

**Department of Applied Economics**  
**Faculty of Commerce**  
**M.Com. (Applied Economics)**

**Programme Objectives**

- To provide high quality and in-depth understanding of core as well as new areas in applied economics.
- To enable students to be well versed in the traditional, modern and emerging trends in the discipline.
- To acquaint students with knowledge and skills on core subjects like Economic Development and Planning, Business Economics, Public Finance and Policy, Public Utility Economics, Applied Business Statistics, Transport and Rural Economics, etc.
- To imbibe expertise in understanding and managing various dimensions related to International Trade, Foreign Exchange Management, International Banking & Finance, etc.
- To impart education on new disciplines such as Accounting for Economic Decisions, Quantitative techniques for business decisions and Computer Applications.

**Programme Outcomes**

The M.Com (Applied Economics) programme is mainly oriented towards professional development taking into consideration the global and domestic economic arena. The curriculum is designed to make the students familiar with the right blend of theory and practice to solve economic and social issues. The students shall gain in-depth knowledge and analytical skills to examine the economic issues the nation is facing today. It also imbibes economic reasoning, which the learners can apply in their day-to-day life as workers or citizens. The programme develops a sense of innovativeness, creativity and sensitivity to deal with the various domestic and global issues faced by the economies.

**Programme Specific Outcomes**

After completing the course of M.Com (Applied Economics), the students will be able to ó

- Pursue a career as a professional economist.
- Pursue research in the area of economics
- Teach in colleges and universities after qualifying the requisite tests.
- Work as banking professionals after qualifying requisite tests.
- Work as quantitative or market research analyst.
- Make a career in accountancy and business services
- Work as statistical assistant and analyst of economic planning

## M.Com (Applied Economics) Programme Structure University of Lucknow

The programme shall be governed by the Department of Applied Economics, Faculty of Commerce, University of Lucknow, Lucknow.

### Programme Structure

The M.Com (Applied Economics) programme is divided into two parts as under. Each part will consist of two semesters.

Part	Year	Semester – Odd	Semester - Even
I	1 <sup>st</sup> Year	I Semester	II Semester
II	2 <sup>nd</sup> year	III Semester	IV Semester

The schedule of papers during first year of the programme shall be as follows:

#### Part I: Semester I

Paper Code	Name of Paper	Core/ Elective	Credit	Marks		Total Marks
				Written	Internal Assessment	
MAE- 101	Advanced Economic Analysis – I	Core	4	70	30	100
MAE- 102	International Trade/ MOOC	Core	4	70	30	100
MAE- 103	Statistical Analysis	Core	4	70	30	100
MAE- 104	Accounting for Financial Decisions – I	Core	4	70	30	100
MAE- 105	Environment and Resource Economics	Core	4	70	30	100
MAE- 106	Industrial Economics	Core	4	70	30	100
MAE-107	Credited Value-added Course: French Language/German Language		4	-	-	-
<b>Total Credits/ Marks of Semester I</b>			<b>28</b>			<b>600</b>

#### Part I: Semester II

Paper Code	Name of Paper	Core/ Elective	Credit	Marks		Total Marks
				Written	Internal Assessment	
MAE- 201	Advanced Economic Analysis – II	Core	4	70	30	100
MAE- 202	Demography and Population Studies	Core	4	70	30	100
MAE- 203	Accounting for Financial Decisions – II	Core	4	70	30	100
MAE- 204	Foreign Exchange Management	Core	4	70	30	100
MAE- 205	Rural Economics	Core	4	70	30	100
MAE- 206	Non-credit Value Added Course (YOGA)	Core		-	-	-
<b>Total Credits/ Marks of Semester II</b>			<b>20</b>			<b>500</b>

The schedule of papers during second year of the programme shall be as follows:

**Part II: Semester III**

Paper Code	Name of Paper	Core/Elective	Credit	Marks		Total Marks
				Written	Internal Assessment	
MAE- 301	Economic Development and Policy	Core	4	70	30	100
MAE- 302	Advanced Macroeconomics	Core	4	70	30	100
MAE- 303	Internship	Core	4	-	-	100
MAE-304	Comprehensive viva-voce	Core	-	-	-	100
<b>Core Elective – (Choose any one Group)</b>						
<b>[Group – A] Financial System and Operations</b>						
MAE- 305	Indian Financial System	Core Elective	4	70	30	100
MAE -306	Monetary Theory and Practice	Core Elective	4	70	30	100
<b>[Group – B] Economics and Quantitative Applications</b>						
MAE- 307	Public Utility Economics	Core Elective	4	70	30	100
MAE -308	Quantitative Techniques for Economic Analysis	Core Elective	4	70	30	100
<b>Open Elective: Choose any One</b>						
MAE-309	Business Environment	Open Elective	4	70	30	100
MAE-310	International Business	Open Elective	4	70	30	100
MAE-311	Insurance & Risk Management	Open Elective	4	70	30	100
MAE-312	Intra-Departmental Paper	Open Elective	4	70	30	100
<b>Total Credits/ Marks of Semester III</b>			<b>24</b>	-	-	<b>700</b>

**Part II: Semester IV**

Paper Code	Name of Paper	Core/Elective	Credit	Marks		Total Marks
				Written	Internal Assessment	
MAE- 401	Research Methodology	Core	4	70	30	100
MAE- 402	Dissertation & Viva-Voce	Core	8	-	-	200
<b>Core Elective – (Choose any one Group)</b>						
<b>[Group – A] Financial System and Operations</b>						
MAE-403	International Banking	Core Elective	4	70	30	100
MAE- 404	Managing Personal Finance	Core Elective	4	70	30	100
<b>[Group – B] Economics and Quantitative Applications</b>						
MAE- 405	Econometrics: Theory & Application	Core Elective	4	70	30	100
MAE- 406	Public Economics	Core Elective	4	70	30	100
<b>Open Elective: Choose any One</b>						
MAE -407	Entrepreneurship and MSME	Open Elective	4	70	30	100
MAE -408	Agricultural Economics	Open Elective	4	70	30	100
MAE -409	Banking Law and Practice	Open Elective	4	70	30	100
MAE -410	Inter-Departmental Paper	Open Elective	4	70	30	100
<b>Total Credits/ Marks of Semester IV</b>			<b>24</b>			<b>600</b>
<b>Grand Total Credits/Marks Semester I to IV</b>			<b>96</b>			<b>2,400</b>

**Note:**

1. There will be 3 lecture hours of teaching and 2 tutorials per week for each paper.
2. Tutorials consist of seminars and presentation periods.
3. Each paper will be of 4 credits.
4. The students have to undergo Internship for Six to Eight weeks in the month of May & June after Second Semester Examination.
5. In III and IV Semester, the student will have to choose any one group out of the given two groups A & B. The students will have to study both the papers of the group chosen. The chosen group will remain same in Semester III and IV.  
Group A – Financial System and Operations  
Group B – Economics and Quantitative Applications
6. Out of the open electives in Semester III and IV, the students will have to choose any one of the given options.
7. Intra Departmental Paper means papers opened by Department of Commerce and Business Administration.
8. Inter Departmental paper means paper opened by other Departments in the University except Faculty of Commerce.
9. Following papers will be open for **other department students** under **Open elective** group:

For <b>Semester III</b> students of Dept. of Commerce & Business Administration (Under Intra- Departmental)	Industrial Economics
For <b>Semester IV</b> students of Other Faculty except Faculty of Commerce (Under Inter- Departmental)	Public Economics

10. Dissertation assessment and Viva-Voce examination will be of 100 marks each.
11. Each theory paper will be of 100 marks out of which 70 marks will be allocated for semester written examination and 30 marks for internal assessment.
12. Internal assessment consists of:
  - a. Mid-Semester Examination – 15 marks
  - b. One Assignment/Presentation – 10 marks
  - c. Attendance and overall performance – 5 marks
13. Duration of examination for each paper shall be of 3 hours.

**M.COM (APPLIED ECONOMICS)**  
**UNIVERSITY OF LUCKNOW**

**1<sup>st</sup> Semester Syllabus**

**MAE- 101- ADVANCED ECONOMIC ANALYSIS- I**

**Course Objective:** The aim of the course is to help equip the students with basic tenets of the advanced micro economic theory. This along with macro-economics forms the robust foundation for understanding other specific study areas of the subject.

**Course Outcome:** Students should be able to understand the core concepts of demand, cost and production within the broad neo-classical and behavioural economics framework. They will get familiarized with basic mathematical tools related to the core concepts outlined above. Thus equipped with this theoretical and mathematical knowledge, they should be in a better position to understand the dynamics of real world problems.

**Unit óI**

Consumer Behaviour- Measurement of Utility: Cardinal vs Ordinal Approaches, Direct and Indirect Utility Function. Indifference Curve Analysis: Decomposition of price effect (Slutsky Approach); Compensated and Uncompensated Demand Function. Applications of Indifference Curve: Consumer Surplus, Rationing, Tax. Network Externalities: Bandwagon, Snob, and Veblen effects.

**Unit óII**

Theory of Revealed Preference: Strong and Weak Ordering and Theory of Demand. Hicksø Revision of Demand Theory; Attribute Approach to Demand Theory. Consumer Choice under Risk and Uncertainty: The Neumann óMorgenstern Method.

