MA BUSINESS ECONOMICS PART-I SEMESTER-II (W.E.F. 2020-21)

PAPER CODE	NOMENCLATURE	No. of Credit	Teaching Scheme Hrs/Week			Examination Scheme (Marks & Time)			
			L	**T**	**P**	External Marks	Internal Assessment	Total	Time
CORE COURSES									
M-BECOC- 006	Micro Economic Analysis-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC- 007	Macro Economic Analysis-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -008	Statistics For Business Economists	4	4	½ hrs/G	2	80	20	100	3 Hrs.
M-BECOC -009	Public Economics-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -010	Practical: Statistical Software for Data Analysis and Project Work	4	-	-	6	Practical viva-voce 20	Practical File and Project 80	100	3 Hrs.
Elective Courses (Choose Any One Elective Paper)									
M-BECOE -026	Management Concepts And Organizational Behaviour-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -027	Information System And Business-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -028	Business Environment And Laws-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -029	Accounting For Business Economists-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -030	Economics of Labour-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -031	Economics of Banking-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -032	Economics of Insurance-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
OESS (*1 to 10*)	Candidate is required to take one Option Elective, other than Economics, from the Common Lists of Papers of Social Sciences (Syllabus enclosed in the end)	2	2	½ hrs/G	-	50	-	50	2 Hrs.
Total		26	22	3		600			

Note: Students are required to select any one (01) elective paper. The students will select the same corresponding papers as in Semester I. However, the number of options offered is subject to the availability of faculty.

Compulsory Credits: 20
Optional Credits: 06

PROGRAM NAME: MA BUSINESS ECONOMICS

1. ABOUT THE PROGRAM

The business organizations are facing multiple challenges of unstable geo-politics with increasing protectionism in globalization era, climate change, environmentalism, fast depleting natural resources, regional-ethnical-racial conflicts and decreasing effectiveness of economic policies at national level. The SMES and agriculture sector are finding it difficult to remain financially viable. The change in paradigms at national economic policy level and corporate strategic level is inevitable. The business economists have to be ready with new tools of analysis suitable for more cross-sectional data to provide creative solutions to local bodies, NGOs, cooperatives, and firms of varying sizes. Families at different levels of income need specific solutions to come out of poverty, to start or grow a business. The present M.A. Business Economics course has been designed to produce professionals who can help the business organizations, their associations, federations, think tanks, ministries government & departments and international forums to analyze and suggest policies. The course prepares the students by focusing on theoretical, professional, technical and interpersonal skills. Many curricular and co-curricular modules have been included to cultivate human skills including personality, communication, motivation and leadership. The gaps between economics and business management have been narrowed down. The students will be equipped to analyze the varied information being generated in the areas of business, economy and society. The course is at par with our post graduate program in economics for almost all practical purposes including teaching, research or practice.

2. PROGRAM OUTCOMES

1. KNOWLEDGE
Demonstrate knowledge of historical emergence, questions asked, and distinctive contributions of the social science disciplines to the analysis of human behavior and social issues.

2. PROBLEM SOLVING
Visualize, conceptualize, articulate, and solve complex problems through experimentation and observation using theoretical framework of social science disciplines.

3. CRITICAL THINKING
Critically analyze everyday problems faced by the society, evaluate specific policy proposals, compare arguments with different conclusions to a specific societal issue, and assess the role played by assumptions in such arguments.

4. SCIENTIFIC ENQUIRY
Develop the capability of defining problems, formulate hypothesis, collect relevant data, develop empirical evidence and interpret the results of such analyses.

5. USAGE OF ANALYTICAL TOOLS
Develop the ability to apply appropriate quantitative/qualitative techniques used in social science disciplines along with ICT, softwares etc.

6. SPECIALIZATION AND EMPLOYBILITY
Develop deeper understanding, creativity, originality, analytical and critical skills in chosen specialized areas of social science disciplines leading to employability.

7. INTERDISCIPLINARY KNOWLEDGE & ADAPTATION
Enhance the ability to integrate as well as synthesize the acquired knowledge within the social sciences and beyond.

8. SELF DIRECTED LEARNING
Develop the ability to work independently as well as effectively in the changing environment.

9. ETHICS
Articulate and apply ethics, values and ideals that demonstrate awareness of current societal challenges.

10. LEADERSHIP
Build skills to work as part of a team and lead others, setting directions and formulating inspiring vision.

11. COMMUNICATION
Communicate conclusions, interpretations and implications clearly, concisely and effectively, both orally and in writing for different types of audiences.

12. PROJECT MANAGEMENT
Use investigative skills necessary for conducting disciplinary- appropriate projects/ research documents/term papers etc.

3. PROGRAM SPECIFIC OUTCOMES (PSOs)

After completing the M.A. Business Economics program, the students will be able to:

PSO1: Develop the powers of inquiry, critical analysis, logical thinking, and ability to apply theoretically derived knowledge of economics to current business policy issues.

PSO2: Learn and apply alternative statistical, mathematical and econometric tools to address policy issues related to competition, growth, fiscal matters, business environment, financial markets, labour, agriculture, population, tax planning, trade and welfare in India.

PSO3: Develop and demonstrate fundamental in-depth knowledge and understanding of the theories, postulates, methods, principles, concepts, values, substantive rules of core as well as applied areas of Business Economics.

PSO4: Identify, coherently explain and synthesize core and advanced business and economic concepts including business/economic models to analyze the choices made by consumers, investors, firms, and governments.

4. Duration, Credits and Evaluation Scheme for M.A. Business Economics w.e.f 2020-21

a. The M.A. Business Economics Course has been divided into 4 Semesters spread over 2 years.

b. Every Student of M.A. Business Economics Course has to pass 92 Credits (64 Core Courses Credits + 24 Elective Courses Credits + 2 Credits in Semester-II and 2 Credits in Semester-III from optional Paper offered by other Departments of the Faculty of Social Sciences) as described under:

CORE CREDITS	66	Semester I = 18
		Semester II = 20
		Semester III = 14
		Semester IV = 14
ELECTIVE COURSE CREDITS	24	Semester I = 04
		Semester II = 04
		Semester III = 08
		Semester IV = 08
OESS CREDITS	04	Semester II = 02
		Semester III = 02
TOTAL	**94**	**94**

c. **Maximum Marks of a Course :**   **100 Marks**
   External: **80 Marks**
   Internal Assessment: -   **20 Marks (Division of Marks as given below)**

One Test/Seminar/Assignment (For each Paper)	: 50%
One Test/Seminar/Assignment (For each Paper)	: 25%
Attendance	: 25%

Marks of attendance will be given as under:

(1) 91% onwards: 5Marks (2) 81% to 90%   :4Marks(3) 75% to 80%: 3Marks   (4) 70% to 74%   :2*Marks
        (5) 65% to 69%: 1*Marks

* For students engaged in co-curricular activities of the University only/ authenticated medical grounds duly approved by the concerned Chairperson.

5. Dissertation

a. **Dissertation** is an optional paper in 4th semester and will be allocated to students who had opted for the Course on "Research Methodology" in their 3rd Semester.

b. **Topic** for the Dissertation can either be selected by the Student or suggested by the Faculty on the issues related to: Specialization Elective Course or Core Courses or latest developments, or current issues in Economics at the beginning of the Third Semester.

c. **Submission of Dissertation** by the Students to the Department shall either be before the end of the Fourth Semester [i.e., on or before the last working day of the Semester].

d. **Dissertation weightage**

Internal Assessment (based on the presentation by the candidate)	20 Marks
External evaluation	50 Marks
Viva-voce	30 Marks

6. Course Outcomes and Mapping Matrix

1. Each paper of the M.A. Business Economics Course results in four Course/Learning Outcomes (COs) which are broadly mapped or associated with POs as well as PSOs.
2. Mapping is a process of representing the correlation between COs and POs, COs and PSOs in the scale of 1 to 3 as follows (Table 1):

Table 1: Scale of mapping between COs and POs

Scale 1	If the contents of course have low correlation (i.e. in agreement with the particular PO to a small extent) with the particular Programme outcome
Scale 2	If the contents of course have medium correlation (i.e. in agreement with the particular PO to a reasonable extent) with the particular Programme outcome
Scale 3	If the contents of course have strong correlation (i.e. in agreement with the particular PO to a large extent) with the particular Programme outcome

Same scale may be used to define the correlation between COs and PSOs

7. Revised Scheme of Examination and Syllabi of MA Business Economics under CBCS/LOCF w.e.f 2020-21 in phased manner for the regular students of Department of Economics, KUK.

MA BUSINESS ECONOMICS PART-I SEMESTER-I (W.E.F. 2020-21)

PAPER CODE	NOMENCLATURE	No. of Credit	Teaching Scheme Hrs/Week			Examination Scheme (Marks & Time)			
			L	T	P	External Marks	Internal Assessment	Total	Time
CORE COURSES									
M-BECOC- 001	Micro Economic Analysis-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC- 002	Macro Economic Analysis-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -003	Mathematics for Business Economists	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -004	Public Economics-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -005	Seminar	2	-	½ hrs/G	2	-	50	50	------
ELECTIVE COURSES (Choose any one elective paper)									
M-BECOE -019	Management Concepts And Organizational Behaviour-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-020	Information System And Business-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -021	Business Environment And Laws-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -022	Accounting For Business Economists-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE- 023	Economics of Labour-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -024	Economics of Banking-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -025	Economics of Insurance-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Total		22						550	

Note: Students are required to select any one elective paper. The students will select the same corresponding paper in Semester II. However, the number of options offered is subject to the availability of faculty.
Compulsory Credits: 18
Optional Credits: 04

MA BUSINESS ECONOMICS PART-I SEMESTER-II (W.E.F. 2020-21)

PAPER CODE	NOMENCLATURE	No. of Credit	Teaching Scheme Hrs/Week			Examination Scheme (Marks & Time)			
			L	**T**	**P**	External Marks	Internal Assessment	Total	Time
CORE COURSES									
M-BECOC- 006	Micro Economic Analysis-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC- 007	Macro Economic Analysis-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -008	Statistics For Business Economists	4	4	½ hrs/G	2	60 20	20	100	3 Hrs.
M-BECOC -009	Public Economics-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -010	Practical: Statistical Software for Data Analysis and Project Work	4	-	-	6	Practical viva-voce 20	Practical File and Project 80	100	3 Hrs.
Elective Courses (Choose Any One Elective Paper)									
M-BECOE -026	Management Concepts And Organizational Behaviour-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -027	Information System And Business-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -028	Business Environment And Laws-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -029	Accounting For Business Economists-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -030	Economics of Labour-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -031	Economics of Banking-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -032	Economics of Insurance-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
OESS (*1 to 10*)	Candidate is required to take one Option Elective, other than Economics, from the Common Lists of Papers of Social Sciences (Syllabus enclosed in the end)	2	2	½ hrs/G	-	50	-	50	2 Hrs.
Total		26	22	3		600			

Note: Students are required to select any one (01) elective paper. The students will select the same corresponding papers as in Semester I. However, the number of options offered is subject to the availability of faculty.

Compulsory Credits: 20
Optional Credits: 06

MA BUSINESS ECONOMICS PART-II SEMESTER-III (W.E.F. 2021-22)

PAPER CODE	NOMENCLATURE	No. of Credit	Teaching Scheme Hrs/Week			Examination Scheme (Marks & Time)			
			L	**T**	**P**	External Marks	Internal Assessment	Total	Time
CORE COURSES									
M-BECOC -011	International Trade And Finance-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -012	Indian Economic Policy-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -013	Economics of Growth and Development-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -014	Seminar	2		½ hrs/G	-	-	50	50	-----
Elective Courses- Choose Any One of the Following Elective Groups									
Group-I Quantitative Economics									
M-BECOE -033	Econometrics-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -034	Mathematical Economics-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-II Financial Economics									
M-BECOE -035	Economics of Corporate Finance-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -036	Investment and Portfolio Analysis	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-III Resources Economics									
M-BECOE -037	Economics of Environment & Social Sector-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -038	Demography-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-IV Sectoral Economics									
M-BECOE -039	Agriculture Economics-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -040	Industrial Economics-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-V Economics of Taxation									
M-BECOE -041	Direct Taxes-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -042	Theory of Taxation	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-VI Data Analytics									
M-BECOE -043	Business Research Methods	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -044	Data Analytical Techniques-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
OESS*(11 to 20)*	Same Note as in Sem. II	2	2	½ hrs/G	-	50	-	50	2 Hrs.
Total		24	20	3		600			

Note: Students are required to select any one group of two (02) elective papers. The students will select the same corresponding papers in Semester IV. However, the number of options offered is subject to the availability of faculty.

Compulsory Credits: 14
Optional Credits: 10

MA BUSINESS ECONOMICS PART-II SEMESTER-IV (W.E.F. 2021-22)

PAPER CODE	NOMENCLATURE	No. of Credit	Teaching Scheme Hrs/Week			Examination Scheme (Marks & Time)			
			L	T	P	External Marks	Internal Assessment	Total	Time
CORE COURSES									
M-BECOC-015	International Trade and Finance-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC-016	Indian Economic Policy-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC-017	Economics Of Growth And Development-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC-018	Comprehensive Viva Voce	2	-	½ hrs/G	2	50	-	50	-------
Elective Courses : Choose Any One Of The Following Elective Groups									
Group-I Quantitative Economics									
M-BECOE-045	Econometrics-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-046	Mathematical Economics-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-II Financial Economics									
M-BECOE-047	Economics of Corporate Finance-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-048	Financial Derivatives	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-III Resources Economics									
M-BECOE-049	Economics of Environment & Social Sector-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-050	Demography-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-IV Sectoral Economics									
M-BECOE-051	Agriculture Economics-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-052	Industrial Economics-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-V Economics Of Taxation									
M-BECOE-053	Direct Taxes-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-054	Corporate Tax Planning	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-VI Data Analytics									
M-BECOE-055	Dissertation	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-056	Data Analytical Techniques-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Total		22	20	3	2	550			

Note: Students are required to select any one group of two (02) elective papers. The students will select the same corresponding papers as in Semester III. However, the number of options offered is subject to the availability of faculty.

Compulsory Credits: 14
Optional Credits: 08

DETAILED SYLLABI AND MAPPING MATRIX

MA BUSINESS ECONOMICS PART-I SEMESTER-I (W.E.F. 2020-21)

PAPER CODE	NOMENCLATURE	No. of Credit	Teaching Scheme Hrs/Week			Examination Scheme (Marks & Time)			
			L	**T**	**P**	External Marks	Internal Assessment	Total	Time
CORE COURSES									
M-BECOC- 001	Micro Economic Analysis-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC- 002	Macro Economic Analysis-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -003	Mathematics for Business Economists	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -004	Public Economics-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -005	Seminar	2	-	½ hrs/G	2	-	50	50	------
ELECTIVE COURSES (Choose any one elective paper)									
M-BECOE -019	Management Concepts And Organizational Behaviour-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-020	Information System And Business-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -021	Business Environment And Laws-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -022	Accounting For Business Economists-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE- 023	Economics of Labour-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -024	Economics of Banking-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -025	Economics of Insurance-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Total		22				550			

Note: Students are required to select any one elective paper. The students will select the same corresponding paper in Semester II. However, the number of options offered is subject to the availability of faculty.

