CLO 1: To understand the digital transformation in business through cases.
CLO 2: To learn production, costs and consolidation with the help of cases.
CLO 3: To understand the change management, banks globalization and digitization through real life cases.
CLO 4: To understand industry analysis, value creation and research process in business decisions trough cases.
CLO 5: To solve the case studies in syllabus and demonstrate the ability to develop a new case.</td></tr>
<tr><td>Credits</td><td align="center">Theory</td><td align="center">Practical</td><td align="center">Total</td></tr>
<tr><td></td><td align="center">1</td><td align="center">1</td><td align="center">2</td></tr>
<tr><td>Teaching Hours per week</td><td align="center">1</td><td align="center">2</td><td align="center">3</td></tr>
<tr><td>Internal Assessment Marks</td><td align="center">10</td><td align="center">5</td><td align="center">15</td></tr>
<tr><td>End Term Exam Marks</td><td align="center">20</td><td align="center">15</td><td align="center">35</td></tr>
<tr><td>Max. Marks</td><td align="center">30</td><td align="center">20</td><td align="center">50</td></tr>
<tr><td>Examination Time</td><td align="center">3 hours</td><td align="center">3 hours</td><td></td></tr>
<tr><td colspan="4" align="center">PartB – Contentsofthe Course</td></tr>
</table>

Instructions 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 unitand the compulsory question.All questions will carry equal marks.

Unit	Topics	Contact Hours
I	Digital Economy Case Studies- 03	3.5
II	Case Studies in Finance – 03	3.5
III	Case Studies in Marketing and General Management -03	3.5
IV	Case Studies in Industry and Research -03	3.5
V	**Practicals:** 1. Students will prepare a Practical file containing 1 case study from each unit along with a self-developed case. 3. The external examiner shall give a case study to solve as the written exam followed by viva voce.	30

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4. Syllabus contains all the contents mentioned in the four units.		
Total Contact Hours		45
Suggested Evaluation Methods		
Internal Assessment: 15	**End Term Examination: 35**	
Theory	10	**Theory:**	20
Class Participation:	4	Written Examination	
Seminar/presentation/assignment/quiz/class test etc.:	-		
Mid-Term Exam:	6		
Practical	5	**Practical**	15
Class Participation:	-	Lab record, Viva-Voce, write-up and execution of the Practical	
Seminar/Demonstration/Viva-voce/Lab records etc.:	5		
Mid-Term Exam:	-		

Part C-Learning Resources

Recommended Books/e-resources/LMS:
- HaraldØverby and Jan ArildAudestad, Introduction to Digital Economics, Foundations, Business Models and Case Studies, Springer
- Pieter W. Buys and MerweOberholzer, Business Research - An Illustrative Guide to Practical Methodological Applications in Selected Case Studies, Palgrave Macmillan
- Scott Andrews, Learning and Researching with Case Studies, Taylor & Francis
- ArijitSikdar and Vijay Pereira, Business and Management Practices in South Asia, Palgrave Macmillan
- Mayank Joshipura and Sachin Mathur, Cases in Corporate Finance, Routledge

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