**Unit óIII**

Concept of Demand Function; Elasticity of Demand and Supply ó Measurement of Arc and Point Elasticity. Demand Forecasting ó Purpose, Methods and Demand for New Products, Criteria of Good Forecasting Method

**Unit óIV**

Theory of Production: Homogeneous Production Function, Elasticity of Input Substitution and Technological Progress, Cobb-Douglas, CES. Cost Function: Meaning and Types of Cost, Traditional and Modern Theory of Cost and Saucer shaped cost curves; Concept of Cost Function and its Measurement; Economies and Diseconomies of Scale.

**Unit óV**

Market and Pricing: Perfect Competition and Equilibrium under Increasing, Decreasing and Constant Cost Industry, the Concept of Supply Curve. Monopoly: Degree of Monopoly Power, Bilateral Monopoly, Price Discrimination in Monopoly.

**Recommended Books:**

1. Ahuja, H.L. ó Advanced Economic Theory
2. Jhingan, M.L. ó Advanced Economic Theory
3. Varshney R.L. & Maheshwari K.L. ó Managerial Economics
4. Maheshwari, K. L. & Maheshwari, R. K.- Vyavasaik Evam Prabandhakiya Arthshastra.(Hindi)

5. Maheshwari, K. L. & Maheshwari, R. K. ó Advanced Economic Analysis.
6. Koutsoyannis ó Modern Microeconomics
7. Varian, H. R. ó Intermediate Microeconomics.
8. Vaishampayan, J.V. ó Managerial Economics

## MAE-102 -INTERNATIONAL TRADE

**Course Objective:** The objective of this course is to provide the students with an opportunity to completely learn and understand how trade is conducted in the international arena.

**Course Outcome:** By learning this course, students would gain the requisite managerial skills to meet any challenge they face in the international business market.

### Unit ó I

**General-** Characteristic of International Trade, Inter-regional and International Trade, Gains and Problems of International Trade. Foreign Trade Policy in India, **Multilateral Agencies-** GATT, WTO, UNCTAD

### Unit II

**Theories of International Trade-** Classical Theory of International Trade, Opportunity Cost Theory, Heckscher ó Ohlin Theory, Stolper - Samuelson Theorem, Leontief Paradox, Porter's Diamond model of Competitiveness.

### Unit ó III

**Terms of Trade-** Concept, Measurement, Types, Factors affecting Terms of Trade, **Free Trade, Protection and Tariffs-** Merits and Demerits, Methods of Protection- Types of Tariffs, Effects of Tariffs on International Trade, Import Quotas, Dumping, Non-Tariff Barriers (NTB), etc.

### Unit óIV

**International Capital Movement-** FDI and FII, Globalization and its Impact. Status of FDI in Leading Economies in the world- USA and China.

### Unit ó V

**Regional Economic Groupings-** EU, SAARC, NAFTA, ASEAN. **International Institution-**IBRD and IMF **International Economic Forums-** G-8, G-20, BRICS.

### Recommended Books:

1. Haberler G. ó Theory of International Trade
2. Jaiswal Bimal & Shimpi Leena- International business and trade
3. Jaiswal, Bimal & Sunita Srivastava ó International Trade
4. Jaiswal, Bimal ó International Business
5. Jaiswal Bimal & Richa Banerjee- Introduction to international business
6. Maheshwari R.K. & Rastogi Ekta & Sharma Jai Lakshmi - Introduction to International Business
7. Maheshwari K L, R K Maheshwari: लोक ँव अंतराळ ँयापार
8. Maheshwari K L, R K Maheshwari: Public Finance and International Trade
9. Jhingan M.L. ó International Economics
10. Yadav R.S. & Pandey Prashant ó Trade of India (Hindi)

11. Goswami V.K ó International Trade

### **MAE-103- STATISTICAL ANALYSIS**

**Course Objective:** The objective of this course is to augment the understanding of students about basic knowledge of principles of Statistics as well as statistical tools and techniques so that as to apply these for the analysis and interpretation of economic and business data in the dynamic economic environment.

**Course Outcome:** By studying the contents of this paper the students would be able to comprehend skilfully nature and scope of statistics. On the one hand they will understand descriptive statistics and its extensive uses in defining and demonstrating data, on the other hand they shall be able to inculcate knowledge regarding the application of some advanced statistical techniques in social and economic fields. Probability Theory and Distribution, an advanced mathematical technique, will enhance their practical understanding of the real world problems based on chance. The students shall also know about objectives of Sampling Theory and identifying, formulating and testing of research hypotheses. Being a job oriented course, employment avenues in the areas of data compilation and interpretation, business forecasting; as statistical analyst in various government departments as well as in the corporate sector are manifold.

#### Unit ó I

**Statistics-** Meaning, application and limitations, Scope and Importance of Statistics, Diagrammatic representation of data. **Data Analysis** Univariate and Bivariate analysis - Measures of Central Tendency- Arithmetic Mean, Geometric Mean, and Harmonic Mean, Median, Mode.

#### Unit ó II

Measures of Dispersion- Range, Quartile Deviation, Mean Deviation, Standard Deviation. Coefficient of variation, Correlation- Meaning, Types and Measurement. Regression Analysis- Regression Lines, Regression Coefficient and Estimation.

#### Unit ó III

**Probability Theory and Probability Distribution-** Meaning and Concepts of Probability, Permutation and Combination, Addition And Multiplication Theorem, Bernoulli Theorem, Bayes Theorem. **Probability Distribution-** Binomial, Poisson and Normal Distribution with Simple Application.

#### Unit óIV

**Sampling Theory and Design-** Statistical Population and Random Samples, Sampling Theory, Sampling Techniques, Sample Design, Sampling Distribution, Standard Error and its significance, Statistical Inference- Point and Interval Estimation, Hypothesis Formulation, Types of Hypothesis, Testing of Hypothesis-Types and Procedure, Errors in Hypothesis Testing.

#### Unit ó V

Statistics of Variables and Statistics of Attributes, Consistency of data, Association of Attributes. **Statistical Quality Control:** Concept, Utility and Methods, Types of Control Chart, Construction of Control Charts.

#### **Recommended Books:**

1. Yule and Kendall ó Introduction to the Theory of Statistics
2. Singh Anoop Kumar- Statistical Methods (English and Hindi)
3. Elhance D N ó Fundamental of Statistics

4. Shukla and Sahai ó Statistical Analysis
5. Gupta S P ó Statistical Methods
6. Singh S P ó Statistics: Theory and Practice

## **MAE-104- ACCOUNTING FOR FINANCIAL DECISIONS – I**

**Course Objective:** The objective of this course is to help develop an insight into the various functions of finance like its management, availability and uses in order to maximize shareholders' wealth.

**Course Outcome:** After learning this course, students would be able to understand the financial position and apply the included techniques and concepts to manage the finances of any business organisation.

### **Unit –I**

Role of Finance in Business Decision Making, the concept of Time Value of Money, Present Value, Future Value and Annuities, Principles of Capital Investment, Profit Maximization, Wealth Maximization & Value Maximization- A Dilemma.

### **Unit –II**

Sources of Funds ó Share, Debentures, Preference Shares etc., Capital Structure ó Theories, NI, NOI and Traditional Approach,

### **Unit–III**

Capitalisation: Concept, Over and Under-capitalisation: causes and remedies, Leverage and MM Theory, EBIT ó EPS Analysis.

### **Unit–IV**

Techniques of Capital Budgeting- Payback, ARR, NPV, PI and IRR, Simple Methods to tackle Risk and Uncertainty.

### **Unit–V**

Concept of Cost of Capital, Cost of different sources of Funds, Weighted Average Cost of Capital (WACC).

### **Recommended Books:**

1. Nanue A S ó Economic Analysis for Business Decisions
2. Jaiswal Bimal & Shimpi Leena- Business Finance
3. Vaishampayan J. V. ó Financial Management
4. Horowitz ó An Introduction to Quantitative Business Analysis
5. Jaiswal Bimal & Shimpi Leena- Concepts in Valuation
6. Gupta A S ó Human Resources Accounting
7. Das ó Human Resources Accounting
8. Jaiswal Bimal & Shimpi Leena - Company Accounts
9. Bhattacharya & Deardon ó Accounting for management.
10. Gupta S P ó Vittiya Prabandha (Hindi)

## **MAE- 405- ENVIRONMENT AND RESOURCE ECONOMICS**



(w.e.f. July 2020)

**Course Objective:** The objective of this course is to acquaint the students with the different correlated concepts of environment, development and economics and also employability by Natural resources with correlation economics resources.

**Course Outcome:** After learning this course, students would be able to understand the concepts, practices and laws pertaining to environment and economics of resources. Students would be also able to understand environmental values, green environment and environmental ethics.

### **Unit – I**

**Environment and Ecology** ó Concept of Environment and Ecology. Concept, Nature and Scope of Environmental Economics. Meaning and Types of Environmental Degradation. Pollution: Causes and Effects- Air, Water, Land etc.

### **Unit – II**

**Natural Resources** ó Concept, Definition and Classification of Natural Resources. Concept of Scarcity Role of Natural Resources in Extraction and Productive Activity, Concept of Reserve to Production (R/P) Ratio.

### **Unit – III**

Economic Growth and Sustainable Development, Sustainable Rules, Environmental Quality: Environmental Kuznets Curve, Economic value of Environment, Environment Economy Interaction,

### **Unit-IV**

**Economics of Exhaustible Resources** ó Pricing and Exhaustion Date, Hotelling Model, Limits to Growth Theory, Inter-Temporal Allocation in Exhaustible Resource, Optimal Depletion of Endorsements, Conservation and Preservation of Resources, Economic Effects of Resource Exhaustion.

### **Unit-V**

Environment and Trade, Environment and Population, Environmental Risk, Various conferences on Environment, Environmental Laws and Policies.