Compulsory Credits: 18
Optional Credits: 04

M.A. Business Economics 1st Semester **Paper- M-BECOC-001 (Compulsory)** **MICRO ECONOMIC ANALYSIS-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

    II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

    III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOC-001.1	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 analyze economic problems.
M-BECOC-001.2	Understanding 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 analyze economic problems.
M-BECOC-001.3	Analyze 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.
M-BECOC-001.4	Exhibit the ability to learn and apply relevant optimization techniques for analysis of microeconomic Behaviour of consumer, producer and firm. Simultaneously Understanding the implications and ethical as well as value part of it.

Unit-I

Theory of Demand and Consumer Behaviour

Indifference curve approach and its applications(The leisure-income trade-off, Evaluation of alternative government policies, IC and theory of exchange); Price, Income and Substitution effects (Hicks and Slutsky); Revealed Preference Theory; The Consumer's Surplus (Marshall and Hicks) and its applications; Elasticity of demand (theoretical aspects and empirical estimation) and Elasticity of Supply; Revision of Demand theory by Hicks; Linear Expenditure System.

Reading List

- 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, J.M. & Quandt, R.E. (1980).*Microeconomic Theory: A Mathematical Approach.*McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1979). *Modern Microeconomics (2nd Edition).*Macmillan Press, London.
- Salvatore, D.(2009). *Microeconomics-Theory and Applications.*Oxford University Press.

Unit-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– traditional and modern; Analysis of economies of scale.

Reading List

- 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.
- Koutsoyiannis, A. (1979).*Modern Microeconomics (2nd Edition)*. Macmillan Press, London.

● Varian, H.(2003).*Intermediate Microeconomics*. East-West Press.

Unit-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.

Reading List
● Archibald, G.C. (Ed.) (1971).*Theory of the Firm*. Penguin, Harmondsworth.
● Koutsoyiannis, A. (1979).*Modern Microeconomics (2nd Edition)*. Macmillan Press, London.
● Varian, H. (2003).*Intermediate Microeconomics*. East-West Press.

Unit-IV

Non-collusive models-

Cournot; Bertrand; Stackleberg; 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).

Reading List
● Koutsoyiannis, A. (1979). *Modern Microeconomics (2nd Edition)*. Macmillan Press, London.
● Pindyck R. & Rubinfeld, D. (2018). *Microeconomics (9th Edition)*. Pearson.
● Varian, H. (2003). *Intermediate Microeconomics*. East-West Press.

Mapping Matrix of Course M-BECOC-001
Table 1: CO-PO Matrix for the Course M-BECOC-001

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-001.1	3	3	3	2	2	2	2	3	2	2	3	2
M-BECOC-001.2	3	3	3	2	2	2	2	3	2	2	3	2
M-BECOC-001.3	3	3	3	2	2	2	2	3	2	2	3	2
M-BECOC-001.4	3	3	3	3	3	3	2	3	3	2	3	3
AVERAGE	**3**	**3**	**3**	**2.25**	**2.25**	**2.25**	**2**	**3**	**2.25**	**2**	**3**	**2.25**

Table 2: CO-PSO Matrix for the Course M-BECOC-001

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-001.1	3	2	3	3
M-BECOC-001.2	3	2	3	3
M-BECOC-001.3	3	2	3	3
M-BECOC-001.4	3	3	2	3
AVERAGE	**3**	**2.25**	**2.75**	**3**

M.A. Business Economics 1st Semester **Paper- M-BECOC-002 (Compulsory)** **MACRO ECONOMIC ANALYSIS-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter
   I] Nine Questions will be set in all and students will be required to attempt 5 questions.
  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
  III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOC-002.1	The student shall understand the classical and Keynesian theory of output and employment.
M-BECOC-002.2	Explaining the behaviour of macroeconomic variables by identifying and understanding the extended model.
M-BECOC-002.3	Understanding the IS-LM framework and its various aspects.
M-BECOC-002.4	To understand the theories of consumption and investment and their relevance.

Unit-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.

Reading List
- Mankiw, Gregory N. (2003). *Macroeconomics*. Worth Publishers.
- Romer, David (2012). *Advanced Macroeconomics*. McGraw Hill Education.
- Shapiro, E. (2006). *Macroeconomic Analysis*. Galgotia Publication, New Delhi.

Unit-II

Theory of Output and Employment Determination
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.

Reading List
- Mankiw, Gregory N. (2014). *Principles of Macroeconomics*. Cengage Learning.
- Romer, David (2012). *Advanced Macroeconomics*. McGraw Hill Education.
- Shapiro, E. (2006). *Macroeconomic Analysis*, Galgotia Publication, New Delhi.

Unit-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.

Reading List
- Shapiro, E. (2006). *Macroeconomic Analysis*. Galgotia Publication, New Delhi
- Langdana, F.K. (2013). *Macroeconomic Policy: Demystifying Monetary and Fiscal Policy.* Springer.
- Mankiw, Gregory N. (2014). *Principles of Macroeconomics*. Cengage Learning.
- Mishkin, F.S. (2016). *The Economics of Money Banking and Financial Markets.* Pearson.

Unit-IV

Theories of consumption

The Absolute Income Hypothesis; The Relative Income Hypothesis; The Permanent Income Theory of Consumption; The Life cycle theory of consumption.

Theories of Investment

The Marginal Efficiency of Capital Approach; The accelerator theory; Profits Theory; Jorgenson's Neoclassical Model; Adjustment costs and q theory.

Reading List

- Levacic, Rosalind & Rebmann, Alexander (2015). *Macroeconomics.* Macmillan, London.
- Mankiw, Gregory N. (2014). *Principles of Macroeconomics*. Cengage Learning.
- Romer, David (2012). *Advanced Macroeconomics*. McGraw Hill Education.
- Shapiro, E. (2006). *Macroeconomic Analysis*, Galgotia Publication, New Delhi.

Mapping Matrix of Course M-BECOC-002
Table 1: CO-PO Matrix for the Course M-BECOC-002

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-002.1	2	2	2	3	3	2	-	2	2	-	2	2
M-BECOC-002.2	3	2	3	2	3	2	-	2	2	-	2	2
M-BECOC-002.3	3	3	3	3	2	2	-	3	2	-	2	2
M-BECOC-002.4	3	3	3	3	2	2	-	3	2	-	2	2
AVERAGE	2.75	2.50	2.75	2.75	2.50	2.00	-	2.50	2	-	2.00	2.00

Table 2: CO-PSO Matrix for the Course M-BECOC-002

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-002.1	2	2	3	2
M-BECOC-002.2	3	2	3	3
M-BECOC-002.3	3	2	3	3
M-BECOC-002.4	3	2	3	3
AVERAGE	2.75	2	3.00	2.75

M.A. Business Economics 1st Semester **Paper- M-BECOC-003 (Compulsory)** **MATHEMATICS FOR BUSINESS ECONOMISTS**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter
   I] Nine Questions will be set in all and students will be required to attempt 5 questions.
  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
 III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOC-003.1	Understand the various rules of matrix algebra and thus, become able to solve the models containing system of simultaneous equations. Moreover, know to construct the input-output model and to find its solution. Thus become able to deal with input-output based relationships among sectors or economic units.
M-BECOC-003.2	Appreciate the techniques of differential calculus and become able to compute elasticity and rate of change (marginals) for any variable. Further, ability to determine optimizing behavior of various economic agents including consumers, investors, firms, and governments. And thus, understand the mathematical derivations of theories and substantive rules of core as well as applied areas of Economics.
M-BECOC-003.3	Know to compute the consumer's surplus and producer's surplus by utilizing the tool of integral calculus. Besides, understand the concept and procedure of difference equation and thus, able to deal with models of trade cycle, economic growth and lagged market equilibrium via logical thinking. Moreover, know to estimate, interpret and forecasts the time path of various economic variables.
M-BECOC-003.4	Understand the techniques of linear programming as well as game theory and attain ability to analyze the optimum behavior of consumers, investors, firms, and governments.

Unit-I

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.

Reading List
- Allen, R.G.D. (1974). *Mathematical Analysis for Economists*. Macmillan Press, London.
- Black, J. & Bradley, J.F. (1973). *Essential Mathematics for Economists*. John Wiley and Sons.
- 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.
- Miller, R.E. & Blair, P.D. (1985). *Input-Output Analysis: Foundations and Extensions*. Prentice-Hall, Englewood Cliffs, New Jersey.

Unit-II

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.

Reading List
- Aggarwal, D. R. (2018). *Quantitative Methods*. Vrinda Publications.
- Chiang, A.C. (2005). *Fundamental Methods of Mathematical Economics*. McGraw Hill, New York.
- Mouhammed, Adil H. (2004). *Quantitative Methods for Business and Economics*. PHI, New Delhi.

- Yamane T. (1973). *Mathematics for Economists*. PHI.

Unit-III
Introductory 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.

Reading List
- Mehta, B. C. & Madnani, G. M. K. (2018). *Mathematics for Economists*. Sultan Chand & Sons, New Delhi.
- Mouhammed, Adil H. (2004). *Quantitative Methods for Business and Economics*. PHI, New Delhi.

Unit-IV
Linear Programming and Game Theory
Linear programming – Basic concept, Nature of feasible, basic and optimal solution; Solution of linear programming problem through graphical and simplex method.
Concept of a game; Two-person Zero-sum game; value of a game; strategies- simple and mixed; Dominance rule; Solution of a game by linear programming.

Reading List
- Aggarwal, D. R. (2018). *Quantitative Methods.* Vrinda Publications.
- Mehta, B. C. & Madnani, G. M. K. (2018). *Mathematics for Economists*. Sultan Chand & Sons, New Delhi.
- Taha, Hamdy A. (2001). *Operations Research: An Introduction*. Pearson Education.
- Vohra, N.D. (2008). *Quantitative Techniques in Management*. Tata McGraw Hill.

Mapping Matrix of Course M-BECOC-003
Table 1: CO-PO Matrix for the Course M-BECOC-003

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-ECOC-003.1	3	3	3	2	3	3	2	3	-	-	2	3
M-ECOC-003.2	3	3	3	2	3	3	2	3	-	-	2	3
M-ECOC-003.3	3	3	3	3	3	3	2	3	-	-	2	3
M-ECOC-003.4	3	3	3	2	3	3	2	3	-	-	2	3
AVERAGE	**3**	**3**	**3**	**2.25**	**3**	**3**	**2**	**3**	-	-	**2**	**3**

Table 2: CO-PSO Matrix for the Course M-BECOC-003

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-003.1	3	3	2	3
M-BECOC-003.2	3	3	2	3
M-BECOC-003.3	3	3	2	3
M-BECOC-003.4	3	3	3	3
AVERAGE	**2.6**	**2.8**	**2.4**	**3.2**

M.A. Business Economics 1st Semester **Paper- M-BECOC-004 (Compulsory)** **PUBLIC ECONOMICS-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

  III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOC-004.1	Understand, explain and apply the concept of efficiency along with various solutions of market failure.
M-BECOC-004.2	Comprehend and present the efficiency and welfare distribution aspects in context of public goods besides understanding the preference revelation mechanisms.
M-BECOC-004.3	Understand the economic implications of various taxes along with their critical analysis thereby attain in-depth knowledge of theories and postulates based on taxation.
M-BECOC-004.4	Development of critical thinking regarding normative aspects of taxation and thus become able to design an efficient and equitable taxation system.

Unit-I

The Public Economy

Exchange Economy, Production Economy and Efficiency; Asymmetric Information and market Failure; The Problem of Externalities – Negotiation, Permit trading, Common property Resources, The Coase Theorem; Rent Seeking Costs and Political process.

Reading List

- Akerlof, G. (1970). The Market for `Lemons': Quality Uncertainty and the Market Mechanism. *Quarterly Journal of Economics*, 84(3), 488-500.
- Ayres, I. & Levitt, Steven D. (1998). Measuring Positive Externalities from Unobservable Victim Precaution: An Empirical Analysis of Lojack. *Quarterly Journal of Economics*, 113(1), 43-77.
- Coase, R. (1960). The Problem of Social Cost. *Journal of Law and Economics*, 3, 1-44.
- Hillman, A. L. (2009). *Public Finance and Public Policy.* Cambridge University Press.
- Leach, John (2004). *A Course in Public Economics.* Cambridge University Press.
- Metcalf, G. (2009). Market-Based Policy Options to Control U.S. Greenhouse Gas Emissions. *Journal of Economic Perspectives*, 23(2), 5-27.

Unit-II

Public Goods

Efficient Provision of Public Goods; Private provision of Pure Public Goods; Bowen Model, Lindahl Model; Samuelson Model; Nash equilibrium Approach; Clarke Mechanism, Groves- Ledyard Mechanism; Lindahl - Wicksell Mechanism; Theory of Club Goods.

Reading List

- Andreoni, J. (1993). An Experimental Test of the Public Goods Crowding-Out Hypothesis. *American Economic Review*, 83(5), 1317-1327.
- Bergstrom, T., Blume, L. & Varian, H. (1986). On the Private Provision of Public Goods. *Journal of Public Economics*, 29, 25-49.
- Clarke, E.H. (1971). Multipart Pricing of Public Goods. *Public Choice*, 11, Rand McNally
- Foley, D.K. (1970). Lindahl's solution and the core of an economy with public goods. *Econometrica*, 38(1), 66-72.
- Samuelson, P. (1954). The Pure Theory of Public Expenditure. *Review of Economics and Statistics*, 36(4), 387-389.

Unit-III

Public Revenue-I

Incentive Effects of Taxation on Labour Supply, Savings, Risk Taking and Investment; Other Distorting Effects of the Tax System; Tax Incidence – Partial and General equilibrium Analysis; Dynamic Tax Incidence.

Reading List

- Blundell, R. and MaCurdy, T. (1999). *Labor supply: a review of alternative approaches*, In Ashenfelter, O., and Card, D. (Eds.), Handbook of Labor Economics, vol. 3A, chap. 27, Elsevier.
- Boadway, R. (1984). *Public Sector Economics. Cambridge Winthrop Publishers.*
- Harberger, A. (1962). The Incidence of the Corporation Income Tax. *Journal of Political Economy*, 70, 215-240.
- Ihori, Toshihiro (2016). *Principles of Public Finance*. Springer.
- Jha, Raghbendra (1998). *Modern Public Economics*. Routledge.

Unit-IV

Public Revenue-II

Normative Analysis of Taxation – Income v/s Excise Tax; Optimal Commodity Tax- The Ramsey Rule, The Corlett and Hague Rule; Optimal Income Tax; Excess Burden of Tax and its Measurement; Tax Evasion and the Black Economy; Corporation tax and its Effects on Corporate Decisions.

Reading List

- Alm, James (2012). Measuring, explaining, and controlling tax evasion: lessons from theory, experiments, and field studies.*International Tax and Public Finance*, 19(1), 54–77.
- Auerbach, A. (2002).*Taxation and Corporate Financial Policy*, In Auerbach, A. and Feldstein, M. (eds), Handbook of Public Economics, vol. 3, chap. 19, Elsevier.
- Boadway, R. (1984). *Public Sector Economics. Cambridge Winthrop Publishers.*
- Cullis, John & Jones, Philip (2009). *Public Finance and Public Choice: Analytical Perspectives*. Oxford University Press.
- Diamond, P. (1975). A Many-Person Ramsey Tax Rule.*Journal of Public Economics*, 4(4), 335-342.
- Mirrlees J. (1971). An Exploration in the Theory of Optimum Income Taxation.*Review of Economic Studies*, 38(2), 175-208.

Mapping Matrix of Course M-BECOC-004
Table 1: CO-PO Matrix for the Course M-BECOC-004

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M- BECOC-004.1	3	3	3	3	2	2	3	-	3	-	3	-
M- BECOC-004.2	3	3	3	2	2	2	3	-	3	-	3	-
M- BECOC-004.3	3	3	3	2	2	2	3	-	3	-	2	-
M- BECOC-004.4	3	3	3	3	2	2	3	-	3	-	2	-
AVERAGE	**3**	**3**	**3**	**2.5**	**2**	**2**	**3**	**-**	**3**	**-**	**2.5**	**-**

Table 2: CO-PSO Matrix for the Course M-BECOC-004

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-004.1	3	3	3	3
M- BECOC-004.2	3	3	3	3
M- BECOC-004.3	2	3	3	2
M- BECOC-004.4	2	2	3	2
AVERAGE	**2.5**	**2.6**	**3**	**2.5**

M.A. Business Economics 1st Semester **Paper- M-BECOE-019 (Elective)** **MANAGEMENT CONCEPTS AND ORGANIZATIONAL BEHAVIOUR-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

 III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-019.1	Understand, explain and apply the concept of management along with various schools of management.
M-BECOE-019.2	Comprehend and present the principles of planning, its techniques and methods.
M- BECOE-019.3	Understand the principles of organizing and types of organizations.
M- BECOE-019.4	Learning the process of decision making, its techniques in complex and uncertain environments.

Unit-I

Evolution of Management Concepts

Concept of Management; Functions and Responsibilities of Managers; Contribution of Management Thinkers: Taylor, Fayol, Elton Mayo; Different schools of management thought: Behavioural, Scientific, Systems, and Contingency; Case Studies.

Reading List

- Koontz , H., Weihrich, H. & Cannice, Mark V. (2020). Essentials of Management: An International, Innovative and Leadership Perspective. McGraw Hill Education (India) Private Limited, Chennai.
- Sudha, G.S. (2003). *Management Concepts and Organisational Behaviour*. RBSA Publishers.

Unit-II

Fundamentals of Planning

Planning: Nature and Purpose of Planning, The Planning Process, Principles of Planning, Types of Planning; Management by Objectives (MBO); Benefits and Weaknesses of MBO; Case Studies.

Reading List

- Bose, D. Chandra (2012). *Principles of Management and Administration*. PHI Learning Private Limited, Delhi.
- Deming, W. Edwards (1994). *Out of the Crisis*. The MIT Press.
- Gagne, Nana Okura (2017). Correcting Capitalism: Changing Metrics and Meanings of Work among Japanese Employees. *Journal of Contemporary Asia*. 48 (1), 67–87.
- Hindle, Tim (2008). *Guide to Management Ideas and Gurus*. New York: Bloomberg Press.
- LaFollette, William R. & Fleming, Richard J. (1977). The Historical Antecedents of Management by Objectives. *Academy of Management Proceedings*. 1977 (1), 2–5.
- Mio, C., Venturelli, A. & Leopizzi, R. (2015). Management by objectives and corporate social responsibility disclosure: First results from Italy. *Acc Auditing Accountability J.*, 28 (3): 325–364.

Unit-III

Organizing and Staffing

Organizing: Nature and Purpose of Organizing, Bases of Departmentation, Span of Management, Determinants of Span of Management, Line and Staff Relationship, Line-Staff Conflict, Bases of Delegation, Methods of Decentralization; Staffing : Concept, Nature, Importance, Steps; Concept of knowledge worker; Case Studies.

Reading List
- Bose, D. Chandra (2012). *Principles of Management and Administration*. PHI Learning Private Limited, Delhi.
- Coase, Ronald (1937). The Nature of the Firm. *Economica*, 4(16), 386–405.
- Handy, Charles (1990). *Inside Organizations: 21 Ideas for Managers*. London: BBC Books.
- Handy, Charles (2005). *Understanding Organizations*. London: Penguin Books.
- Hewlett, R. (2006). *The Cognitive leader*. Rowman & Littlefield Pub Inc.

Unit-IV

Decision Making and Controlling

Decision making: Concept, Nature, Importance, and Process; Types of decision; Problems in decision making; Controlling: Concept, Nature, Importance, Process of controlling, Control Techniques; Case Studies.

Reading List
- 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.
- Frensch, Peter A. & Funke, Joachim (Eds.). (1995). *Complex problem solving: the European perspective*. Hillsdale, NJ: Lawrence Erlbaum Associates.
- Herbert, Alexander Simon (1977). *The New Science of Management Decision*. Prentice-Hall.
- Kahneman, Daniel & Tversky, Amos, (Eds.). (2000). *Choices, values, and frames*. New York; Cambridge, UK: Russell Sage Foundation; Cambridge University Press.

Mapping Matrix of Course M-BECOE-019
Table 1: CO-PO Matrix for the Course M-BECOE-019

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M- BECOE-019.1	3	3	3	3	2	2	3	3	3	3	3	2
M- BECOE-019.2	3	3	3	2	2	2	3	3	3	3	3	2
M- BECOE-019.3	3	3	3	2	2	2	3	3	3	3	2	2
M- BECOE-019.4	3	3	3	3	2	2	3	3	3	3	2	2
AVERAGE	**3**	**3**	**3**	**2.5**	**2**	**2**	**3**	3	**3**	3	**2.5**	2

Table 2: CO-PSO Matrix for the Course M-BECOE-019

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-019.1	3	3	3	3
M- BECOE-019.2	3	3	3	3
M- BECOE-019.3	2	3	3	2
M- BECOE-019.4	2	2	3	2
AVERAGE	**2.5**	**2.6**	**3**	**2.5**

M.A. Business Economics 1st Semester **Paper- M-BECOE-020 (Elective)** **INFORMATION SYSTEM AND BUSINESS-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter
    I] Nine Questions will be set in all and students will be required to attempt 5 questions.
   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
  III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-020.1	Understand, conceptualize and present the various aspects of management information system and attaining ability to make comparative analysis of different models of decision making, thus, become able to take appropriate decisions with ethical values in business and related activities.
M-BECOE-020.2	Articulate the conceptual framework of information technology along with the services based on it. Thus, become able to apply this conceptual knowledge with ethical values in any sector.
M- BECOE-020.3	Attain in-depth knowledge of data base management systems along with latest developments in it. Besides, comprehend and able to present as well as apply the approaches of systems analysis and design and system building.
M- BECOE-020.4	Able to visualize the working and applications of decision support systems, executive information systems, executive support systems and expert systems.

Unit-I

Introduction to Management Information System
Management Information Systems: Need and Objectives; Contemporary Approaches to MIS; Information as a strategic resource; Information, Management and Decision Making; Models of Decision Making: Classical, Administrative and Herbert Simon's Models; Types of information.

Reading List
- Bourgeois, David T. (2014). *Information Systems for Business and Beyond*. The Saylo Academy.
- Boykin, George (2017-09-26). "The History of Management Information Systems". bizfluent. Retrieved 2018-04-26.
- Joshi, Girdhar (2013). Management Information Systems. New Delhi: Oxford University Press.
- Laudon, Kenneth C. & Laudon, Jane P. (2009). *Management Information Systems: Managing the Digital Firm*. Prentice Hall.
- Lucey, Terry & Lucey, Terence (2004). *Management Information Systems*. Cengage Learning EMEA.

Unit-II

Topics in Information Technology
Information Technology: Definition, IT Capabilities and their organizational impact; Telecommunication and Networks: Types and Topologies of Networks; IT enabled services such as Call Centers; Geographical Information Systems etc.

Reading List
- Gleick, James (2011). *The Information: A History, A Theory, A Flood*. New York: Pantheon Books.
- Butler, Jeremy G. (2012). *A History of Information Technology and Systems*. University of Arizona.
- Leavitt, Harold J. & Whisler, Thomas L. (1958). Management in the 1980s. *Harvard Business Review*,11, 1-8.
- Khurshudov, Andrei (2001). *The Essential Guide to Computer Data Storage: From Floppy to DVD*. Prentice Hall.

Unit-III

Evolution of Data Base Management Systems

Data Base Management Systems: Data Warehousing and Data Mining; Current Developments in Databases; Systems Analysis and Design: Systems Development Life Cycle: Alternative System Building Approaches - Prototyping - Rapid Development Tools.

Reading List

- Gray, J. and Reuter, A. (1992). *Transaction Processing: Concepts and Techniques*. Morgan Kaufmann Publishers.
- Kroenke, David M. & Auer, David J. (2007). *Database Concepts*. New York: Prentice.
- Lightstone, S., Teorey, T. & Nadeau, T. (2007). *Physical Database Design: the database professional's guide to exploiting indexes, views, storage, and more.* Morgan Kaufmann Press.
- Panneerselvam, R. (2018). *Database Management Systems*. PHI Learning Private Limited, Delhi.
- Ramakrishnan, R. & Gehrke,J. (2003). *Database Management Systems*. McGraw Hill Education.
- Teorey, T., Lightstone, S. & Nadeau, T. (2005). *Database Modeling & Design: Logical Design*. Morgan Kaufmann Press.

Unit-IV

Introduction to Decision Support Systems

Decision Support Systems; Executive Information Systems; Executive Support Systems; Expert Systems and Knowledge Based Expert Systems; Artificial Intelligence.

Reading List

- Janakiraman, V.S. & Sarukesi, K. (2006). *Decision Support Systems*. PHI Learning Private Limited, Delhi.
- Rajaraman, V. (2018). *Analysis and Design of Information Systems*. PHI Learning Private Limited, Delhi.
- Schulthesis, R. & Sumner, M. (2008). *Management Information Systems: The Manager's View*. Tata McGraw Hill Publishing Company Limited, New Delhi.
- Turban, E. & Aronson, J.E. (1998). *Decision Support Systems and Intelligent Systems*. Pearson Education Asia.

Mapping Matrix of Course M-BECOE-020
Table 1: CO-PO Matrix for the Course M-BECOE-020

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M- BECOE-020.1	3	3	3	3	2	2	3	3	3	3	3	2
M- BECOE-020.2	3	3	3	2	2	2	3	3	3	3	3	2
M- BECOE-020.3	3	3	3	2	2	2	3	3	3	3	2	2
M- BECOE-020.4	3	3	3	3	2	2	3	3	3	3	2	2
AVERAGE	**3**	**3**	**3**	**2.5**	**2**	**2**	**3**	**3**	**3**	**3**	**2.5**	**2**

Table 2: CO-PSO Matrix for the Course M-BECOE-020

CO	PSO 1	PSO 2	PSO 3	PSO 4
M- BECOE-020.1	3	3	3	3
M- BECOE-020.2	3	3	3	3
M- BECOE-020.3	2	3	3	2
M- BECOE-020.4	2	2	3	2
AVERAGE	**2.5**	**2.75**	**3**	**2.5**

M.A. Business Economics 1st Semester **Paper- M-BECOE-021 (Elective)** **BUSINESS ENVIRONMENT AND LAWS-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

   III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-021.1	At the end of this course student will be able to familiarize with the nature of business environment and its components.
M-BECOE-021.2	Explain the institutions and markets that comprise the financial system, and explain how they impact business.
M- BECOE-021.3	Discuss the different environment like, technological, socio cultural and international economic environment in the business.
M- BECOE-021.4	Demonstrate and develop knowledge of Cross- cutting issues in International Business Environment and risk analysis.

Unit-I

Introduction to Business Environment

Business environment: Concepts, Significance and Contemporary Perspectives; Process of environmental scanning; Economic Systems; Macroeconomic Indicators and their significance for Business: National Income, Consumption, Investment, Inflation, Business Cycles.

Reading List

- Ahmed, Faisal & Absar Alam, M. (2014). *Business Environment: Indian and Global Perspective*. PHI Learning Private Limited, Delhi.
- Albright, Kendra (2008). Environmental Scanning: Radar for Success. *Information Management Journal*.
- Costa, Jorge (1995). An Empirically-Based Review of the Concept of Environment Scanning. *International Journal of Contemporary Hospitality Management*.
- Duncan, R.B. (1972). Characteristics of organizational environments and perceived environmental uncertainty. *Administrative Science Quarterly*, 313-327.
- Kroon, J. (1995). *General Management*. Pearson South Africa.

Unit-II

Indian Economic Policy

Industrial policy in India in recent years; Policy with regard to small scale industries and labour; Monetary policy; fiscal policy; BOP and union budget as an instrument of growth and their impact on business; Recent Developments in Money and Capital Markets.

Reading List

- Ahmed, Faisal & Absar Alam, M. (2014). *Business Environment: Indian and Global Perspective*. PHI Learning Private Limited, Delhi.
- https://dipp.gov.in/policies-rules-and-acts/policies/industrial-policy.
- https://www.rbi.org.in/scripts/FS_Overview.aspx
- https://dea.gov.in/sites/default/files/FPI_trends_Trajectory.pdf
- https://www.boeckler.de/pdf/v_2013_08_02_mccombie.pdf

- http://www.ferda-halicioglu.com/IKT762-Makroiktisatsecmekonular/Konular/Konu%2010.pdf

Unit-III

International Organizations and Indian Business

International Organizations: UNCTAD, IMF, World bank; WTO Regime and major provisions under WTO; FDI: trends and importance; Technological and socio-cultural environment; Social responsibility and Indian business.

Reading List
- Ahmed, Faisal & Absar Alam, M. (2014). *Business Environment: Indian and Global Perspective*. PHI Learning Private Limited, Delhi.
- Bedia, D.D., Hyde, A. M. & Ubeja, S.K. (2018). *Corporate Ethics in Indian Business Environment*. Writers Choice.

Unit-IV

International Aspects of Business Environment

Internationalization of Firms; Cross-cutting issues in International Business Environment; Foreign exchange risk and exposure; Country risk and political risk analysis.

Reading List
- Ahmed, Faisal & Absar Alam, M. (2014). *Business Environment: Indian and Global Perspective*. PHI Learning Private Limited, Delhi.