### **Recommended Books:**

1. Meier G.M. and Rauch J.E. ó Leading Issues in Economic Development ó Oxford.
2. Todaro M.P. ó Economic Development in the Third World.
3. Hamley N., Shogyen J.F. & White B. ó Introduction to Environmental Economics.
4. Alen Randall ó Resource Economics: An Economic Approach to National Resources and Environmental Policy.
5. Vaishampayan J.V. ó Energy and Economic Development: An Analysis of Energy ó Economics Interactions

## **MAE-106- INDUSTRIAL ECONOMICS**

### **Course Objective:**

With descriptive information about industrial and commercial organization such as supplies of factor of production, trade and commercial policies of the government and degree of competition in the business. With analytical information such as market analysis, pricing, choice of techniques and so on.

(w.e.f. July 2020)

**Course Outcome:** This course aims to describe economic problems of firm and industries. The focus is upon understanding the behaviour of business firms under different market conditions.

### **Unit-I**

Introduction and scope of Industrial Economics; Types and choice of organizational form ó ownership and control; The Firm and its objectives; Market structure and market conduct; optimum size of a firm;

### **Unit-II**

Market concentration, its measurement and effects on market performance; Diversification, Integration and Merger, Research & Development and Innovation; Product differentiation and advertisement. Determinants of profitability.

### **Unit-III**

Product pricing (in practice): mark-up price, incremental price, target rate of return price, transfer price, two-part tariff, bundling, pricing in public enterprises; Industrial Efficiency: concept, determinants, measurement and decision-making process; Theories of growth of firm: Downie, Penrose and Marris.

### **Unit-IV**

Industrial finance: need type and sources of industrial finance; Industrial location Analysis: determinants of Industrial location; Theories of Industrial location-Weber and sergeant Florence; Industrial Productivity - Partial and Total productivity, Measurement and Determinants.

### **Unit-V**

Government regulation of Indian industries: Industrial policy and Competition Act; Trends in industrial growth since 1991; Performance and problems of Micro, Small, Medium Enterprises; Role of MNCs in India; Technology and Foreign Collaboration Policy; NRI Investment Issue; Joint Ventures in India; Global Competition emerging trend; Government's recent policies.

### **Recommended Books:**

- 1.Barthwal, R.R. ó Industrial Economics: An Introduction Text Book (2e)
- 2.Dhingra and Dhingra ó Industrial Economics
- 3.Hay, A.D. and D.J. Morris ó Industrial Economics and Organization: Theory and Evidence
- 4.Panagariya, Arvind ó India: The Emerging Giant
- 5.Andreosso, Bernadette, Jacobson, David. ó Industrial Economics and Organization
- 6.Das, Satya P. ó Microeconomics for Business
- 7.Martin, Stephen ó Advanced Industrial Economics
- 8.Philips, Louis (Ed.) ó Applied Industrial Economics.
- 9.Stead et al. ó Industrial

### **MAE-107- FRENCH LANGUAGE**

**Course Objective:** The objective of this course is to equip the students, who are complete beginners in French, with the four skills of language i.e. reading, writing, speaking and comprehension.

**Course Outcome:** After learning this course, students would be able to acquire communication skills in the French language, making them more competitive.

### **Unit I :**

Se presenter, Dire les nationalites et les professions, l'alphabet et les nombres jusqu'a 60, Savoir Saluer dire l'adresse, Conjuguer au present les verb etre, avoir, regarder, parlars ecouter, lire, ecrire et

comprendre, les jours et les mois, article definit et indefinit, demander et repondre << qui est-ce ? et qu'est-ce que c'est?

### **Unit II :**

Les loisirs et les lieux; a, au, a l, a la, aux, en, chez; les verbs au present faire, aller, rester, venir, aimer, adorer, preferer; il y a; l'heure (quelle heure est-il?, il estí .; imperatif des verbs-commencer arriver, partir, entrer, sortir, vouloir, pouvoir, savoir et connaitre (conjugaison au present; interrogation et negation.

### **Unit III :**

Des adjective pour decire une personne, ses qualities et ses defaults; interroger et repondre avec 'si'; feminin et pluriel des adjectifs; demander l'age; savoir les nombre jus qu'a 1000000; voici, voila, c'est ici/la/la-las, c'est pres(de)/loin(de); les adjectives demonstratif-ce, cet,cette et ces; les nombres ordinaux-premier, deuxieme (second)í í centineme; conjugaison des verb-vendre, acheter, batiment et les meubles

### **Unit IV :**

Les repas de la journee, les legumes; conjugaison au present des verbs ó gouter, choisir, commander, manger, boire; exprimer la quantite avec les articles partifs ó de, du, de l', de la et des; les pronoms après les preposition ó moi, toi, leu, elle, nous, vovs, eux et ells; moií í aussi/ moií .. non plus; le temps matin/apres midi etc; conjugaison au present des, verbs pour les activites de la journee come-se reveiller, se lever, se laver, s'habiller, prendre le petit dejeuner, partir travailler, dejeuner se promener, se reposer, se coucher et dormir; construction negatif et interrogatif et en forme infinitive des verbs prononinales; c'est sur/ce n'est pas sur; encore/un autre; les adjectives possessives ó mon/ma mes tom/tattes, son/sa/ses, etc.

### **Unit V :**

Les veterments de l'homme et de la femme, les materiaux comme cuir, velours etc. et lest couleurs Dire la taille, la pointure, le poids et les mesure et ausi le prix; Tout ó Comme adjective-tout, toute tous et toutes; Tout ó comme pronom ó tout, tous; Imperatif des verbs pronomiaux comme se lever; conjugaison des verbs (au present-se lever, etre debout, se coucher, s'asseoir; lex ingredients de la cuisine comme le sucre, le sel etc. les ustencils, comme poel, casserole etc.; Donner des ordre/interdire; construction avec "il faut" et avec le verb "devoir,

### **SUGGESTED READINGS :**

1. Le Nouveau Sans Frontiere 1 (Unit I & II)
2. S.P. Singh - Cours de la langue Francaise en hindi, Langers Publication, Delhi
3. S.P. Singh ó French Tenses and Art of Conjugaison, Shreya Publications, Delhi
4. M. Dondo ó Modern French Course
5. G. Mauger ó Cours de la langue Francaise et de civilization, Goyal Publication, Delhi

### **GERMAN LANGUAGE**

**Course Objective:** The objective of this course is to equip the students, who are complete beginners in German language, with the four skills of language i.e. reading, writing, speaking and comprehension.

**Course Outcome:** After learning this course, students would be able to acquire communication skills in the German language, making them more competitive.

**Unit I :**

Introduction to Germany, Basic grammar structure, Nouns (Singular, plural, Numbers, Days, Months, Seasons, Colours.

**Unit II :**

Personal Pronouns, Verbs, Conjunctions, Prepositions, Articles, Adjectives, Prepositions.

**Unit III:**

Tenses, Sentences constructions, Interrogative sentences, Affirmative sentences, Negative sentences.

**Unit IV :**

Comprehension, texts, paragraph, writing, vocabulary.

**Unit V :**

Culture, Market, industry, theatre, music.

**SUGGESTED READINGS**

1. Netzwerk deutsch als Fremd sprache ó A1 , Goyal Publishers & Distributors, Delhi
2. Langeuscheidt ó German in 30 days.
3. German Vocabulary, TEP Books
4. Collins ó Easy Learning German Grammar

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**2<sup>nd</sup> Semester Syllabus**

**MAE- 201- ADVANCED ECONOMIC ANALYSIS – II**

**Course Objective:** The course is a sequel to Advanced Economic Analysis-I. It aims to acquaint the student with various market forms and the more realistic theories of firm. To gain insight into practical and real world scenario, students are made familiar with approaches of game theory, information economics, general equilibrium analysis and generalized factor pricing theory.

**Course Outcome:** The students should be able to apply their enhanced theoretical and practical knowledge to analyse the real market situations as well as the realistic behaviour of the consumer under uncertain economic environment. The mathematical techniques used in this course will equip the students to understand further advanced areas in the subject, namely, econometrics; advanced macroeconomics; and research methodology. Once employed, the knowledge gained in this course will help them to keep abreast with the emerging developments so as to excel in their chosen vocation.

**Unit ó I**

**Monopolistic Competition:** Group Equilibrium, Existence of Excess Capacity, Comparison with Perfect Competition, Analysis of Selling Cost. **Oligopoly:** Non-Collusive Oligopoly- Models of Cournot, Chamberlin, Sweezy and Stackleberg; Collusive Oligopoly: Cartel and Price Leadership Models-Low cost, dominant firm and barometric models. **Pricing policies** ó Introduction to Various Pricing Policies.

Unit óII

**Managerial Theories of the Firm:** Baumolø, Marris and Williamson. Behavioural Theory of the Firm: Cyert and March model. **Theory of Limit Pricing:** Contribution of Bains. **Market Failure and Asymmetric Information:** Quality Uncertainty, Market Signalling, Moral Hazard and Principal-Agent Problem.

Unit óIII

**Game Theory:** Zero-Sum Game and Non zero-sum game; Concept of Dominant and Dominated Strategies. Alternative Methods of Determination of Optimal Pay-Offs and Nash Equilibrium. Prisonersø Dilemma.

Unit óIV

**The Theory of General Equilibrium:** Problem of Existence, Uniqueness and Stability of General Equilibrium. The Walrasian General Equilibrium Model: 2x2x2 Graphical General Equilibrium Model.