Mapping Matrix of Course M-BECOE-021
Table 1: CO-PO Matrix for the Course M-BECOE-021

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M- BECOE-021.1	3	3	3	3	2	2	3	2	-	2	3	3
M- BECOE-021.2	3	3	3	3	2	2	3	2	-	2	3	3
M- BECOE-021.3	3	3	3	3	2	3	3	2	2	2	3	3
M- BECOE-021.4	3	3	3	3	2	3	3	2	2	2	3	3
AVERAGE	**3**	**3**	**3**	**3**	**2**	**2.5**	**3**	**2**	**2**	**2**	**3**	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-021

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-021.1	2	2	2	2
M- BECOE-021.2	2	2	2	2
M- BECOE-021.3	2	2	2	2
M- BECOE-021.4	2	2	2	2
AVERAGE	**2**	**2**	**2**	**2**

M.A. Business Economics 1st Semester **Paper- M-BECOE-022 (Elective)** **ACCOUNTING FOR BUSINESS ECONOMISTS-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

    II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

    III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-022.1	To understand the basic concepts of accounting and its framework.
M-BECOE-022.2	To learn the process of accounting and prepare various books of accounts.
M- BECOE-022.3	To understand the principle of revenue recognition.
M- BECOE-022.4	To understand the methods of depreciation and inventory valuation.

UNIT-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.

Reading List

- Lal, Jawahar & Srivastava, Seema (2006). *Financial Accounting: Principles and Practices*. S. Chand & Co., New Delhi.
- Monga, J.R. (2008). *Financial Accounting: Concepts and Applications*. Mayoor Paper Backs, New Delhi.

UNIT-II

Accounting Process: From recording of a business transaction to preparation of trial balance including adjustments: Capital and Revenue expenditure & receipts, Preparation trial balance, Profit and Loss Account and Balance Sheet(Sole Proprietorship only).

Reading List

- Maheshwari, S. N., Maheshwari, Suneel K. & Maheshwari, Sharad K. (2012). *Financial Accounting*. Vikas Publication, New Delhi.
- Shukla, M.C., Grewal, T.S. & Gupta, S.C. (2017). *Advanced Accounts*. S. Chand & Co., New Delhi.

UNIT-III

Measurement of business income-Net income: the accounting period, the continuity doctrine and matching concept; Objectives of measurement; Revenue: concept, revenue recognition principles, recognition of expenses.

Reading List

- 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.

UNIT-IV

The nature of depreciation; Factors in the measurement of depreciation; Methods of computing depreciation: straight line method and diminishing balance method; Inventories: Meaning. Significance of inventory valuation;

Inventory Record Systems: periodic and perpetual; Methods: FIFO, LIFO and Weighted Average.

Reading List
- Banerjee, B.K. (2008). *Financial Accounting: A Dynamic Approach*. Prentice Hall of India Private Limited, New Delhi.
- Tulsian, P.C. (2009). *Financial Accounting*. Pearson Education.

Mapping Matrix of Course M-BECOE-022
Table 1: CO-PO Matrix for the Course M-BECOE-022

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-022.1	3	3	3	2	2	2	2	3	-	-	3	2
M-BECOE-022.2	3	3	3	2	2	2	2	3	-	-	3	2
M- BECOE-022.3	3	3	3	2	2	2	2	3	-	-	3	2
M- BECOE-022.4	3	3	3	3	3	3	2	3	-	-	3	3
AVERAGE	**3**	**3**	**3**	**2.25**	**2.25**	**2.25**	**2**	**3**	**-**	**-**	**3**	**2.25**

Table 2: CO-PSO Matrix for the Course M-BECOE-022

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-022.1	3	2	3	3
M-BECOE-022.2	3	2	3	3
M-BECOE-022.3	3	2	3	3
M-BECOE-022.4	3	3	2	3
AVERAGE	**3**	**2.25**	**2.75**	**3**

M.A. Business Economics 1st Semester **Paper- M-BECOE-023 (Elective)** **ECONOMICS OF LABOUR-I**	Total Credit: 4 Time: 3 Hrs. Marks: 100 External : 80 Internal : 20

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

    II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

    III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-023.1	To be able to analyze labour market issues through the application of economic data and theories.
M-BECOE-023.2	Critically analyze the factors affecting supply in labour market with quantitative research.
M-BECOE-023.3	To be able to synthesize information on different actors and outcomes across the various labour market topics including employment, unemployment, technological change.
M-BECOE-023.4	To be able to understand the process of wage determination and development of generic skills to think critically, interpret and explore to be able to apply theory to practice and synthesize as well as evaluate data and other information.

Unit-I

Labour Markets and Demand for Labour

Nature and characteristics of labour markets in developing countries like India; Paradigms of labour market analysis — Classical, neo-classical and dualistic economy; Demand for labour in relation to size and pattern of investment; Choice of technologies and labour policies.

Reading List

- Lester, R.A. (1964). *Economics of Labour*, (2nd Edition), Macmillan, New York.
- Rees, A. (1973). *Economics of Work and Pay*, Harper and Row, New York.
- Sen, A.K. (1975). *Employment, Technology, and Development,* Oxford University Press, New Delhi.
- Solow, R.M. (1990). *Labour Market as an Institution*, Blackwell, London.

Unit-II

Supply of labour

Supply of labour in relation to growth of labour force; Labour market policies; Mobility and productivity of labour; Rationalization; Methods of recruitment and placement; Employment service organization in India.

Reading List

- McConnell, C.R. & Brue, S.L. (1986). *Contemporary Labour Economics*, McGraw-Hill, New York.
- Papola, T.S. & Rodgers, G. (Eds.). (1992). *Labour Institutions and Economic Development in India*, International Institute for Labour Studies, Geneva.
- Rosenberg M.R. (1988). *Labour Markets in Low Income Countries*, In Chenery, H.B. and T.N. Srinivasan, (Eds.), The Handbook of Development Economics, North-Holland, New York.

Unit-III

Employment

Employment and development relationship — Poverty and unemployment in developing countries; Unemployment — Concept, Types, and Measurement, particularly in India; Impact of rationalization, technological change and modernization on employment in organized private industry, Public sector and employment in agricultural sector; Analysis of educated unemployment.

Reading List

- Das, N. (1960). *Unemployment, Full Employment and India*. Asia Publishing House, Bombay.
- Datt, G. (1996). *Bargaining Power, Wages and Employment: An Analysis of Agricultural Labour Markets in India*. Sage Publications, New Delhi.
- Kannapon, S. (1983). *Employment Problems and Urban Labour Markets in Developing Countries*. University of Michigan, Ann Arbor.
- Sharma. A.N. & Kundu, A. (Eds.). (2001). *Informal Sector in India: Emerging Perspectives*. Institute for Human Development, New Delhi.

Unit-IV

Wage Determination

Classical, neo-classical and bargaining theories of wage determination; Concepts of minimum wage, living wage and fair wage in theory and practice; Discrimination in labour markets; Wage determination in various sectors — rural, urban, organized, unorganized and in informal sectors.

Reading List

- Binswanger H.P. & Rosenzweig, M.R. (Eds.) (1984), *Contractual Arrangements, Employment, and Wages in Rural Labor Markets in Asia*. Yale University Press, New Haven.
- Desphande L.K. and J.C. Sandesara, (Ed.). (1970). *Wage Policy and Wages Determination in India*. Bombay University Press, Bombay.
- Hicks J.R. (1932). *The Theory of Wages*. Clarendon Press, Oxford.
- Jhabvala, R. &Subrahmanya,R.K. (Eds.) (2000).*The Unorganised Sector: Work Security and Social Protection*. Sage Publications, New Delhi.
- Madan, B.K. (1977).*The Real Wages of Industrial Workers in India*. Management Development Institute, New Delhi.

Mapping Matrix of Course M-BECOE-023
Table 1: CO-PO Matrix for the Course M-BECOE-023

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-023.1	3	3	3	3	2	2	2	-	2	-	2	3
M- BECOE-023.2	3	3	3	2	2	2	2	-	2	-	2	3
M- BECOE-023.3	3	3	3	2	2	3	2	-	2	-	2	2
M- BECOE-023.4	3	3	3	2	2	2	2	-	2	-	2	2
AVERAGE	3	3	3	2.25	2.00	2.25	2.00	-	2	-	2.00	2.50

Table 2: CO-PSO Matrix for the Course M-BECOE-023

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-023.1	3	2	3	2
M- BECOE-023.2	3	2	3	3
M- BECOE-023.3	3	3	3	3
M- BECOE-023.4	2	3	2	2
AVERAGE	2.75	2.50	2.75	2.50

M.A. Business Economics 1st Semester **Paper- M-BECOE-024 (Elective)** **ECONOMICS OF BANKING-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

 III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-024.1	Understanding 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.
M-BECOE-024.2	Able to grasp various issues related to commercial banking simultaneously able to do critical appraisal of the progress of this sector and its contribution to growth.
M-BECOE-024.3	To know the 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.
M-BECOE-024.4	To 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.

Unit-I

Conceptualization of Money

Money: Meaning, Classification and Functions, Gresham's law, Monetary standards, Metallic and paper systems of note issue; Measures of money supply and sources of reserve money in India; Brief history of Indian Rupee; Value of money, Measurement and determination.

Reading List

- 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.

Unit-II

Commercial Banking

Meaning and functions of commercial banks, the process of credit creation, Purpose and limitations, Liabilities and Assets of banks, Investment policy of commercial banks, Commercial bank and economic development, Co-operative banks, A critical appraisal of the progress of commercial banking after nationalization.

Reading List

- 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.

Unit-III

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.

Reading List

- 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.

Unit-IV

Indian Money Market

Structure of financial market in India; Structure and functions of Indian money market including call money, treasury bills and commercial bills, weaknesses of money market in India, Money markets instruments; Development banking in India: IFCI, IDBI, and ICICI.

Reading List

- Mishkin, F.S. (2016). *The Economics of Money, Banking and Financial Markets*. Pearson Education.
- 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.

Mapping Matrix of Course M-BECOE-024
Table 1: CO-PO Matrix for the Course M-BECOE-024

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-024.1	3	3	3	3	2	2	2	2	-	-	-	2
M-BECOE-024.2	3	3	3	3	2	3	2	2	-	-	-	2
M-BECOE-024.3	3	3	3	3	2	3	2	2	-	-	-	2
M-BECOE-024.4	3	3	3	3	2	3	2	2	-	-	-	3
AVERAGE	3	3	3	3	2	2.75	2	2	-	-	-	2.25

Table 2: CO-PSO Matrix for the Course M-BECOE-024

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-024.1	3	2	3	3
M-BECOE-024.2	3	2	3	3
M-BECOE-024.3	3	2	3	3
M-BECOE-024.4	3	2	3	3
AVERAGE	3	2	3	3

M.A. Business Economics 1st Semester **Paper- M-BECOE-025 (Elective)** **ECONOMICS OF INSURANCE-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

  I] Nine Questions will be set in all and students will be required to attempt 5 questions.

  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

  III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M- BECOE-025.1	Understand the concept of insurance and how it is used to cover risk.
M- BECOE-025.2	Explain the relationship between insurers and insured and the importance of insurance contracts.
M- BECOE-025.3	Analyze Financial Statements of an Insurance Company.
M- BECOE-025.4	Understand meaning and consequences of asymmetric Information and its application in insurance sector.

Unit-I

Rationale of Insurance

Risk: Measurement, Perception, and Management; Macroeconomic Importance of Insurance; Nature, Functions, Elements, Principles and Fields of Insurance; Major Determinants of the Demand for Insurance; Risk management applications.

Reading List

- Beard, R.E., Pentikainen, T., & Pesonen, E. (1984). *Risk Theory: The Stochastic Basis of Insurance*. London: Chapman and Hall
- Zweifel, Peter & Eisen, Roland. (2012). *Insurance Economics*. Springer.

Unit-II

Demand for Insurance

Insurance Demand: The Expected Utility Maximization Hypothesis; Theory of Insurance Demand- The Basic Model, Insurance Demand in the Presence of Irreplaceable Assets; Demand for Insurance Without Fair Premiums; Demand for Insurance with Multiple Risks; Critique of the Expected Utility Hypothesis and Alternatives; Risk Management and Diversification; Risk Management, Forward Contracts, Futures, and Options.

Reading List

- Beard, R.E., Pentikainen, T., & Pesonen, E. (1984). *Risk Theory: The Stochastic Basis of Insurance*. London: Chapman and Hall
- Zweifel, Peter & Eisen, Roland. (2012). *Insurance Economics*. Springer.

Unit-III

Supply Side of Insurance

Financial Statements of an Insurance Company; Functions of Insurers; Underwriting Policy; Controlling Moral Hazard Effects; Reinsurance; Insurance and law of Contract; The Supply of Insurance- Traditional Premium Calculation, Financial Models of Insurance Pricing; Economies of Scope; Economies of Scale.

Reading List

- Beard, R.E., Pentikainen, T., & Pesonen, E. (1984). *Risk Theory: The Stochastic Basis of Insurance*. London: Chapman and Hall
- Zweifel, Peter & Eisen, Roland. (2012). *Insurance Economics*. Springer.

Unit-IV

Insurance Regulation

Asymmetric Information and Its Consequences; Moral Hazard; Adverse Selection; Objectives, Theories and Types of Insurance Regulation; Effects of Insurance Regulation; Recent Trends in Insurance Regulation; Insurance regulation & Development Authority.

Reading List

- Abraham, K.S. (1995).*Insurance Law and Regulation: Cases and Materials*. Westbury NY: The Foundation Press.
- Dionne, G. & Harrington, S.E. (Ed.). (1997).*Foundations of Insurance Economics*. Kluwer academic Publishers, Boston.
- Zweifel, Peter & Eisen, Roland. (2012). *Insurance Economics*. Springer.

Mapping Matrix of Course M-BECOE-025
Table 1: CO-PO Matrix for the Course M-BECOE-025

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-025.1	3	3	3	2	3	3	3	2	-	-	-	3
M-BECOE-025.2	3	3	3	2	3	3	3	2	-	-	-	3
M-BECOE-025.3	3	3	3	2	3	3	3	2	-	-	-	3
M-BECOE-025.4	3	3	3	2	3	3	3	2	-	-	-	3
AVERAGE	**3**	3	**3**	2	**3**	**3**	**3**	**2**	-	-	-	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-025

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-025.1	3	3	3	2
M-BECOE-025.2	3	3	3	2
M-BECOE-025.3	3	3	3	2
M-BECOE-025.4	3	3	3	2
AVERAGE	**3**	**3**	**3**	**2**

MA BUSINESS ECONOMICS PART-I SEMESTER-II (W.E.F. 2020-21)

PAPER CODE	NOMENCLATURE	No. of Credit	Teaching Scheme Hrs/Week			Examination Scheme (Marks & Time)				
			L	**T**	**P**	External Marks		Internal Assessment	Total	Time
CORE COURSES										
M-BECOC- 006	Micro Economic Analysis-II	4	4	½ hrs/G	-	80		20	100	3 Hrs.
M-BECOC- 007	Macro Economic Analysis-II	4	4	½ hrs/G	-	80		20	100	3 Hrs.
M-BECOC -008	Statistics For Business Economists	4	4	½ hrs/G	2	60	20	20	100	3 Hrs.
M-BECOC -009	Public Economics-II	4	4	½ hrs/G	-	80		20	100	3 Hrs.
M-BECOC -010	Practical: Statistical Software for Data Analysis and Project Work	4	-	-	6	Practical viva-voce 20		Practical File and Project 80	100	3 Hrs.
Elective Courses (Choose Any One Elective Paper)										
M-BECOE -026	Management Concepts And Organizational Behaviour-II	4	4	½ hrs/G	-	80		20	100	3 Hrs.
M-BECOE -027	Information System And Business-II	4	4	½ hrs/G	-	80		20	100	3 Hrs.
M-BECOE -028	Business Environment And Laws-II	4	4	½ hrs/G	-	80		20	100	3 Hrs.
M-BECOE -029	Accounting For Business Economists-II	4	4	½ hrs/G	-	80		20	100	3 Hrs.
M-BECOE -030	Economics of Labour-II	4	4	½ hrs/G	-	80		20	100	3 Hrs.
M-BECOE -031	Economics of Banking-II	4	4	½ hrs/G	-	80		20	100	3 Hrs.
M-BECOE -032	Economics of Insurance-II	4	4	½ hrs/G	-	80		20	100	3 Hrs.
OESS (*1 to 10*)	Candidate is required to take one Option Elective, other than Economics, from the Common Lists of Papers of Social Sciences (Syllabus enclosed in the end)	2	2	½ hrs/G	-	50		-	50	2 Hrs.
Total		26	22	3		600				

Note: Students are required to select any one (01) elective paper. The students will select the same corresponding papers as in Semester I. However, the number of options offered is subject to the availability of faculty.

Compulsory Credits: 20
Optional Credits: 06

M.A. Business Economics 2nd Semester **Paper- M-BECOC-006 (Compulsory)** **MICRO ECONOMIC ANALYSIS-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

    II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

    III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOC-006.1	Able to understand new advances in the theory of firm and think critically/ analyze economic problems in the context of firm.
M-BECOC-006.2	Adopt different analytical concepts and models in framing development and policy-relevant problems particularly factor pricing and income distribution.
M-BECOC-006.3	Understand the effects of various decisions on welfare of people through general equilibrium analysis.
M-BECOC-006.4	Apply Microeconomic tools to solve real life problems especially under uncertainty and game theory.

Unit-I

Managerial Theories of Firm

Critical evaluation of marginal analysis; Average Cost Pricing model; Bain's Limit Pricing Theory; Baumal's Sales Revenue Maximization model (all four static models); Marris Model of Managerial Enterprise; Williamson's Model of Managerial Discretion.

Reading List

- Bain, J. (1958). *Barriers to New Competition*. Harvard University Press, Harvard
- Hirshleifer, J. & Glazer, A. (1997). *Price Theory and Applications*. Prentice Hall of India, New Delhi.
- 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.

Unit-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.

Reading List

- Bronfenbrenner, M. (1979). *Income Distribution Theory*. Macmillan, London.
- Da Costa, G.C. (1980). *Production, Prices and Distribution*. Tata McGraw Hill, New Delhi.
- Hirshleifer, J. & Glazer, A. (1997). *Price Theory and Applications*. Prentice Hall of India, New Delhi.
- 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.

Unit-III

General Equilibrium and Market Efficiency

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.

Reading List

- 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.
- Henderson, J.M. & Quandt, R.E. (1980). *Microeconomic Theory: A Mathematical Approach*. McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1979). *Modern Microeconomics (2nd Edition)*. Macmillan Press, London.
- 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.

Unit-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.

Reading List

- Borch, K.H. (1968). *The Economics of Uncertainty*. Princeton University Press, Princeton.
- Diamond, P.A. & Rothschild, M. (Eds.). (1978). *Uncertainty in Economics: readings and 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.

Mapping Matrix of Course M-BECOC-006
Table 1: CO-PO Matrix for the Course M- BECOC-006

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-006.1	3	3	3	3	3	2	2	2	2	2	2	2
M-BECOC-006.2	3	3	3	3	3	2	2	2	2	2	2	2
M-BECOC-006.3	3	3	3	3	3	2	2	2	2	2	2	2
M-BECOC-006.4	3	3	3	3	3	2	2	2	2	2	2	2
AVERAGE	**3**	**3**	**3**	**3**	**3**	**2**	**2**	**2**	**2**	**2**	**2**	**2**

Table 2: CO-PSO Matrix for the Course M-BECOC-006

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-006.1	3	3	3	3
M-BECOC-006.2	3	3	3	3
M-BECOC-006.3	3	2	3	3
M-BECOC-006.4	3	3	3	3
AVERAGE	**3**	**2.75**	**3**	**3**

M.A. Business Economics 2nd Semester **Paper- M-BECOC-007 (Compulsory)** **MACRO ECONOMIC ANALYSIS-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter
   I] Nine Questions will be set in all and students will be required to attempt 5 questions.
  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
 III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOC-007.1	Learn and explain various theories of demand for money
M-BECOC-007.2	Understand the theories of money supply and interest rates.
M-BECOC-007.3	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.
M-BECOC-007.4	Explain the components of aggregate economic activity in an open economy framework

Unit-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; Akerlof and Milbourne (A-M) model; Miller-Orr model.

Reading List
- 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.

Unit-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 Rates - Time Value of Money, Risk and Uncertainty; Theories of Determination of Interest Rate: Classical, Loanable Funds and Keynesian; Theories of Term Structure of Interest Rates.

Reading List
- Mankiw, Gregory N. (2003). *Macroeconomics*. Worth Publishers.
- Mishkin, F.S. (2016). *The Economics of Money Banking and Financial Markets.* Pearson.
- Levacic, Rosalind & Rebmann, Alexander (2015). *Macroeconomics.* Macmillan, London.
- Bain, K. & Howells, P. (2009). *Monetary Economics: Policy and its Theoretical Basis.* Macmillan International Higher Education.
- Handa, Jagdish (2000). *Monetary Economics*. Routledge, London.

Unit-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, and Kalecki; Control of business cycles – relative efficacy of monetary and fiscal policies.

Reading List

- Gali, J. (2015). *Monetary Policy, inflation and Business Cycles.* Princeton University Press.
- Lucas, R.E. (1983). *Studies in Business Cycle Theory.* MIT Press.
- Mankiw, Gregory N. (2003). *Macroeconomics*. Worth Publishers.
- Mishkin, F.S. (2016). *The Economics of Money Banking and Financial Markets.* Pearson.
- Frisch, H. (1983). *Theories of Inflation.* Cambridge University Press.
- Gali, J. (2015). *Monetary Policy, inflation and Business Cycles.* Princeton University Press.

Unit-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 Ineffectiveness, Lucas Supply Curve.

Reading List

- Jha, R. (1991). *Contemporary Macroeconomic Theory and Policy.* Wiley Eastern Limited.
- Mankiw, Gregory N. (2003). *Macroeconomics*. Worth Publishers.
- Romer, David (2012). *Advanced Macroeconomics*. McGraw Hill Education.
- 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.

Mapping Matrix of Course M-BECOC-007
Table 1: CO-PO Matrix for the Course M-BECOC-007

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-007.1	3	3	3	3	2	2	2	3	-	-	-	2
M-BECOC-007.2	3	2	3	3	3	2	2	3	-	-	-	2
M-BECOC-007.3	3	3	3	2	2	2	2	2	-	-	-	2
M-BECOC-007.4	3	2	3	3	2	2	2	3	-	-	-	2
AVERAGE	**3.00**	**2.50**	**3.00**	**2.75**	**2.25**	**2.00**	**2**	**2.75**	**-**	**-**	**-**	**2.00**

Table 2: CO-PSO Matrix for the Course M-BECOC-007

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-007.1	3	2	3	3
M-BECOC-007.2	3	3	3	2
M-BECOC-007.3	3	3	3	2
M-BECOC-007.4	3	2	3	2
AVERAGE	**3.00**	**2.50**	**3.00**	**2.25**

M.A. Business Economics 2nd Semester **Paper- M-BECOC-008 (Compulsory)** **STATISTICS FOR BUSINESS ECONOMISTS**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

 III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOC-008.1	Understand and solve the problems of construction and interpretation of index numbers for economic variables and measure various components of time series.
M-BECOC-008.2	Apply, solve and prove various probability theorems besides analyze and interpret statistical data using appropriate probability distributions.
M-BECOC-008.3	Understand, explain, solve and apply the hypothesis testing and selection of appropriate statistical technique for testing the hypothesis.
M-BECOC-008.4	Understand the estimation of degree & direction of relationship as well as cause & effect relationship between two variables.

Unit-I

Index Numbers and Time Series Analysis

Index numbers: uses, types and construction; Tests for consistency of index numbers; Base shifting, splicing and deflating of index numbers.

Time series analysis: introduction and components; Methods for measuring trend, seasonal, cyclical and irregular variations.

Reading List

- Barrow, M. (2017). *Statistics for Economics, Accounting and Business Studies*. Pearson Education.
- Croxton, F. E., Cowden, D. & Kliein, S. (1951). *Applied General Statistics*. Prentice Hall, New Delhi.
- Karmal, P.H. & Polasek, M. (1978). *Applied Statistics for Economists*. Pitman, Australia.
- Naghshpour, S. (2012). *Statistics for Economics*. Business Expert Press.
- Sharma, J.K. (2012). *Business Statistics*. Dorling Kindersley (India) Pvt. Ltd., New Delhi.

Unit-II

Probability and Sampling

Basic concepts and definitions of probability; Laws of addition and multiplication; Conditional probability; Bayes' theorem (statement); Binomial, Poisson and Normal distributions; Basic concepts of sampling- random and non-random sampling.

Reading List

- Hong, Y. (2017). *Probability and Statistics for Economists*. World Scientific Publishing Co. Pte. Ltd., Singapore.
- Mittelhammer, R. C. (2012). *Mathematical Statistics for Economics and Business*. Springer-Verlag New York, Inc.
- Speigal, M. R. (1972). *Theory and Problems of Statistics*. McGraw Hill Book, London.
- Vohra, N. D. (2006). *Quantitative Techniques in Management*. Tata McGraw Hill, New Delhi.

Unit-III

Data Analysis and Hypothesis Testing

Types of data and statistical analysis procedures: univariate, bivariate and multivariate (only overview); Hypothesis testing procedures based on Z-test, t-test, χ^2-test, F-test and ANOVA.

Reading List
- Anderson, David R., Sweeney, Dennis J. & Williams, Thomas A. (2014).*Essentials of Statistics for Business and Economics*. South-Western Cengage Learning, USA.
- Denis, Daniel J. (2018).*SPSS Data Analysis for Univariate, Bivariate, and Multivariate Statistics*. John Wiley & Sons Inc., USA.
- Karmal, P.H. & Polasek, M. (1978). *Applied Statistics for Economists*. Pitman, Australia.
- Naghshpour, S. (2012). *Statistics for Economics*. Business Expert Press.
- Sharma, J.K. (2012). *Business Statistics*. Dorling Kindersley (India) Pvt. Ltd., New Delhi.

Unit-IV

Correlation and Regression Analysis

Correlation: Karl Pearson, Spearman's Rank and Concurrent Deviations; Introduction to simple regression analysis; Single linear equation regression model (by OLS Method), Concept of an estimator and its desirable properties; Coefficient of determination; Estimation of simple and exponential growth rates.

Reading List
- Aggarwal, B.L. (2006). *Basic Statistics*. New Age International Publishers, New Delhi.
- Gupta, S.C. & Kapoor, V.K. (2007). *Fundamentals of Applied Statistics*. S. Chand and Sons, New Delhi.
- Kamenta J. (1997). *Elements of Econometrics*. Macmillan Publishing Co., Inc. New York.
- Koutsoyiannis, A. (2001). *Theory of Econometrics*. Palgrave Macmillan Limited.

PRACTICAL EXAM: An external examiner will be appointed to conduct the practical exam of 20 marks. Students are supposed to do all Mathematical/Statistical/Financial functions in Excel software.

Mapping Matrix of Course M-BECOC-008
Table 1: CO-PO Matrix for the Course M-BECOC-008

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-008.1	3	3	3	3	3	2	2	2	-	-	-	3
M-BECOC-008.2	3	3	3	3	3	2	2	2	-	-	-	3
M-BECOC-008.3	3	3	3	3	3	2	2	2	-	-	-	3
M-BECOC-008.4	3	3	3	3	3	2	2	2	-	-	-	3
AVERAGE	**3**	**3**	**3**	**3**	**3**	**2**	**2**	**2**	-	-	-	**3**

Table 2: CO-PSO Matrix for the Course M-BECOC-008

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-008.1	3	3	2	2
M-BECOC-008.2	3	3	2	2
M-BECOC-008.3	3	3	2	2
M-BECOC-008.4	3	3	2	2
AVERAGE	**3**	**3**	2	2

M.A. Business Economics 2nd Semester **Paper- M-BECOC-009 (Compulsory)** **PUBLIC ECONOMICS-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

 III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOC-009.1	Able to 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.
M-BECOC-009.2	Understand and present important international issues in public economics with regard to taxation and public goods, critically analyze the working and pricing of public enterprises and apply social costs –benefits analysis in context of various projects.
M-BECOC-009.3	Attain fundamental in-depth knowledge of various thoughts regarding public debt along with the sustainability, burden & management of public debt and critically examine the relationship of public debt with important policy issues including inflation and economic growth.
M-BECOC-009.4	Understand, explain, apply and present the theory of fiscal federalism in general as well as in context of India.

Unit-I

Public Choice

Rational Voter Hypothesis; Characteristics of Majority Voting Rule; Buchanan and Tullock Model, Bowen-Black Model; Arrow's Impossibility Theorem; Downs Model on Demand and Supply of Government Policy; Models of Bureaucratic Behaviour: Niskanen, Tullock; Voting and the Leviathan Hypothesis.

Reading List

- Arrow, K. (1951).*Social Choice and Individual Values*. Yale University Press.
- Boadway, Robin (1984). *Public Sector Economics*. Cambridge, Winthrop Publications.
- Cullis, John & Jones, Philip (2009). John *Public Finance and Public Choice: Analytical Perspectives*. Oxford University Press.
- Hackelman, J.C. (2004). *Readings in Public Choice Economics*. University of Michigan Press.
- Lee, D., Moretti, E. & Butler, M. (2004). Do Voters Affect or Elect Policies? Evidence from the U.S. House. *Quarterly Journal of Economics*, 119(3), 807-859.
- Piketty, T. (1999). The Information-Aggregation Approach to Political Institutions. *European Economic Review*, 43, 791-800.

Unit-II

International Issues in Public Economics

International aspects of taxation; Global Public Goods; Trade Taxes and Public Choice.

Public Enterprises

Pricing Policies in Public Enterprises- Ramsey-Boiteux Linear pricing, Marginal cost pricing, peak load pricing; Theory of Second Best; Social Cost Benefit Analysis.