Unit óV

**Factor Pricing under Perfect and Imperfect Factor Market. Welfare Economics:** Old Welfare Economics: Marshall and Pigou, Pareto and Welfare Economics: Criteria and Optimality, Compensation Principle: Hicks, Kaldor and Scitovsky.

**Recommended Books:**

1. Ahuja, H.L. ó Advanced Economic Theory
2. Maheshwari, K. L. & Maheshwari, R. K. ó Advanced Economic Analysis.
3. Varshney R.L. & Maheshwari K.L. ó Managerial Economics
4. Vaishampayan, J.V. ó Managerial Economics
5. Jhingan, M.L. ó Advanced Economic Theory
6. Maheshwari, K. L. & Maheshwari, R. K.- Vyavasaik Evam Prabandhakiya Arthshastra.(Hindi)
7. Koutsoyannis ó Modern Microeconomics
8. Varian, H. R. ó Intermediate Microeconomics.

**MAE- 202- DEMOGRAPHY AND POPULATION STUDIES**

**Course Objective:** This paper aims to equip the student with a comprehensive understanding of techniques of demographic analysis on the one side and on the other it is concerned with the problem oriented approach aiming at analyzing the ramifications of population on various aspects of economy; biological, social, economic, cultural and so on. It also will acquaint the student with past, present and future population scenario and trends at the national as well at the world levels.

**Course Outcome:** The students will be able to comprehend various complex demographic issues and problems plaguing developing economies and also the shortcomings of various policy packages to tackle these. Their technical skills in the area will also be enhanced. Being a comprehensive course in itself, the students with the knowledge gained from this paper, are in a position to go in for specialized study of the same being offered by various universities in the country and abroad. There is a plethora of job

opportunities for the students in the field of research, academics, planning; and as an analyst or a statistician.

### **Unit – 1**

Meaning and Scope of Demography, Relationship with other Sciences. Techniques of Demographic Analysis - Marriage and Marital Dissolution=Measures of Fertility and Reproduction=Factors affecting Fertility=Measures of Mortality=Factors affecting mortality=Life Table - Construction and its Uses= Methods of Population Projection.

### **Unit – II**

Migration - Concept, Definition, Source of Data and Causes, Internal and International Migration. Urbanisation and Urban Growth ó Concept, Definition, Source of Data and Causes. Relationship between Urbanisation and Migration ó Theories of Lewis, Fei-Ranis, and Harris-Todaro.

### **Unit - III**

Theories of Population: Biological Theories ó Malthusian and Neo-Malthusian Theory, Spencer, Doubleday and Pearl and Reeds=Socio - Cultural Theories ó Socialist Views, Karl Marx and Dumont=Economic Theories - Theory of Optimum Population, and Liebenstein's theory.

### **Unit IV**

Population and Economic Development - Theory of Demographic Transition (Theories of Thomposon & Notestein, C P Blacker, Karl Sax, Cowgill and Modern Theory)= Concept of human development. Population Pyramid ó Concept and Types.

### **Unit - V**

Population Trends in different Regions of the World with special reference to Developing countries. Population in India- Size, Growth and Composition=Census in India. Factors affecting Fertility, Mortality and Migration in India=Population Policy in India=Family Planning Programme of India and its Achievements.

### **Recommended Books:**

1. Barclay, G.W. ó Techniques of population analysis.
2. Bhende, Asha A. Ad T Kanitkar, ó Principles of Population Studies.
3. Jhingan, M L, B K Bhatt and J N Desai, ó Demography.
4. Mandal, R.B. Ujanga, J. Prasad, H- Introductory Methods in Population Analysis.
5. Srivastava, O.S. ó Demography and population studies.
6. Srivastava, K. ó Basic Demography Technique and applications.
7. Datt & Sunderan ó Indian Economy.
8. Government of India- Ministry of Health and Family Welfare, Family Welfare Programme in India
9. Population Council ó Population Policies in Developing Countries.
10. Chaubey, P.K. ó Population Policy for India
11. Mishra, J.P. ó Janankiki
12. Gupta, S N ó Janankiki ke Mooltatva.

### **MAE- 203- ACCOUNTING FOR FINANCIAL DECISIONS -II**

(w.e.f. July 2020)

**Course Objective:** The objective of this course is to provide an insight into the various functions of finance like its management, availability and uses in order to maximize shareholders' wealth.

**Course Outcome:** After learning this course, students would be able to understand the financial position and apply the included techniques and concepts to manage the finances of any business organisation.

#### **Unit – I**

Analysis of Financial Statement: Ratio Analysis- Debt Ratios, Coverage ratios, Profitability Ratios, Efficiency Ratios, Liquidity Ratios.

#### **Unit - II**

Analysis of changes in Financial Position-Funds Flow and Cash Flow Analysis.

#### **Unit – III**

Working Capital Management ó Financing of Working Capital, Operating Cycle, Liquidity Management, Management of Inventories (EOQ).

#### **Unit – IV**

Management of Cash ó Cash Budget, Management of Receivables ó Credit Policies, Credit Terms and Collection Policies.

#### **Unit – V**

Dividend Policies ó Factors Determining Dividend Policies, Dividend Pay-out Ratio, Forms of Dividend and Price of Share ó Walter and Gordon Models, Stable Dividend Policy Informational Content of Dividend.

#### **Recommended Books:**

1. Mathur, S.B. ó Working Capital Management & Control
2. Jaiswal Bimal & Shimpi Leena- Business Finance
3. Vaishampayan, J.V. ó Financial Management
4. Jaiswal Bimal & Shimpi Leena- Concept in Valuation
5. Vanhorne, V. James ó Financial Management & Policy.
6. Pandey, I.M. ó Financial Management
7. Khan & Jain ó Financial Management
8. Jaiswal Bimal & Shimpi Leena - Company Accounts
9. Maheshwari, S.N. ó Advanced Accounting Vol. II
10. Gupta, S P ó Vittiya Prabandha (Hindi)

#### **MAE- 204- FOREIGN EXCHANGE MANAGEMENT**

**Course Objective:** The objective of this course is to acquaint the students with the foreign exchange market, its functioning, various concepts and nomenclatures, policies and laws related to it.

**Course Outcome:** This course shall prepare the students in dealing with foreign currencies and acquaint them with updated knowledge related to foreign exchange.

#### **Unit – I**

Concept and Significance of Foreign Exchange, Functions of Foreign Exchange Department, Foreign Exchange Markets, Role of RBI and Management of Foreign Exchange Reserves

### **Unit óII**

Exchange Arithmetic ó Foreign Exchange Transactions, Exchange Quotations, Ready Exchange Rates, Bill Buying and Selling rates, Ready Rates based on Cross Rates.

### **Unit – III**

Forward Exchange Rates, Forward Contract-Concept, RBI Guidelines for forward contract, types of forward contract- Fixed and Option Forward Contracts, Forward Rates based on cross Rates.

### **Unit óIV**

Execution of Forward Contracts, Cancellation of Forward Contract, Extension of Forward contracts. Difference between Forward, Future and Currency Contract, International Financial Market.

### **Unit- V**

Exchange Control ó Objectives and Methods of Exchange Control, Exchange Control in India, FERA, FEMA, Foreign Exchange Risk Exposure.

### **Recommended Books:**

1. Jaiswal Bimal ó International Finance / Foreign Exchange Management
2. Bhagwati, J and Srinivasan, T.N. (Eds.) ó Foreign Exchange regimes and Economics Development
3. DockoróForeign Exchange
4. Jeevanandan, C. ó Foreign Exchange
5. Verghese, S.K ó Foreign exchange and financing of foreign trade.
6. RBI ó Exchange Control Manual
7. NABHI ó Foreign Exchange Manual

## **MAEó205- RURAL ECONOMICS**

### **Course Objectives:**

ÉTo acquaint the students with the fundamentals of Rural Economics.

ÉTo develop understanding related to various concepts of Rural Economics.

ÉThe paper focuses on various programmes run by Government of our nation for the development of rural areas.

### **Course outcome**

Provides students with a very sound theoretical base in various areas of Rural Economics and acquaints the students with various concepts of Rural Economics.

### **Unit – I**

The place of Agriculture in the National Economy; Land Tenure and Land Reforms, Consolidation of Land holdings, Ceiling on big holdings, Co-operative and Collective farming, Progress of agriculture under five Year Plans, Cropping Pattern in India, Irrigation, Fertilizers and Manures, Soil Conservation and Reclamation, Mechanization of Agriculture,

### **Unit – II**

Indian Agriculture Policy, Agricultural subsidies, Food Corporation of India and Public Distribution System, Integrated PDS. WTO and Indian Agriculture,



### **Unit-III**

Green Revolution., Panchayati Raj, Programmes of Rural Development (Central and State). Agricultural Prices and Cob-Web Theorem.

### **Unit – IV**

**Rural Finance:** Sources of Rural Finance, Role of RBI in Rural Credit, Refinancing through NABARD, Regional Rural Banks, Cooperative and Commercial Banks.

### **Unit – V**

**Agricultural Labour** - Meaning, causes of growth, conditions and problem, and measures for improvement and minimum wages. Village and Cottage Industries.

### **Recommended Books:**

1. Dutt and Sundaram – Indian Economy
2. Mishra and Puri – Indian Economy
3. Jaiswal Bimal - Indian Economy

### **MAE- 206- YOGA (Non-Credit Paper)**

**Course Objective:** The objective of this course is to inculcate the habit of practices of yoga for healthy and stress-free living.

**Course Outcome:** After learning this course, students would be able to increase their concentration and their physical and mental well-being shall be benefitted.

### **Unit I**

Introduction: History, Concept and Development, Origin of yoga, aims and objectives of yoga.

### **Unit II**

Schools of Yoga: Astang yoga, Karma yoga, Bhakti yoga, Hatha yoga.

### **Unit III**

Patanjal Yoga Sutra: Introduction, Samadhi Pad, Sadhan Pad, Vibhuti Pad and Kaivulya Pad.

### **Unit IV**

Asanas: Concept, Definition, Types, Techniques and Benefits.

### **Unit V**

Pranayama and Meditation: Concept, Definitions, Types and Benefits.

### **SUGGESTED READINGS :**

1. Dr. P.D. Mishra ó Yoga : Ek Parichay
2. Swami Satyanand Saraswati ó Asan, Pranayama Mudra and Bandh
3. Patanjali Yoga Darshan, Geeta Press, Gorakhpur
4. Swami Shivanand ji - Dhayna Yoga
5. Swami Niranjana Nand Saraswati ó Pran evam Pranayam

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**MAE – 301- ECONOMIC DEVELOPMENT AND POLICY**

**Course Objective:** The objective of this course is to help the students learn the important concepts and theories of economics of development and policy.

**Course Outcome:** After learning this course, the students will be familiar with all the aspects of development, growth, economic reforms and planning.

Unit óI

**Economic Development** - Economic Development and Economic Growth, Under Development and Development, Changing Paradigm of Development, Characteristics of a Developing Economy, Nature and Problems of India Economy, Determinant of Economic Development, Obstacles to Development.

Unit óII

**Theories of Economic Growth and Development** - Classical Theory, Malthusian Theory, Karl Markø Theory, Rostowø Stages of Economic Growth, Keynesian Development, Big Push Theory, Balanced and Unbalanced Growth, New Growth Theoryó Endogenous Models of Development, Various Plan Models.

Unit óIII

Economic and Non- Economic factors in Development, Natural Resources, Human Capital and Manpower Planning, Employment, Infrastructure, Capital formation, Agriculture and Industrial Sector, National Income.

Unit óIV

**Reforms for Development in India** - Economic Reforms and Liberalisation- Rationale for Internal and External Reforms, Key Reforms introduced in India and Their Impact, The Future Reforms Agenda.

Unit- V

**Economic Planning in India** ó Meaning, Types, Rationale, Historical Perspective, Strategy, Techniques of Planning, Regional Planning, NITI Aayog.

**Recommended Books:**

1. Bhagwati J. & Desai P ó Planning for Industrialisation.
2. Todaro M.P ó Economic development in the Third World
3. Meier G.M. ó Leading Issues in development Economics
4. Thirwal A.P. ó Growth and Development.
5. Ghatak S. ó Development Economics
6. Kurihara K.K. ó Keynesian Theory of Economic Development.
7. Seth M.L. ó Theory and Practice of Economic Planning.
8. Misra S.K. & Puri V.K. ó Development and Planning Theory and Practice.
9. Jhingan M.L. ó Economics of Development and Planning.

10. Government of India ó Five Year Plan and Economic Survey.

**MAE – 302- ADVANCED MACROECONOMICS**

**Course Objectives:** This course is meant to give students insight into the dynamics of our national economy. The knowledge gained in the course will make students better informed citizens and allow them to follow the debates over national economic policy. The course will also help them to understand the dynamics of open market economy and business cycles in detail. The course aims to enhance the macroeconomic research skills and employability of the students. This course is also a foundation course that will prepare students to be successful in advanced level economics, government, and public economics courses.

**Course Outcomes:** Upon successful completion of the course a student will be able to: Explain the concepts of Macroeconomics and its interrelations with Microeconomics. Associate the current economic phenomenon with existing theory and put their views on contemporary economic issues. Apply the principle of Macroeconomics in explaining the behaviour of Macroeconomic variables at national as well as global level.

**Unit –I**

Introduction to Macroeconomics; Keynesian Models versus Classical Models: Says Law, quantity theory of money, price flexibility and full employment, equilibrium concept in classical model, synthesis between classical models and Keynesian models, interpretation and policy analysis

**Unit –II**

Classical, Structural and Monetarist Approaches to Inflation; Inflationary Gap and Double Inflationary Gap (Bent Hanson); Phillips Curve Analysis — Short Run and Long Run Phillips Curve; Samuelson and Solow — the Natural Rate of Unemployment Hypothesis; Tobin's Modified Phillips Curve.

**Unit –III**

Open Economy Aspects Market for foreign exchange, devaluation and depreciation, real and nominal exchange rate, factors affecting exchange rate, Mundell-Fleming model, fixed versus floating exchange rate, price adjustment, role of fiscal and monetary policies under alternative exchange rate regimes, purchasing power parity concept.

**Unit –IV**

Role of fiscal and monetary policies under alternative exchange rate regimes, purchasing power parity concept. NBER procedure, measurement, dissection and synchronization, indicators, coincident, forward and leading indicators,

**Unit- V**

Empirical analysis of business cycle models with special emphasis on India, macro-economic models in India and forecasting.

**Recommended Books:**

1. Dornbusch, Fischer and Startz, –Macroeconomics
2. N. Gregory Mankiw –Macroeconomics
3. Olivier Blanchard – Macroeconomics,
4. Richard T. Froyen – Macroeconomics,
5. Andrew B. Abel and Ben S. Bernanke, – Macroeconomics
6. Errol D-Souza, –Macroeconomics,
7. Paul R. Krugman, Maurice Obstfeld and Marc Melitz, –International Economics.
8. Vaishampayan, J.V. –Macroeconomic Theory and Policy,
9. Ahuja, H L Macroeconomic Theory.
10. Dwivedi, D N– Macroeconomic Theory.

### **MAE- 303- Internship**

**Course Objective:** The objective of this course is to provide the students with first-hand industrial working experience which helps them related theory with practice.

**Course Outcome:** After finishing this course, the students would be able to understand the practical working of different kinds of organisations.

### **MAE- 304- Comprehensive Viva-Voce**

**Course Objective:** The objective of this course is to evaluate the students' overall learning and understanding by conducting a viva-voce for each of them.

**Course Outcome:** After finishing this course, students shall be judged on the basis of their performance in the comprehensive viva-voce.

### **MAE – 305- INDIAN FINANCIAL SYSTEM**

**Course Objective:** The objective of this course is to familiarise the students with the concept, markets and functioning of the financial system in India.

**Course Outcome:** By learning this course, the students shall be able to understand the financial system prevalent in India. It may even help them to make a career in this field.

#### **Unit –I**

Concept of Financial system, Evolution of financial System, Structure & Function of Indian Financial System, Role of the Financial System in the Economy, Reforms in Financial System, Mobilisation of resources from International Markets.

#### **Unit –II**

Money Market: Composition, Function and Instruments. Indian Capital Markets: Features, Function, Structure and Instruments. Primary Market: Functions & Issue Mechanism (IPO, Book Building, Stock Option etc.), & SEBI guideline. Recent Marketing Strategies for Public Issues, Intermediaries in Primary Market.

#### **Unit –III**

Secondary Market: Functions and Organization, Trading and Settlement, Stock Exchange Index, Internet Trading. Concept of Derivative and Debt Market in India, SEBI: Purpose & Functions, Measures taken by SEBI. Stock Exchanges: Type of Operation and Operation in Stock Exchanges, Demutualisation of Stock Exchange.

#### **Unit –IV**

Listing of Securities: Types, Procedure and Guidelines. Investor's Protection: Need Common Grievances of Investors, Method of redressal of Grievances, Grievances Redressal Authorities. Venture Capital: Meaning, Origin, Objectives, Stages, problems of venture capital financing, Growth of venture capital services in India.

#### **Unit- V**

Investment Bank, Merchant Bank, Depository and Custodians, Credit Rating Agencies, Factoring and Forfeiting, Lease, Hire Purchase, Housing Finance, Mutual Funds, Insurance Institutions and Regulatory Framework.

#### **Recommended Books:**

1. Jaiswal Bimal & Venkatraman B ó Indian Financial System
2. Khan, M. Y. ó Indian Financial System
3. Jaiswal Bimal & Venkatraman ó Financial Market Operations
4. Jaiswal Bimal & Venkatraman ó Financial market institutions and financial services
5. Srivastava, R M. ó Management of Indian Financial Institutions

#### **MAE- 306- MONETARY THEORY AND PRACTICE**

##### **Course Objective:**

ÉTo acquaint the students with the fundamentals of Monetary Economics.

ÉTo develop understanding related to various concepts of Monetary Theory.

ÉTo provide students a sound theoretical base related to the paper.

##### **Course outcome**

Provides students with a very sound theoretical base in various areas of Monetary Economics and acquaints students with various concepts of Monetary Economics. Provides students's knowledge about monetary policy of various leading nations of the world.

#### **Unit –I**

**Monetary Standards:** Brief history and present scenario. Price Movement since Independence causes for the rise in price in India, measurement of inflation in India: WPI and CPI methods.

#### **Unit –II**

**Money and Prices:** Introduction, Fisher's Transaction Approach to the Quantity Theory of Money, the Quantity Equation in Income Form. The Cambridge Cash Balance Approach. Quantity theory of money as a theory of money income, quantity theory of money as a theory of price, modern quantity theory of money and its appraisal.

#### **Unit –III**

**The Demand for Money:** Introduction, Nominal Vs Real Cash Balance. The Neoclassical theory, Keynesian theory, Friedman's Theory.