Reading List

- Boadway, Robin (1984). *Public Sector Economics*. Cambridge, Winthrop Publications.
- Gordon, R. & Hines, J. (2002). International Taxation. In Auerbach, A. and Feldstein, M. (Eds.), *Handbook of Public Economics* (vol. 4). Elsevier.
- 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.
- Piketty, T. (2014).*Capital in the Twenty-First Century*. Harvard University Press.
- Zucman, G. (2014). Taxing across Borders: Tracking Personal Wealth and Corporate Profits. *Journal of Economic Perspectives*, 28(4), 121-148.

Unit-III

Issues in Public Debt

Burden Controversy of Public Debt – Classical Theory, Modern Theory, Buchanan Thesis, Secondary Burden of Public Debt; Public Debt and Inflation; Public Debt Management and Redemption of Public Debt; Public debt and economic growth; Sustainability of public debt.

Reading List
- Bagchi, Amaresh (Ed.). (2005). *Readings in Public Finance*. Oxford University Press.
- Ganguly, S. (1963). *Public Finance: A Normative Approach*. Nababharat Publishers.
- Greiner, A. & Fincke, B. (2009). *Public Debt and Economic Growth*. Springer.
- Ihori, Toshihiro (2016). *Principles of Public Finance*. Springer.

Unit-IV

Theory of Fiscal Federalism

The Decentralisation theorem; Optimum Size of Local Community; Assignment issues in multi-level Government; Tiebout Model; Theory of Intergovernmental Grants; Redistributive Impact of the Budget; Budget deficits- Sustainability, solvency and optimality; Centre-State fiscal relations in India - Theory and practice.

Reading List
- Bagchi, Amaresh (Ed.). (2005). *Readings in Public Finance*. Oxford University Press.
- Boadway, Robin (1984). *Public Sector Economics*. Cambridge, Winthrop Publications.
- Oates, W. E. (1999). An Essay on Fiscal Federalism. *Journal of Economic Literature*, 37(3), 1120-1149.
- Roemer, J. (1998).*Theories of Distributive Justice*. Harvard University Press.
- Tiebout, C.M. (1956). A Pure Theory of Local Expenditures. *Journal of Public Economics*, 64, 416-424.

Mapping Matrix of Course M-BECOC-009
Table 1: CO-PO Matrix for the Course M- BECOC-009

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-009.1	3	3	3	2	2	2	3	-	3	-	-	2
M-BECOC-009.2	3	3	3	2	2	2	3	-	3	-	-	2
M-BECOC-009.3	3	3	3	2	2	2	3	-	3	-	-	2
M-BECOC-009.4	3	3	3	2	2	2	3	-	3	-	-	2
AVERAGE	**3**	**3**	**3**	2	**2**	**2**	**3**	**-**	**3**	**-**	-	**2**

Table 2: CO-PSO Matrix for the Course M- BECOC-009

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-009.1	3	2	3	3
M-BECOC-009.2	3	2	3	2
M-BECOC-009.3	3	2	3	3
M-BECOC-009.4	3	2	3	3
AVERAGE	**3**	**2**	3	**2.75**

M.A. Business Economics 2nd Semester **Paper- M-BECOC-010 (Compulsory)** **PRACTICAL: STATISTICAL SOFTWARE FOR DATA ANALYSIS** **AND PROJECT WORK**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **Practical File and Project: 80** **Practical viva-voce : 20**

FRAMEWORK OF THE PAPER

Component 1 (PRACTICAL WORK): Students are required to prepare a practical file by applying statistical tools on a dataset in a statistical software thereby mentioning the commands and output. For this, topics will be assigned by the teacher from the 4 units.
Component 1 has a weightage of 60 marks (4 UNITS *15 marks each)

Component 2 (PROJECT WORK): Students will be assigned a topic on which he/she will conduct a small sample survey using primary/secondary data. The collected data will be analyzed using the suitable tools mentioned in the syllabus. The students will prepare a write up containing the problem formulation, theoretical framework, analysis and discussion etc. on the chosen topic.
Component 2 has a weightage of 20 marks.
The concerned teacher will assign marks out of 80 by evaluating the practical file.

Component 3 (VIVA VOCE): Students are required to appear in the viva-voce examination based on the syllabus for which an external examiner will be appointed. It will have a weightage of 20 marks.

Course Outcomes	
M-BECOC-010.1	Develop the ability to conduct a survey using primary or secondary data.
M-BECOC-010.2	Students will be able to use ICT based softwares to analyze data.
M-BECOC-010.3	Students will develop their research paper writing skills.
M-BECOC-010.4	Students will be able to learn statistical techniques in a better way by applying these in project work.

Unit – I

Data Entry; Presenting the Data: Counts and Bar Charts, Histogram, Multivariate Tables, Scatter Plots and 3D Plots, Categorised Plots; Summarising the Data: Arithmetic Mean, Median, Quantiles, Mode, Range, Inter-quartile range, Variance, Standard Deviation, Skewness, Kurtosis.

Unit-II

Measures of Association for Continuous Variables- Partial Correlation, Measures of Association for Ordinal Variables- The Spearman Rank Correlation, The Gamma Statistic, Measures of Association for Nominal Variables- The Phi Coefficient, The Lambda Statistic, The Kappa Statistic.

Unit-III

Estimating Data Parameters- Point Estimation and Interval Estimation, Estimating a Mean, Estimating a Proportion, Estimating a Variance, Estimating a Variance Ratio; Parametric Tests of Hypotheses: Inference on One Population- Testing a Mean, Testing a Variance; Inference on Two Populations- Testing a Correlation, Comparing Two Variances- The F Test, Comparing Two Means- Independent Samples and Paired Samples.

Unit-IV

Inference on More than Two Populations: One-Way ANOVA, Two-Way ANOVA; Non-Parametric Tests of

Hypotheses: Inference on One Population- The Runs Test, The Binomial Test, The Chi-Square Goodness of Fit Test, The Kolmogorov-Smirnov Goodness of Fit Test, The Shapiro-Wilk Test for Normality, contingency table, The Chi-Square Test of Independence, Inference on Two Populations- Tests for Two Independent Samples, The Kolmogorov-Smirnov Two-Sample Test, The Mann-Whitney Test, The Sign Test, The Wilcoxon Signed Ranks Test, Inference on More Than Two Populations- The Kruskal-Wallis Test for Independent Samples, The Friedmann Test for Paired Samples; Simple Linear Regression Model.

Mapping Matrix of Course M-BECOC-010
Table 1: CO-PO Matrix for the Course M-BECOC-010

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-010.1	3	3	3	3	3	3	-	3	3	-	3	3
M-BECOC-010.2	3	3	3	3	3	3	-	3	3	-	3	3
M-BECOC-010.3	3	3	3	3	3	3	-	3	3	-	3	3
M-BECOC-010.4	3	3	3	3	3	3	-	3	3	-	3	3
AVERAGE	**3**	**3**	**3**	**3**	**3**	**3**	**-**	**3**	**3**	**-**	**3**	**3**

Table 2: CO-PSO Matrix for the Course M-BECOC-010

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-010.1	3	3	3	3
M-BECOC-010.2	3	3	3	3
M-BECOC-010.3	2	3	3	2
M-BECOC-010.4	2	2	3	2
AVERAGE	**2.5**	**2.75**	**3**	**2.5**

M.A. Business Economics 2nd Semester	Total Credit: 4
Paper- M-BECOE-026 (Elective) **MANAGEMENT CONCEPTS AND ORGANIZATIONAL BEHAVIOUR-II**	Time: 3 Hrs. Marks: 100 External : 80 Internal : 20

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

    II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

    III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-026.1	Understand and comprehend the nature of organizational behavior, its different models with a view to analyze the personality.
M-BECOE-026.2	Understand and analyze the motivation and group dynamics theories to develop leadership qualities.
M-BECOE-026.3	Understand and analyze the nature of conflicts and stress and the strategies to cope at individual & organizational level.
M-BECOE-026.1	Understand the process of change management to make organizations more dynamic and adaptive.

Unit-I

Organizational Behaviour, Personality and Attitudes

Organizational Behaviour: Definition, Importance, Scope, Fundamental Concepts of OB, Different models of OB: autocratic, custodial, supportive, collegial and SOBC.

Personality & Attitudes: Meaning of personality, attitude; Development of personality: Attributes of personality; Transactional Analysis; Ego states, Johari window, Nature and dimensions of attitude, Developing the right attitude.

Reading List

- Dwivedi, R.S. (2001). *Human Relations and Organisational Behaviour*. McMillan Press.
- Luthans, Fred (2011). *Organisational Behaviur*. Tata McGraw Hill.
- Sudha, G.S. (2003). *Management Concepts and Organisational Behaviour*. RBSA Publishers.
- https://bdpad.files.wordpress.com/2015/05/fred-luthans-organizational-behavior-_-an-evidence-based-approach-twelfth-edition-mcgraw-hill_irwin-2010.pdf

Unit-II

Motivation, Morale and Group Dynamics

Motivation: Definition, Importance, Motives: Characteristics, Classification of motives: Primary & Secondary motives; Theories of Motivation: Maslow's Theory of need hierarchy, Herzberg's theory; Morale: Definition and relationship with productivity, Morale Indicators.

Group Dynamics and Team building: Concept of Group & Team; Theories of Group Formation: Formal and Informal Groups; Importance of Team building.

Reading List

- Dwivedi, R.S. (2001), *Human Relations and Organisational Behaviour,* McMillan Press.
- https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1540-4781.1997.tb05515.x
- Luthans, Fred (2011). *Organisational Behaviur.* Tata McGraw Hill.

Unit-III

Conflict and Stress Managements

Conflict Management: Definition, Traditional vis-à-vis Modern view of conflict, Types of conflict:

Intrapersonal, Interpersonal and Organizational; Constructive and Destructive conflict; Conflict management. Stress management: Definition, Causes, Managing stress, Stress as a motivator; Work life balance.

Reading List
- Rudani, R.B. (2011). *Management and Organisational Behaviour*. Tata McGraw Hill Education Private Limited.
- http://www.geocities.ws/Eureka/Office/7479/conflict.pdf
- https://books.google.co.in/books?hl=en&lr=&id=pSHhPw5lF08C&oi=fnd&pg=PA3&dq=conflict+management&ots=Ua9YHgo7VM&sig=QgVyRAI2mxnJGRfUaMw9nREMPGQ&redir_esc=y#v=onepage&q=conflict%20management&f=false
- https://psycnet.apa.org/record/1988-97150-000

Unit-IV

Change Management
Concept of change, change as a natural process, Importance & Causes of change: social, economic, technological, organizational; Learning: unlearning, Concept of learning organizations; Management Practices across the world; Select cases of Domestic & International Corporations.

Reading List
- Passenheim, O. (2010). *Change Management*. Ventus Publishing (Available for free download at bookboon.com).
- Rudani, R.B. (2011). *Management and Organisational Behaviour*. Tata McGraw Hill Education Private Limited.

Mapping Matrix of Course M-BECOE-026
Table 1: CO-PO Matrix for the Course M-BECOE-026

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-026.1	3	3	3	3	3	3	3	2	2	3	3	3
M-BECOE-026.2	3	3	3	3	3	3	3	2	2	3	3	3
M-BECOE-026.3	3	3	3	3	3	3	3	2	2	3	3	3
M-BECOE-026.1	3	3	3	3	3	3	3	2	2	3	3	3
AVERAGE	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**2**	**2**	**3**	**3**	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-026

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-026.1	2	3	3	2
M-BECOE-026.2	2	3	3	2
M-BECOE-026.3	2	3	3	2
M-BECOE-026.1	2	3	3	2
AVERAGE	**2**	**3**	**3**	**2**

M.A. Business Economics 2nd Semester **Paper- M-BECOE-027 (Elective)** **INFORMATION SYSTEMS AND BUSINESS-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

 III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-027.1	Understand, conceptualize and present the various aspects of e-business and e-commerce. And thus become able to use these aspects with ethical perspectives in economic activities.
M-BECOE-027.2	In-depth knowledge of various security threats in context of e-business and e-commerce along with understanding of various tools to handle these threats to impart smoothness in e-business and e-commerce.
M-BECOE-027.3	Understand the various concepts related with electronic payment systems along with infrastructural issues and challenges in electronic payment systems and thus, become able to develop suggestive mechanism with ethical considerations.
M-BECOE-027.4	Know to apply and explain various tools of e-business.

Unit-I

Introduction to E-Business

Electronic Business, Electronic Commerce, Electronic Commerce Models, Types of Electronic Commerce, Value Chains in Electronic Commerce, E-Commerce in India. Internet, World Wide Web, Internet Architectures, Internet Applications, Web Based Tools for Electronic Commerce, Intranet, Composition of Intranet, Business Applications on Intranet, Extranets. Electronic Data Interchange, Components of Electronic Data Interchange, Electronic Data Interchange Communication Process.

Reading List

- Bajaj, K.K. & Nag, D. (2005). *E-Commerce: The Cutting Edge of Business*. Tata McGraw Hill, Publishing Company Ltd., New Delhi.
- Chaffey, Dave (2007). *E-business and E-commerce Management: Strategy, Implementation and Practice*. Financial Times Prentice Hall.
- Combe, C. (2012). *Introduction to e-Business: Management and Strategy*. Elsevier.
- Whitley, David (2001). *E-Commerce Strategy, Technologies and Applications*. Tata McGraw Hill.
- https://www.toppr.com/guides/business-studies/emerging-modes-of-business/e-business/
- https://www.tutorialspoint.com/e_commerce/e_commerce_edi.htm

Unit-II

Security Threats to E-Business

Security Overview, Electronic Commerce Threats, Encryption, Cryptography, Public Key and Private Key Cryptography, Digital Signatures, Digital Certificates, Security Protocols over Public Networks: HTTP, SSL, Firewall as Security Control, Public Key Infrastructure (PKI) for Security, Prominent Cryptographic Applications.

Reading List

- Braithwaite, T. (2002). *Securing E-Business Systems: A Guide for Managers and Executives*. John Wiley & Sons.
- Khosrowpour, M. (2004). *E-commerce Security: Advice from Experts*. Cyber Tech Publishing, USA.
- https://www.researchgate.net/profile/Narendra_kumar_Tyagi/publication/266892412_Nullifying_the_Impacts_of_Security_Threats_on_e-Business_Using_Cryptography_with_e-BSP/links/54ca44340cf2517b755ddb11.pdf
- https://gjeis.com/index.php/GJEIS/article/view/178

- https://cs.gmu.edu/~hfoxwell/EC511/ch10.pdf

Unit-III

Introduction to Electronic Payment System

Concept of Money, Concept and Types of Electronic Payment Systems, Smart Cards, Infrastructure Issues in EPS, Electronic Fund Transfer.