#### **Unit –IV**

**Theory of Money Supply:** Reserve Bank's analysis of money supply. **Monetary Policy of India** ó objectives, framework, process and instruments.

### **Unit –V**

**Monetary Policy:** Federal Reserve Bank (USA), Bank of England (UK) and European Central Bank- Comparison with Indian Monetary System.

#### **Recommended Books:**

1. Kurihara, K.K.-Monetary Theory and Public Policy
2. Jaiswal Bimal ó Currency, Banking and Exchange
3. Gupta, S B-Monetary Policy
4. Dutt and Sundaram-Indian Economy
5. Seth, M.L.-Monetary Policy
6. Jhingan, M L-Monetary Policy

### **MAE – 307- PUBLIC UTILITY ECONOMICS**

**Course Objective:** The objective of this course is to acquaint the students with the various concepts, mechanisms and regulations of public utility.

**Course Outcome:** The students shall gain immense knowledge and learn about the working of the public utility sector.

#### **Unit –I**

Concept of Public Utilities ó Economic Concept, American Concept, Types of Public Utility Regulations.

#### **Unit –II**

Rate Making in Public Utilities- Rate level and Rate Structure- Meaning and distinction, Determination of Rate Level, Determination of Rate Structure, Marginal Cost Pricing, Ratemaking in Electricity Undertaking.

#### **Unit –III**

Public utilities in India ó Forms of organization, Post and telegraph services, Radio and television- Air Organisation, T.V. services in India, Autonomy for Radio and T.V. Prasar Bharti.

#### **Unit –IV**

Working of Power Corporation, Central and State Electricity Regulatory Commission, Salient Features of Electricity Supply Act, Electricity Rate Schedules, Consumer Categories.

#### **Unit –V**

Public Enterprise: Meaning, Definition, Difference between public and private Enterprise, Forms of Organisation.

#### **Recommended Books:**

1. Barnes I.R. ó Economics of Public Utility regulation.
2. Clemens E.W. ó Economics and Public Utilities.
3. Sleeman J.F. ó British Public Utilities.
4. Choudhary R.K. ó Economics of Public Utility

5. Laxmi Narain ó Principles Practice of Public Enterprise
6. Centre for Public Sector Studies ó Profitability Accountability and Social Responsibility of Public Enterprises
7. Maheshwari R.K. ó Electricity Rate Making and Tariff Regulations

## **MAE- 308- QUANTITATIVE TECHNIQUES FOR ECONOMIC ANALYSIS**

**Course Objective:** The emphasis of the course is on understanding economic concepts specifically the courses on microeconomic theory and macroeconomic theory with the help of mathematical methods. This course will equip the students with an understanding of the optimization tools like Linear programming and game theory.

### **Course Outcome**

To use the techniques of mathematical analysis which are commonly applied to understand and analyse economic problems. To use the operations research techniques that play an important role in managerial decision-making.

### **Unit – I**

Mathematical Economics- Partial Differentiation and Economic Application, Partial Elasticities (Direct and Cross). Elementary Integral Calculus and Economics Application, Calculus of Price Discrimination, Constrained Optimization ó Lagrangian Multiplier Technique, Baumol's Sales Maximization Model (Sales Revenue).

### **Unit – II**

Linear Programming- Graphic Method, Simplex Method, Duality, Transportation Problem.

### **Unit – III**

Inventory Economics - Various Inventory Models, Economic Order Quantity, Discounts- Cost Comparison Approach, Re-order Point, Safety Stock and Stock-outs, Determining Optimum Safety Stock Level, ABC Analysis, Assignment Model

### **Unit – IV**

Input-Output Analysis- Assumption, Technological Coefficient, Closed and Open Input-Output model. Tools of Project Management- GANTT Chart & PERT- CPM.

### **Unit - V**

Theory of Games - Classifying Games, Pay-off Matrix, Principle of Dominance, Maximum Strategy, Saddle Point, Pure Strategies, Mixed Strategies ó 2x2, 2xnx2 games and mxn games

Recommended Books:

1. Dowsett, W.T. ó Elementary Mathematics in Economics
2. Chiang A.C. and K. Wainwright ó Fundamental methods of Mathematical Economics
3. Mehta B. C. and G. M. Madhani ó Mathematics for Economists.
4. Allen R.G.D. ó Mathematical Analysis for Economists
5. Schaum's Outline ó Mathematical economics
6. Sharma J. K. ó Operation Research
7. Kapoor V.K. ó Operation Research.

8. Bronson R. ó Schaum's Outline on Operation research  
9. Lall M. ó Operation Research and Decision-Making Skills

### **MAE-309- BUSINESS ENVIRONMENT**

**Course Objective:** The aim of this course is to familiarize the students with the various aspects of International and National environment to be considered for decision-making.

**Course Outcome:** After learning this course, students shall have a good understanding of the components of the environment affecting business organisations and their implications upon it.

#### **Unit óI**

The Concept of Business Environment, Types, Significance and Nature, Economic and Non-Economic factors of Business Environment, The Interaction Matrix of Economic and Non-Economic Environment, Environmental Scanning, Basic Philosophies of Economic Systems.

#### **Unit –II**

The Business and Government Relationship, The Need and Forms of Government Intervention, The Constitutional Provisions affecting Business, MRTP/ Competition Act-2002, IDRA, FERA/FEMA, SEBI Act, CSR.

#### **Unit –III**

The Economic Policy Framework, Industrial Policy, Monetary Policy, Fiscal Policy and EXIM Policy- Their Recent Trends and Business Implications, Liberalization and Privatization.

#### **Unit óIV**

Need and importance of Foreign Trade, Types of Foreign Trade, Institutions Facilitating Foreign Trade especially EXIM Bank and ECGC,

#### **Unit - V**

Globalization, Strategies of Globalization, MNCs, Nature, Role and Operations, Present Position of MNCs in India, India's Foreign Trade Policy.

#### **Recommended Books:**

1. Salim Sheikh ó Business Environment
2. Fernando A. C. ó Business Environment
3. Cherunilam Francis ó Business Environment
4. Jaiswal B.& Manoj S.- Business Environment
5. Adhikari, M ó Economic Environment of Business
6. Ghosh, P.K. ó Business and Government
7. Maheshwari K.L., Maheshwari R.K., Ram Milan - Business Organization
8. Debroy, Bibek ó Economic and Social Environment
9. Govt. of India ó Economic Survey
10. Maheshwari K.L., Maheshwari R.K., Bhatia Madhu - ँयसायक संगठन
11. RBI ó Currency and Banking, Quarterly Bulletins



### **MAE- 310- INTERNATIONAL BUSINESS**

**Course Objective:** The objective of this course is to expose the students to the concepts of international business, challenges faced and strategies adopted when conducting international business.

**Course Outcome:** After learning this course, students would be able to understand how business is conducted in the international work-space.

**Unit I** - An Overview of International Business: Introduction, Definition of International Business, difference between international and domestic business, Advantages And Disadvantages Of International Business, Approaches to International Business, Changing Environment of International Business, Globalization of Markets, Trends in Globalization, Effects and Benefits of Globalization, balance of payment and foreign exchange.

**Unit II** -International Trade and Investment Theories: Mercantilism; Absolute Cost theory, Comparative Cost theory, Opportunity Cost theory, factor endowment theory, Complimentary trade theories ó Stolper ó Samuelson theorem, International Product life Cycles. Investment Theories ó Theory of Capital Movements, Market Imperfections theory; Internationalisation Theory; Location Specific Advantage Theory; Eclectic Theory, Instruments of Trade Policy- Tariffs, Subsidies, Import Quotas, Voluntary Export Restraints, Administrative Policy, Anti-dumping Policy.

**Unit III** - Foreign Exchange Determination Systems: Basic Concepts Relating to Foreign Exchange, Various types of Exchange Rate Regimes ó Floating Rate Regimes, Managed Fixed Rate Regime, Purchasing Power Parity Theory, Factors Affecting Exchange Rates, Brief History of Indian Rupees Exchange Rates. India's Foreign Trade: Recent trends in India's Foreign Trade, Export Houses, Export Assistance- SEZ, EPZ, APEDA, export procedures and documentation.

**Unit IV** - International Institution: UNCTAD, Its Basic Principles and Major Achievements, IMF, Role of IMF, IBRD, Features of IBRD, WTO, Role and Advantages of WTO India's patent policy and trips. Regional Economic Integration: Introduction, Levels of Economic Integration, Regional Economic Integration in Europe, Regional Economic Integration in U.S.A: NAFTA, Andean community, ASEAN, SAARC, Integration for Business.

#### **SUGGESTED READINGS**

- 1) Agarwal Raj - International Trade (Excel, 1st Ed.)
- 2) Jaiswal Bimal - International Business (Himalaya Publication)
- 3) Hill C.W. - International Business (TMH, 5th Ed.)
- 4) Kumar R and Goel, International Business, (UDH Publications, edition 2013)
- 5) Cherunilam F - International Trade and Export Management (Himalaya, 2007)

### **MAE- 311- INSURANCE AND RISK MANAGEMENT**

**Course Objective:** This course will help the students to learn the basics and fundamentals of insurance principles and practices of the insurance industry.

**Course Outcome:** After learning this course, students would be able to understand the world of insurance and they would be able to make decisions related to insurance. It may even help them to adopt this as a profession.

### **Unit I**

Introduction: History of insurance in general and in India in particular. Basic nature of insurance. Definition of insurance. Comparison of Life Insurance with other forms of insurance. Principles of contract and its applicability to the valid insurance contract.

### **Unit II**

Principles of Life insurance and its impact on insurability. Morality tables and its kind. Basic elements in computation of premium. Peculiarities of life insurance product and the classification Nature of group insurance and types of group Insurance covers Policy claims and its procedures for settlement of various type of claims.

### **Unit III**

Study of various proposal and policy forms used in general Insurance Scope of coverage of fire insurance and Marine insurance, Motor insurance Various kinds of miscellaneous insurances Describe classes of insurances requiring specialized knowledge i.e. industrial all risk insurance, aviation insurance, oil and gas insurance.

### **Unit IV**

Basic concept of risk, classification of risks, and process of risk management. Identification and evaluation of risk ó risk analysis. Risk control ó loss prevention and its importance. Risk financing and transfer of risks. Risk retention and its importance/basis of reinsurance. Classification of hazards.

### **Unit- V**

Regulatory provisions under Insurance Act 1938, and IRDA Act 1999. Underwriting practice and procedures, types.

### **SUGGESTED READING:**

- Life Insurance - By Kenneth Black (Jr.) and Harold Skipper (Jr.),
- Insurance & Risk Management- Bimal Jaiswal
- Fundamentals of Risk and Insurance- by Emmett J. Vaughan, Therase Vaughan
- Principles of Risk management and Insurance- by George E. Rejda

### **MAE- 312- Intra- Departmental Paper**

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### **MAE- 401: RESEARCH METHODOLOGY**

**Course Objective:** The objective is to equip the students with the basic understanding of research methodology and to provide an insight into the application of modern tools of analysis and interpretation for advanced research.

(w.e.f. July 2020)

**Course Outcome:** The study of this paper would enable the students to gain insight about the conceptual framework of research and different tools and techniques what can be applied while investigating any field of interest. The students will learn how to identify a research problem and what kind of research design is best suited to that research problem or theme under given environment. They will also be familiar with the Tests of hypotheses and result verification and validation. They shall be equipped with innovative thinking and skills to prepare a sound and meaningful research report. A proper understanding of the methodology and techniques of research will improve the logical reasoning of the students. The knowledge of this paper is very helpful for the students aspiring in academics or research institutions and various organisations.

### **Unit-I**

Concept, Features, Objectives and Significance of Research, Philosophy of Research, Scope of Research in Economics, Induction and Deduction methods of Research, Problems in Economic Research, Types of Research- Pure and Applied Research, Conceptual and Empirical Research, Qualitative and Quantitative Research, Descriptive and Analytical Research, Exploratory Research, Experimental Research, Evaluative Research, Historical Research, Case Study. Research Process, Ethical considerations in research

### **Unit-II**

Research Problem- Problem Definition and Formulation, Process of Formulation of Research Problem, Sources of Identifying Research Problem, Case Study  
Research Design- Meaning and Scope, Research Design for Descriptive, Exploratory and Experimental Research, Case Study.

### **Unit-III**

Data Collection and Organization - Techniques and Methods of Data Collection, Projective Techniques Used in Qualitative Research, Processing of Data: Editing and Coding. Measurement and Scaling- Levels of Measurement-Nominal, Ordinal, Ratio and Interval Scale, Scaling Techniques,

### **Unit-IV**

Presentation of Data-Variou forms and methods of data preparation and presentation,  
Testing of Hypothesis- Procedure of Testing a Hypothesis: Z-test, t-test, F-tests (ANOVA),

### **Unit-V**

Chi-Square test, Mann-Whitney Test and Other Non- Parametric Test, Application of Data processing software (e.g. SPSS etc.) . Report writing and presentation- Meaning and Purpose of a Research Report, Types of Report, Format of Report, Essentials of a Good Report, Multivariate Analysis.

### **Recommended Books:**

1. William G. Zikmund -Business Research Methods
2. Kothari C R and Garg Gaurav- Research Methodology
3. Krishnaswami O R-Methodology of Research in Social Sciences
4. Naresh K. Malhotra & Satyabhushan Dash- Marketing Research

### **MAE- 402- Dissertation & Viva-Voce**

**Course Objective:** The objective of this course is to evaluate the project and dissertation work taken-up by students during their internship in the previous semester.

**Course Outcome:** After finishing this course, students shall be judged on the basis of their performance in the viva-voce.

### **MAE- 403- INTERNATIONAL BANKING**

**Course Objective:** To familiarize the students with the historical background, various systems, processes and global institutions involved in international banking.

**Course Outcome:** After learning this course, students shall have a good understanding of the international banking environment and prevalent systems and standards.

#### Unit ó I

**International Banking System & Operations:** Evolution of the international banking scenario. Global trends and development in International Banking - International financial centres, offshore banking units.

#### Unit ó II

**Federal Reserve System-** Origin, Organizational Structure and Working, Commercial Banking in USA, Unit Banking and Branch Banking and Factors for its Growth in USA, **New York Money Market** ó Constituents and Working, Comparison between London Money Market and New York Money Market **London Money Market** - Market Constituents working and credit Instrument- Euro Dollar.

#### Unit ó III

**European Central Bank-** Organization, Structure, Functions and Working. **Asian Development Bank-** Functions, Structure and Working.

#### Unit ó IV

**Multinational Banking** – Conceptual framework of multinational banking, international banking crisis, the regulation of international banking structure, measure of efficiency in multinational banking.

#### Unit ó V

**International Financial Institutions-** I.M.F, World Bank, IFC, BRICS- Organisation, Objectives, functions and Performance Appraisal.

### **Recommended Books:**

1. Sayers R.S. ó Modern Banking
2. Basu S.K. ó Contemporary Banking Trends.
3. Saxena K.B. ó International Banking: Banking Theory and Principal Banking Systems (Hindi)
4. Goswami V.K. ó International Banking

### **MAE- 404- Managing Personal Finance**

**Course Objective:** The objective of this course is to provide insights into finance at personal level by managing and planning it.

(w.e.f. July 2020)

**Course Outcome:** After learning this course, students shall be able to understand the importance of managing finance at personal level as well as the various concepts related to risk and return.

### **Unit- 1**

Introduction to Personal Financial Planning; individual factors affecting financial thinking; Systematic factors affecting financial thinking; Financial planning process; Career Planning

### **Unit-II**

Introduction to basic Accounting & Financial Terms; Analytical tools in organising financial data to help in process of decision making. Concept of Time Value of money; Concept of Risk & Return; Relationship between Time, Risk & Return to Value. Role of Time, Risk & Return in financial thinking and planning; evaluating choices & making financial decision.

### **Unit-III**

Common Investment options of individual investor: Investing in Stocks, Bonds, Mutual Funds, Commodities, Real Estate & Collectibles. Assessment of risk in Wealth building as a strategy of financial planning.

### **Unit-IV**

-Personal Risk Management & Insurance; Incorporating risk management into financial planning; Managing the risk of inability to earn due to illness, disability- temporary or permanent & death.

### **Unit- V**

-Personal Risk Management - Retirement Plan & Estate Planning. Planning for retirement, loss of wages; alternative income sources; Distribution of accumulated wealth after death.

### **Suggested Readings:**

Jack Kapoor, Les Dalbay, Robert J. Hughes- Personal Finance  
Bimal Jaiswal & Leena S. Shimpi- Managing Personal Finance  
Jack Kapoor-personal Finance, TMH  
Shaikh M W- Personal Finance  
Lokatia RN- Tax smart personal investment A-Z

## **MAE- 405: ECONOMETRICS: THEORY AND APPLICATION**

**Course Objective:** This course provides a comprehensive introduction to basic econometric concepts and techniques. The focus in this course is on understanding and interpreting the assumptions in the light of actual empirical applications.

**Course Outcome:** With the basics of simple and multiple regression model with assumptions with more emphasis on cross-section data. With the econometric techniques applied by researchers analysing time series and panel data.

### **Unit –I**

Definition and scope of Econometrics=Estimator and Estimation, Point and Interval Estimation=Simple and General linear Regression Model – Assumptions, Estimation (OLS) and Properties of Estimators=Gauss-Markov Theorem=

### **Unit –II**

Determining Growth Rate and Elasticity=Multiple Regression and General Linear Model Assumptions and Estimation of Parameters, R square and Adjusted R Square.

### **Unit –III**

Consequences and detection of multicollinearity, heteroskedasticity, and autocorrelation, and remedial measures.

### **Unit –IV**

Nature and features of Dummy Variable and features of dummy variables as regressors and its implications for the intercept and slope coefficients. Specification Error=Errors of Measurement.

### **Unit –V**

Basic Time Series Analysis: Concept of Stationarity, co-integration and Error-correction Model (ECM). Introduction to Panel Data Analysis: Introduction to panel data, pooled model, within and between estimators, fixed effects, random effects, Hausman test.

Recommended Books:

1. Wooldridge, J. ó Introductory Econometrics: A Modern Approach.
2. Ramanathan, R. ó Introductory Econometrics with applications.
3. Gujarati, N.D. ó Basic Econometrics, fourth edition.
4. Johnston, J. ó Econometric Methods.
5. Brooks, C. ó Introductory Econometrics for Finance.

## **MAE – 406: PUBLIC ECONOMICS**

**Course objective:** This course explores the role of the public sector in the economic life of a nation. The course attempts to explain why government intervention is needed, how it influences the behaviour of the private sector and what the welfare effects of such influences are. It also tries to capture the political economy, which regards actions of the public sector as determined by political processes. Topics covered may include welfare economics, market failures, innovation policy, and political economy.