Reading List
- Abrazhevich, Dennis (2004). *Electronic Payment Systems: a User-Centered Perspective and Interaction Design.*Technische Universiteit, Eindhoven, Netherland.
- O'Mahony, D., Peirce, M. A. & Tewari, H. (2001). *Electronic Payment Systems for E-commerce*. Artech House Publications.
- http://www.medien.ifi.lmu.de/lehre/ws0910/mmn/mmn7.pdf
- https://ieeexplore.ieee.org/abstract/document/612244
- https://www.sciencedirect.com/science/article/abs/pii/S0160791X0200012X

Unit-IV

E-Business Applications and Strategies

Business Models & Revenue Models over Internet, Emerging Trends in e-Business, e-Governance, Digital Commerce, Mobile Commerce, Strategies for Business over Web, Internet based Business Models.

Reading List
- Bajaj, K.K. & Nag, D. (2005). *E-Commerce: The Cutting Edge of Business*. Tata McGraw Hill, Publishing Company Ltd., New Delhi.
- Chaffey, Dave (2007). *E-business and E-commerce Management: Strategy, Implementation and Practice*. Financial Times Prentice Hall.
- Combe, C. (2012). *Introduction to e-Business: Management and Strategy*. Elsevier.
- Treese G. W. & Stewart L. C. (2003). *Designing Systems for Internet Commerce*. Addison Wesley.
- Trepper, C.H. (2000). *E-Commerce Strategies*. Prentice Hall of India, New Delhi.

Mapping Matrix of Course M-BECOE-027
Table 1: CO-PO Matrix for the Course M-BECOE-027

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-027.1	3	3	3	2	2	3	3	2	3	2	3	2
M-BECOE-027.2	3	3	3	2	2	3	3	2	-	2	2	2
M-BECOE-027.3	3	3	3	2	2	3	3	2	3	2	2	2
M-BECOE-027.4	3	3	3	2	2	3	3	2	-	2	3	2
AVERAGE	**3**	**3**	**3**	**2**	**2**	**3**	**3**	**2**	**3**	**2**	**2. 5**	**2**

Table 2: CO-PSO Matrix for the Course M-BECOE-027

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-027.1	3	2	3	2
M-BECOE-027.2	2	2	3	2
M-BECOE-027.3	3	2	3	3
M-BECOE-027.4	2	2	3	2
AVERAGE	**2.5**	**2**	**3**	**2.25**

M.A. Business Economics 2nd Semester **Paper- M-BECOE-028 (Elective)** **BUSINESS ENVIRONMENT AND LAWS-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

    II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

    III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-028.1	At the end of this course student will be able to summarize the role of the legal system in governing and shaping the climate for business.
M-BECOE-028.2	List and describe the elements of a legally enforceable contract, and explain the consequences of breach of contract.
M-BECOE-028.3	Explain the purpose and characteristics Partnership Act.
M-BECOE-028.4	Summarize Negotiable Instrument Act.

Unit-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.

Reading List

- 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). *Business and Corporate Laws*. S.Chand & Company Limited, New Delhi.

Unit-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.

Reading List

- 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). *Business and Corporate Laws*. S.Chand & Company Limited, New Delhi.

Unit-III

Partnership Act

The Partnership Act, 1932: Nature of Partnership; Relation of partners-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.

Reading List
- 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). *Business and Corporate Laws*. S.Chand & Company Limited, New Delhi.

Unit-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.

Reading List
- 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). *Business and Corporate Laws*. S.Chand & Company Limited, New Delhi.

Mapping Matrix of Course M-BECOE-028
Table 1: CO-PO Matrix for the Course M-BECOE-028

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-028.1	2	2	2	2	2	2	3	2	-	2	2	2
M-BECOE-028.2	2	2	2	2	2	2	3	2	-	2	2	2
M-BECOE-028.3	2	2	2	2	2	3	3	2	2	2	2	2
M-BECOE-028.4	2	2	2	2	2	3	3	2	2	2	2	2
AVERAGE	**2**	**2**	**2**	**2**	**2**	**2.5**	**3**	**2**	**2**	2	2	2

Table 2: CO-PSO Matrix for the Course M-BECOE-028

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-028.1	2	2	2	2
M-BECOE-028.2	2	2	2	2
M-BECOE-028.3	2	2	2	2
M-BECOE-028.4	2	2	2	2
AVERAGE	**2**	**2**	**2**	**2**

M.A. Business Economics 2nd Semester **Paper- M-BECOE-029 (Elective)** **ACCOUNTING FOR BUSINESS ECONOMISTS-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter
   I] Nine Questions will be set in all and students will be required to attempt 5 questions.
  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
 III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-029.1	To learn and compute the accounting ratios.
M-BECOE-029.2	To understand and prepare funds flow and cash flow statements
M-BECOE-029.3	To learn the technique of marginal and standard costing and its applications.
M-BECOE-029.4	To understand and prepare various budgets and learn to do social cost benefit analysis.

Unit-I

Management Accounting: Nature and Scope; Preparation of Cost Sheet; Methods of Financial Analysis; Ratio Analysis: Liquidity, Efficiency, Profitability and Leverage Ratios.

Reading List
- 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.

Unit-II

Funds Flow Statement; Cash Flow Statement.

Reading List
- Anthony A.A., Banker, R.D., Kaplan, R.S., Young, S.M. & Kumar, G.A. (2007). *Management Accounting*. Prentice-Hall of India.
- Lall Nigam, B.M. & Jain, I.C. (2001). *Cost Accounting: An Introduction*. Prentice-Hall of India.

Unit-III

Marginal Costing and CVP Analysis; Differential Cost Analysis; Standard Costing and Variance Analysis.

Reading List
- Khan, M.Y. & Jain, P.K. (2006). *Cost Accounting and Financial Management*. Tata McGraw Hill, New Delhi.
- Williamson, Duncan (1996). *Cost and Management Accounting*. Prentice-Hall of India.

Unit-IV

Budgeting and Budgetary Control System; Activity Based Costing; Social Cost Benefit Analysis.

Reading List
- Williamson, Duncan (1996). *Cost and Management Accounting*. Prentice-Hall of India.
- Dutta, M. (2004). *Cost Accounting: Principles and Practice*. Pearson Education.
- Horngren, C.T., Datar, S.M., Foster, G., Rajan, M.V. & Ittner, C. (2009). *Cost Accounting: A Managerial Emphasis*. Pearson Education.

- Tulsian, P.C. (2008). *Cost Accounting*. Tata McGraw Hill, New Delhi.

Mapping Matrix of Course M-BECOE-029
Table 1: CO-PO Matrix for the Course M-BECOE-029

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-029.1	2	2	2	2	2	2	3	2	-	2	2	2
M-BECOE-029.2	2	2	2	2	2	2	3	2	-	2	2	2
M-BECOE-029.3	2	2	2	2	2	3	3	2	2	2	2	2
M-BECOE-029.4	2	2	2	2	2	3	3	2	2	2	2	2
AVERAGE	**2**	**2**	**2**	**2**	**2**	**2.5**	**3**	**2**	**2**	**2**	**2**	**2**

Table 2: CO-PSO Matrix for the Course M-BECOE-029

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-029.1	2	2	2	2
M-BECOE-029.2	2	2	2	2
M-BECOE-029.3	2	2	2	2
M-BECOE-029.4	2	2	2	2
AVERAGE	**2**	**2**	**2**	**2**

M.A. Business Economics 2nd Semester **Paper- M-BECOE-030 (Elective)** **ECONOMICS OF LABOUR-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

   III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-030.1	To understand the issues in wage determination, productivity and efficiency.
M-BECOE-030.2	To analyze the issues in trade unionism and understand the labour legislation in context of industrial relations.
M-BECOE-030.3	To analyze the social security of workers and state policy in this context.
M-BECOE-030.4	To understand the specific issues of labour market like child labour, gender discrimination, labour reforms and globalization.

Unit-I

Issues in Wage Determination

Non-wage component of labour remuneration; Inflation-wage relationship at micro and macro levels; Productivity and wage relationship; Analysis of rigidity in labour markets; Asymmetric information and efficiency of labour markets in wage determination; National wage policy; Wages and Wage Boards in India; Bonus system and profit sharing.

Reading List

- Desphande L.K. &Sandesara, J.C. (Eds.). (1970).*Wage Policy and Wages Determination in India*. Bombay University Press, Bombay.
- Hicks J.R. (1932).*The Theory of Wages*. Clarendon Press, Oxford.
- Konig, H. (1990). *Economics of Wage Determination*. Springer Berlin Heidelberg.
- Madan, B.K. (1977).*The Real Wages of Industrial Workers in India*. Management Development Institute, New Delhi.
- Mazumdar, D. (1989). Micro-economic Issues of Labour Markets in Developing Countries (EDI Services Paper No. 40). World Bank, Washington D.C.

Unit-II

Industrial Relations

Theories of labour movement — Growth, pattern and structure of labour unions in India, Achievements of labour unions; Causes of industrial disputes and their settlement and prevention mechanism; Role of tripartism; Current trends in collective bargaining; Labour legislation in India.

Reading List

- Breman, J. (1996). *Footloose Labour: Working in India's Informal Economy*. Cambridge University Press.
- Memoria, C.B. (1966). *Labour Problems and Social Welfare in India*. Kitab Mahal, Allahabad.
- Papola, T.S., Ghosh P.P. &Sharma, A.N. (Eds.). (1993). *Labour, employment and Industrial Relations in India*. B.R. Publishing Corporation, New Delhi.
- Punekar, S.D. (1978). *Labour Welfare, Trade Unionism and Industrial Relations*. Himalaya Publishing House, Bombay.
- Sach, J. (1990). Social Conflict and Populist Policies in Latin America. In R. Brunnetta and C.D. Aringa (Eds.), *Labour Relations and Economic Performance*. Macmillan, Basing Stoke.

Unit-III

State and Labour

State and social security of labour — Concept of social security and its evolution; Social assistance and social insurance; Review and appraisal of states policies with respect to social security and labour welfare in India; Receding state and its effect on working of labour markets.

Reading List
- Hajela, P.D. (1998). *Labour Restructuring in India: A Critique of the New Economic Policies*. Commonwealth Publishers, New Delhi.
- Singh V.B. (Ed.). (1970). *Industrial Labour in India*. Popular Prakashan, Bombay.

Unit-IV

Issues of Labour market

Special problems of labour: Child labour, female labour, Discrimination and gender bias in treatment of labour; Labour market reforms — Exit policy, need for safety nets, measures imparting flexibility in labour markets; Second National Commission on Labour; Globalization and labour markets.

Reading List
- Deshpande, S., Standing, G. & Deshpande, L.K. (1998). *Labour Flexibility in a Third World Metropolis*. Commonwealth Publishers, New Delhi.
- Hauseman, S. (1991). *Industrial Restructuring with Job Security*. Harvard University Press, Cambridge.
- MHRD, GOI (1987). *Shram Shakti: Report of the National Commission on Self-employed Women and Women Workers in the Informal Sector*. Ministry of Human Resources Development, New Delhi.
- Misra, L. (2000). *Child Labour in India*. Oxford University Press, New Delhi.
- Riveros, L. (1990). *Labour Market Policies and Labour Market Reforms in Socialist Economies*. World Bank, Washington D.C.
- Standing G. & Tokman, V. (Eds.). (1991). *Towards Social Adjustment*. ILO, Geneva.
- Venkata Ratnam, C.S. (2001). *Globalization and Labour-Management Relations: Dynamics of Change*. Sage Publications/Response Books, New Delhi.

Mapping Matrix of Course M-BECOE-030
Table 1: CO-PO Matrix for the Course M-BECOE-030

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-030.1	3	3	3	2	3	2	2	2	2	2	3	3
M-BECOE-030.2	3	3	3	2	2	2	2	2	2	2	3	2
M-BECOE-030.3	3	3	3	2	2	2	2	2	2	2	3	2
M-BECOE-030.4	3	3	3	2	2	2	2	2	2	2	3	2
AVERAGE	3.00	3.00	3.00	2	2.25	2.00	2	2.00	2	2	3.00	2.25

Table 2: CO-PSO Matrix for the Course M-BECOE-030

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-030.1	2	2	2	2
M-BECOE-030.2	2	2	2	2
M-BECOE-030.3	2	2	2	2
M-BECOE-030.4	3	2	2	2
AVERAGE	2.25	2	2.00	2

M.A. Business Economics 2nd Semester **Paper- M-BECOE-031 (Elective)** **ECONOMICS OF BANKING-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter
    I] Nine Questions will be set in all and students will be required to attempt 5 questions.
    II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
    III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-031.1	To understand various theories of Value of Money critically and their present relevance as well as empirical evidence.
M-BECOE-031.2	To comprehend various segments (and reforms therein) of financial markets like NBFIs, Mutual funds, LIC, Investment companies; venture capital along with few regulatory institutions like SEBI and IRDA to come out with some policy suggestions also.
M-BECOE-031.3	To grasp monetary policy facets and its role in a developing countries like India in its present context with future implications.
M-BECOE-031.4	Understand the various aspects related to inflation and trade cycles in a critical manner and interpret their repercussions.

Unit-I

Macroeconomic Theories 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.

Reading List
- Dwivedi, D.N. (2010). *Macroeconomics: Theory and Policy*. Tata McGraw Hill, New Delhi.
- Handa, J. (2009). *Monetary Economics*. Routledge, London.
- Goldfield, S.M. & Chandlar, L. V. (1981). *The Economics of Money & Banking*. Harper & Row.
- Mishkin, F.S. (2016). *The Economics of Money, Banking and Financial Markets*. Pearson Education.

Unit-II

The Indian Commercial Banking
Functions and growth of financial institutions in India; Recent reforms in banking sector in India; Non-bank financial intermediaries (NBFI's); The currency and credit schools; Role of Non-Banking financial institutions in India; Mutual funds, LIC, Investment companies;
Venture capital: Role of regulatory authorities: SEBI and IRDA; Financial sector reforms in India.

Reading List
- 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.

Unit-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; Monetary and credit planning: Monetarist and Keynesian views on monetary policy.

Reading List

- Dwivedi, D.N. (2010). *Macroeconomics: Theory and Policy*. Tata McGraw Hill, 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.
- Matthews, K. & Booth, P. (Eds.). (2006). *Issues in Monetary Policy: The Relationship between Money and the Financial Markets*. John Wiley & Sons Limited, England.
- Ramachandran, P.P. (2016). *RBI: An Anecdotal History*. Academic Foundation.
- Rangarajan, C. (2002). *Leading Issues in Monetary Policy*. Bookwell Publishers.

Unit-IV

Theories of Inflation and Business Cycles

Inflation: Measurement and types of Inflation, Demand and Supply side Inflation, Causes and effects of Inflation, Methods to Check Inflation, stagflation and Anti-Inflation Policy, Inflation and Indian Economy; Inflation and Unemployment: Philips curve, The Relationship between Inflation and Unemployment, Long run Phillips Curve; Business Cycles: Meaning and Nature; Theories of trade Cycle: Schumpeter, Keynesian, Samuelson and Hicks; Non-Monetary theories of business cycles.

Reading List

- Dwivedi, D.N. (2010). *Macroeconomics: Theory and Policy*. Tata McGraw Hill, New Delhi.
- Gali, Jordi (2015). *Monetary Policy, Inflation and the Business Cycle*. Princeton University Press.
- Jha, Raghbendra (2008). *Contemporary Macroeconomic Theory and Policy*. Wiley Eastern Limited, New Delhi.