**Course outcomes:** On successful completion of this course students will be able to: Use the basic tools, concepts and models to solve problems in key topics in Public Economics; analyse policy challenges facing regional, national and international governments around the world and learn to find solutions to these challenges, taking into account obstacles to implementation; apply economic perspectives on activities of the government sector to become well-informed, engaged participants citizens, voters, politicians and / or civil servants - in society.

### **Unit –I**

(w.e.f. July 2020)

Public expenditure ó Classification of public expenditure; Leviathan Hypothesis; Bureaucracy and growth of government; Bureaucracy and allocative efficiency model - Niskanen model; Peacock Wiseman Hypothesis. An Economic Theory of Democracy: Rent seeking and directly unproductive profit seeking activities.

### **Unit –II**

Concept of Private Goods, Public Goods and Merit Goods; Externalities and Decision Making: Negative and Positive Externalities, Coase Theorem. Tax Policy - Benefit and ability to pay approaches, Indices of ability to pay; Income and Expenditure taxes; dead weight loss and distortion; efficiency and equity considerations in taxation; Incidence of Taxation in a General Equilibrium Framework.

### **Unit –III**

Analytical aspects of fiscal policy óThe Solow-Blinder theorem; The measurement and determinants of fiscal deficits; The structural deficit; Discretionary fiscal policy changes;

### **Unit –IV**

Macroeconomic effects of fiscal adjustment in the Keynesian and Classical systems; Built-in flexibility. Social Choice Theory - Efficiency Criteria ó Pareto; Social Welfare Functions and Arrow Impossibility Theorem;

### **Unit - V**

An Introduction to Possibility and Impossibility Theorems with Quasi-Transitive and Acyclic Social Rationality; Structure of Social Decision rules with restricted domain. Salient Features of Indian Direct and Indirect Tax Structure and Recent Reforms.

### **Recommended Books:**

1. Musgrave and Musgrave – Public Finance in Theory and Practice.
2. Bhatia, H L – Public Finance
3. Atkinson, A. and Stiglitz, J. –Lectures in Public Economics.
4. Arrow Kenneth, J. – Social Choice and Individual value.
5. Bagchi, Amaresh – Readings in Taxation.
6. Browning, Edgar K. and Browning, Jacqueline, M. – Public Finance and the Price System.
7. Downs, A. – An Economics of Democracy.
8. Jha, Raghendra – Modern Public Economics, Routledge, London and New York.

### **MAE -407- ENTREPRENEURSHIP AND MSMEs**

**Course Objective:** The course aims to familiarize the students with the concepts of Entrepreneurship and with the establishment and management of a new enterprise.

**Course Outcome:** After learning this course, the students would be knowing everything about starting an enterprise, the prevalent policies for enterprises and the support available to entrepreneurs.

### **Unit-I**

Entrepreneurship-Meaning, Concept, Characteristics, Process, Motivation, Types of Entrepreneur and Concepts of Intrapreneurship, Entrepreneur v/s Intrapreneur, Entrepreneur Vs. Entrepreneurship, factors

(w.e.f. July 2020)

responsible for emergence of entrepreneurship, Entrepreneurial Barriers, Scope of Entrepreneurship in India, Innovation, Creativity and Entrepreneurship, Entrepreneurial Decision Making Under Certainly, risk and uncertainty conditions, Entrepreneurship Development Program: Needs and Objectives of EDPs

### **Unit-II**

Business Planning Process-Meaning, Preparation of Business Plan: Preliminary Investigation, Idea Generation, Environmental Scanning, Feasibility Analysis, Project Report Preparation: Essential of a Project Report, Format of Project Report, Project Appraisal, Drawing Functional Plan: Marketing Plan, Production Plan, Organizational Plan and Financial Plan.

### **Unit- III**

MSME- Definition and Characteristics, Policies and Legislations for MSME, Micro, Small and Medium Enterprises- Conceptual Framework, MSMEs Act, Small vs. Large Industries, Industrial Sickness: Concept, Symptoms, Causes, Viability Study, Rehabilitation, Amalgamation and Merger or Launching a New Venture, Role Of MSMEs with special reference to Indian Economy

### **Unit- IV**

Women Entrepreneurship: Meaning, Characteristic features, Problems of Women Entrepreneurship in India, Developing Women Entrepreneurship in India, Concept of Social Enterprise and Social Entrepreneurship, Sustainability Issues in Social Entrepreneurship, Rural Entrepreneurship, Family Business Entrepreneurship.

### **Unit- V**

Institution Supporting Entrepreneurs and MSMEs, Institution Supporting Entrepreneurs- Entrepreneurship Development Institution of India, SIDBI, KVIC, NIESBUD, UPSIDC, NSIC, NABARD, SIDO, IIE, UPSFC Various Schemes of State and Central Government for MSMEs

### **Recommended Books:**

1. Desai Vasant- Management of Small-Scale Industries
2. Vyay K Jairi- Marketing Management for Small Units
3. Lall Madhurima and Sahai, Shikha- Entrepreneurship
4. Lall Madhurima ó Entrepreneurship and MSMEs
5. Bimal Jaiswal- Fundamentals of Entrepreneurship & Project Planning

### **MAE- 408- Agriculture Economics**

**Course Objective:** The objective of the course is to acquaint the students with the concepts and principles of agricultural economics, agricultural systems, agricultural finance and marketing.

**Course Outcome:** After learning this course, the students would have good understanding of the agricultural systems, their concepts and patterns, finance and marketing related to agriculture.

### **Unit I**



Agriculture economics: Concept, nature and basic issues. Scope and Subject matter of Agricultural Economics, Nature and Utility of Agricultural Economics, principles of agricultural economics. Role and Importance of Agriculture in National Economy: share in National income, Source of livelihood, Employment, Industrial development and trade.

### **Unit II**

Changes in agrarian structure in India: Land Utilization Pattern, Patterns of Cropping in different regions, Shift in Cropping Pattern and its Implications on Food Security.

Factors responsible for agricultural development in India, Growth in use of technological factors in production such as irrigation, seed, fertilisers, capital during last seven decades.

### **Unit III**

National Resource base of Indian agriculture, India's position in World Agriculture, Comparison of India with other countries, Agricultural Growth in India during pre- and post-Independence period. Employment and Unemployment in agriculture.

### **Unit IV**

Agricultural Finance: Concepts and Scope, Importance of Agricultural Finance. Farm capital structure in Agriculture and its changes, Farm Credit in India: purposes of loans, Sources of finance. Factors determining demand for credit. Recent policy changes in regard to farm credit and their implications.

### **Unit V**

Marketing: Characteristics of primary agricultural markets in India, regulated markets and market intervention, Marketing efficiency, Marketing Channels and Functionaries. Marketing strategies and entrepreneurship ventures for distribution of agriculture products. Processing, wholesaling, retailing and food service firms, the role of transportation and storage.

Farm prices: Trends in relative prices of farm products, agricultural pricing policy in India.

### **SUGGESTED READINGS**

1. Acharya and Agarwal, 1987, Agricultural Marketing in India, Oxford & IBH Publishing Company.
2. Agricultural Research Data Book 2009, Indian Agricultural Statistics Research Institute, Pusa, New Delhi 110 012
3. Agricultural Statistics at a Glance 2010, Directorate of Economics and Statistics, Ministry of Agriculture, Government of India, New Delhi.
4. Bhalla, G. S. and Singh G., 2001, Indian Agriculture: Four Decades of Development, Sage Publications.
5. Bhalla, G.S., 2007, Indian Agriculture since Independence, National Book Trust, India.
6. Chadha, G.K.; S. Sen and H.R. Sharma, 2004, Land Resources, State of the Indian Farmer, Vol. 2, Academic Foundation, New Delhi.
7. Dantwala, M. L. and Others, 1991, Indian Agricultural Development since Independence: A Collection of Essays, Oxford & IBH Publishing Co., New Delhi.

## **MAE- 409- BANKING LAW AND PRACTICES**

**Course Objective:** The objective of the course is to familiarise the students with the various laws, rules & regulations and prevalent practices in the banking industry in India.

**Course Outcome:** After learning this course, the students would have good understanding of the banking systems, laws and practices prevalent in the Indian banking industry.

**UNIT-I:** Introduction : Origin, Definitions, Functions of banks, Classification of banks, Development and Organisational Structure of banks, Challenges for Indian banking industry. Functions / Services and Principles of commercial banks.

**UNIT-II:** RBI and Banking Regulation Act: Reserve Bank of India ó Organisation, Functions and Appraisal, Powers of the Reserve bank and Nomination of deposit accounts and lockers. Scheme of the banking regulation act, Application of the act-general provisions, management and control, loans and advances, Assets of a banking company.

**UNIT-III:** Banker and Customers Satisfaction: Meaning of banker and customer, Relationship between banker and customer, Obligations of banker, Banker's duty to maintain secrecy of the customer's account and Rights of the banker. Customers satisfaction and its practices.

**UNIT-IV:** Accounts of Customers: Various types of deposit accounts ó Opening and operation, Deposit schemes, Insurance of bank deposits and Steps for improving customer service in banks. Evaluation of customers satisfaction, Problems phased by the customers and suggestion for improvements.

**UNIT-V:** Bank Credit and Policy: Dehejia Committee Report, 1969 Tandan Committee Report, 1975 Chore Committee Report, 1980 Marathe Committee Report, 1984 Recent RBI guidelines regarding bank credit.

### **Suggested Readings:**

1. Bimal Jaiswal- Banking Operations
2. K.C. Shekher- Banking Theory and Practices
3. Taxmann- Banking Law and Practice

## **MAE- 410- Inter- Departmental Paper**