Mapping Matrix of Course M-BECOE-031
Table 1: CO-PO Matrix for the Course M-BECOE-031

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-031.1	3	3	3	3	2	2	2	3	2	2	3	2
M-BECOE-031.2	3	3	3	3	2	2	2	3	2	2	3	2
M-BECOE-031.3	3	3	3	3	2	2	2	3	2	2	3	2
M-BECOE-031.4	3	3	3	3	2	2	3	3	2	2	3	2
AVERAGE	**3**	**3**	**3**	**3**	**2**	**2**	**2.25**	**3**	**2**	**2**	**3**	**2**

Table 2: CO-PSO Matrix for the Course M-BECOE-031

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-031.1	3	2	3	3
M-BECOE-031.2	3	2	3	3
M-BECOE-031.3	3	2	3	3
M-BECOE-031.4	3	2	3	3
AVERAGE	**3**	**2**	**3**	**3**

M.A. Business Economics 2nd Semester **Paper- M-BECOE-032 (Elective)** **ECONOMICS OF INSURANCE-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

  III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-032.1	Understand, frame and critically analyze wealth accumulation planning and retirement planning and their various products.
M-BECOE-032.2	Understand the logic of various types of insurance and insurance business in India.
M-BECOE-032.3	Use the standard models of risk and insurance to interpret and analyze real problems in risk and insurance.
M-BECOE-032.4	Understand the role of insurance in development process along with problems of regulation of this sector.

Unit-I

Theory of Social Insurance

Social Insurance- Importance, need, Branches; Requirements for Efficient Social Insurance; Macroeconomic Impacts of Social Insurance; Introduction to life Insurance: Characteristics, Types, Products, Classification; Actuarial basis of Life Insurance; General provisions of life insurance contracts; Special Life insurance forms.

Reading List

- Aaron, H. (1966). The social insurance paradox. *Canadian Journal of Economics and Political Science*, 32, 371–374.
- Zweifel, Peter & Eisen, Roland. (2012). *Insurance Economics*. Springer.

Unit-II

Issues in Retirement Planning

Essentials of individual retirement planning; Analysis of retirement; Income needs; Retirement planning strategies; Investing for retirement, Pension plans; Basic principles of pension plans; Pension plans in India; Estate planning - process and tools; Life insurance for estate liquidity.

Reading List

- Zweifel, Peter & Eisen, Roland. (2012). *Insurance Economics*. Springer.

Unit-III

Insurance Planning and Pricing

Wealth accumulation planning; Life cycle planning; Planning for accumulation; Micro-insurance products. Weather insurance in Agriculture, Livelihood Risk Management using Crop Insurance; Index Based Insurance; Valuation of insurance products.

Reading List

- Zweifel, Peter & Eisen, Roland. (2012). *Insurance Economics*. Springer.

Unit-IV

Introduction to Various Forms of Insurance

Fire Insurance; Marine Insurance; Property and Liability Insurance; Rural Insurance; Motor Insurance;

Miscellaneous Insurance.

Reading List
- Zweifel, Peter & Eisen, Roland. (2012). *Insurance Economics*. Springer.
- Mishra, M.N. & Mishra, S.B. (2016). *Insurance: Principles and Practice*. S. Chand Publishing, New Delhi.

Mapping Matrix of Course M-BECOE-032
Table 1: CO-PO Matrix for the Course M-BECOE-032

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-032.1	3	2	3	2	2	2	3	2	-	2	3	2
M-BECOE-032.2	3	2	3	2	2	2	3	2	-	2	3	-
M-BECOE-032.3	3	2	3	2	2	3	3	2	2	2	3	2
M-BECOE-032.4	3	2	3	2	2	3	3	2	2	2	3	2
AVERAGE	**3**	**2**	**3**	**2**	**2**	**2.5**	**3**	**2**	2	2	**3**	2

Table 2: CO-PSO Matrix for the Course M-BECOE-032

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-032.1	2	2	2	2
M-BECOE-032.2	2	2	2	2
M-BECOE-032.3	2	2	2	2
M-BECOE-032.4	2	2	2	2
AVERAGE	**2**	**2**	**2**	**2**

MA BUSINESS ECONOMICS PART-II SEMESTER-III (W.E.F. 2021-22)

PAPER CODE	NOMENCLATURE	No. of Credit	Teaching Scheme Hrs/Week			Examination Scheme (Marks & Time)			
			L	T	P	External Marks	Internal Assessment	Total	Time
CORE COURSES									
M-BECOC -011	International Trade And Finance-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -012	Indian Economic Policy-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -013	Economics of Growth and Development-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC -014	Seminar	2		½ hrs/G	-	-	50	50	-----
Elective Courses- Choose Any One of the Following Elective Groups									
Group-I Quantitative Economics									
M-BECOE -033	Econometrics-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -034	Mathematical Economics-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-II Financial Economics									
M-BECOE -035	Economics of Corporate Finance-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -036	Investment and Portfolio Analysis	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-III Resources Economics									
M-BECOE -037	Economics of Environment & Social Sector-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -038	Demography-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-IV Sectoral Economics									
M-BECOE -039	Agriculture Economics-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -040	Industrial Economics-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-V Economics of Taxation									
M-BECOE -041	Direct Taxes-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -042	Theory of Taxation	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-VI Data Analytics									
M-BECOE -043	Business Research Methods	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE -044	Data Analytical Techniques-I	4	4	½ hrs/G	-	80	20	100	3 Hrs.
OESS*(11 to 20)*	Same Note as in Sem. II	2	2	½ hrs/G	-	50	-	50	2 Hrs.
Total		24	20	3			600		

Note: Students are required to select any one group of two (02) elective papers. The students will select the same corresponding papers in Semester IV. However, the number of options offered is subject to the availability of faculty.

Compulsory Credits: 14
Optional Credits: 10

M.A. Business Economics 3rd Semester **Paper- M-BECOC-011 (Compulsory)** **INTERNATIONAL TRADE AND FINANCE-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter
>   I] Nine Questions will be set in all and students will be required to attempt 5 questions.
>   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
>   III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOC-011.1	Understand, explain, compare and critically evaluate the classical and neo classical trade theories.
M-BECOC-011.2	Learn, compare and critically evaluate the new trade theories and their relevance in today's scenario.
M-BECOC-011.3	Understand the pattern, scope, potential and related issues of trade in services.
M-BECOC-011.4	Understand the theories of protection and develop the ability to appreciate the economic integration and its impacts.

Unit – I

Classical Trade Theories
Mercantilism; Theories of Absolute and Comparative Advantage (Real and opportunity Cost approaches); Gains from Trade (Offer Curve Analysis), Term of Trade and its Computation.

Neo Classical Trade Theories
Heckscher-Ohlin Model, Factor Price Equalization Theorem, Empirical Verification of H.O. theory, Effect of Growth on Trade: Immiserating Growth, Ryzbczynski Theorem.

Reading List
- 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.
- Jhonson, H. (1958).*International trade & economic growth*. Harvard University Press, Cambridge.
- Lindert, P. H. &Pugel, T. A. (2008).*International economics*.McGraw-Hill.

Unit – II

New Trade Theories
Kravis and Linder Theory of Trade, Posner's Imitation Gap, Vernon's Product Life Cycle Theory, Intra-Industry Trade: Causes, emergence and measurement; intra industry Trade models: Neo. H.O Models, Neo-Chamberlin models, Neo-Hotelling models; Oligopolistic models of Intra Industry Trade: Brander-Krugman Model, Reciprocal Dumping Models, Gravity Model, Porter Diamond Model, Empirical work in intra-industry Trade: Balassa Index, Grubel-Lloyd Index, Acquino Index, Bergstrand Index.

Reading List
- Borkakoti, J. (1998). *International trade: Causes & Consequences*. MacMillan, London.
- Helpman, E. & Krugman, Paul R. (1989). *Trade policy and market structure*. The MIT Press.
- Krugman, Paul R. (1994). *Rethinking international trade*. MIT Press.
- Vernon, Raymond (1966). International Investment and International Trade in the Product Cycle. *Quarterly Journal of Economics*, 80(2), 190-207.

Unit – III

Trade in Services
Emerging pattern of services trade-The scope and potential of services trade in developing countries-GATS; Trade in Factors of Production and in Intermediate Goods-Capital inflow and welfare; Emigration versus

capital inflow-Fragmentation, Outsourcing and trade. Trade vs non-trade goods.

Reading List
- Cattaneo, O., Engman, M., Saez, S. & Stern, Robert M. (Eds.). (2010). *International Trade in Services: New Trends and Opportunities for Developing Countries*. The World Bank.
- Findlay, C. & Warren, T. (Eds.). (2013). *Impediments to Trade in Services: Measurement and Policy Implications.* Routledge, New York.
- Mattoo, A., Stern, Robert M. & Zanini, Gianni (Eds.).(2008). *A Handbook of International Trade in Services.* Oxford University Press.
- Panizzon, M., Pohl, N. & Sauve, P. (Eds.). (2008). *GATS and the Regulation of International Trade in Services*. Cambridge University Press.

Unit – IV

Trade Policy

Free trade and Protection; Tariffs, Quotas and Non-Tariff barriers; Effects of tariff - Metzier Paradox, Optimum Tariff, Effective rate of Protection, Quotas and other non-tariff barriers-technical/quality/safety standards (regulations); 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.

Reading List
- Aggarwal, M. R. (1979). *Regional Economic Cooperation in South Asia*. S. Chand and Co.
- Bhagwati, Jagdish (1969). *Trade tariffs & growth*. The MIT Press.
- Bhalla, & Bhalla, (1997). *Regional Blocs*. Palgrave MacMillan.
- Bhandari, S. (1998). *WTO & Developing Countries*. Deep & Deep Publications.
- Corden (1971). *Theory of Protection*. Clarendon Press, Oxford.
- Greenaway, David (1983). *International trade policy: From Tariffs to the New Protectionism*. Macmillan Publishers Limited, London.

Mapping Matrix of Course M-BECOC-011
Table 1: CO-PO Matrix for the Course M- BECOC-011

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-011.1	3	3	3	3	2	2	2	-	-	-	3	3
M-BECOC-011.2	3	3	3	3	3	2	2	-	-	-	3	3
M-BECOC-011.3	3	3	3	3	3	3	3	-	-	-	3	3
M-BECOC-011.4	3	3	3	3	3	3	3	-	-	-	3	3
AVERAGE	**3**	**3**	**3**	**3**	**2.25**	**2.5**	**2.5**	**-**	**-**	**-**	**3**	**3**

Table 2: CO-PSO Matrix for the Course M- BECOC-011

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-011.1	3	3	3	2
M-BECOC-011.2	3	3	3	2
M-BECOC-011.3	3	3	3	2
M-BECOC-011.4	3	3	3	2
AVERAGE	**3**	**3**	**3**	**2**

M.A. Business Economics 3rd Semester **Paper- M-BECOC-012 (Compulsory)** **INDIAN ECONOMIC POLICY-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

   III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOC-012.1	Peep into the history of economic development and critically evaluate the trends in National Income in India.
M-BECOC-012.2	Understand the development of human and physical capital formation in India.
M-BECOC-012.3	Utilize the detailed skills and techniques to address the problems of Indian economy like poverty, inequality, unemployment.
M-BECOC-012.4	Understand the trends in Indian public finances.

Unit – I

Evolution of Indian Economic Thought

Indian Economy during the planning era; Planning Commission to NITI Aayog; Sustainable Development Goals and Indian Economy; Trends of national income in India.

Reading List

- Kapila, Uma (2014-2015). *Indian Economy since independence*. Academic Foundation, New Delhi.
- Lokanathan, V. (2018). *A History of Economic Thought*. S. Chand & Co. Ltd.,Chandigarh.
- Mishra, S. K. & Puri, V.K. (2020). *Indian Economy*. Himalaya Publishing House, New Delhi.
- Ministry of Finance (2020). *Economic Survey*. Government of India.
- Roy, Tirthankar (2015). *The Economic History of India 1857-1947*. Oxford University Press.

Unit-II

Strategy of balanced regional development

Capital formation in India; India's Development Experience; Population Policy 2000; Natural Resources and Problem of sustainable economic development; Issues and policies in financing infrastructure development in India.

Reading List

- Datt, G. & Mahajan, A. (2020). *Datt & Sundharam's Indian Economy*. S. Chand Publishing House.
- Dhar, P.K. (2020). *Indian Economy: Its Growing Dimensions*. Kalyani Publishers, New Delhi.
- Ministry of Finance (2020). *Economic Survey*. Government of India.
- Nachimuthu, V. (2009). *Regional Economic Disparities in India*. New Century Publications.
- Venugopal K.R. (2007). *Growth, imbalance and Indian Economy*. I.K. International Publishing House Pvt.-Ltd., New Delhi.

Unit-III

Structural change in Indian Economy

Social Sector Reforms: Education, Health, Housing; Poverty, Inequality and Unemployment in India; MGNREGA; Tax Reforms and Policy; Parallel Economy in India.

Reading List

- 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.
- Dwivedi, Rishi Muni (2011).*Energy Sources and Policies in India*. New Century Publication, New Delhi.
- Kapila, Uma (2014-2015). *Indian Economy since independence*. Academic Foundation, New Delhi.
- Mahajan, Madhur M. (2019).*Indian economy*. Pearson Education, New Delhi.
- Meier, Gerald M. (1987).*Pioners in Development*. Oxford University Press, New Delhi.
- Ministry of Finance (2020). *Economic Survey*. Government of India.
- Mishra, S. K. & Puri, V.K. (2020). *Indian Economy*. Himalaya Publishing House, New Delhi.

Unit-IV

Indian Public Finance

Budgetary Policy in India since 1951 (a Brief Review); Trends in the Expenditure of the Central Government; Sources of Tax Revenue of the Central and State Governments; Extent, Effects and Limit of Deficit Financing in India; Trends and Composition of Public Debt in India; Recommendations of the Fourteenth Finance Commission; Centre/State Conflict on Finances.

Reading List
- Datt, G. & Mahajan, A. (2020). *Datt & Sundharam's Indian Economy*. S. Chand Publishing House.
- Dwivedi, Rishi Muni (2011).*Energy Sources and Policies in India*. New Century Publication, New Delhi.
- Ministry of Finance (2020). *Economic Survey*. Government of India.
- Sinha, Yashwant & Srivastava, Vinay K. (2017). *The Future of Indian Economy: Past Reforms and Challenges ahead*. Rupa Publications, New Delhi.

Mapping Matrix of Course M- BECOC-012
Table 1: CO-PO Matrix for the Course M- BECOC-012

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-012.1	3	2	3	2	2	2	3	2	-	-	2	2
M-BECOC-012.2	3	3	3	2	2	2	3	2	-	-	2	2
M-BECOC-012.3	3	2	3	3	2	3	3	2	-	-	2	2
M-BECOC-012.4	3	3	3	3	2	3	3	2	-	-	2	2
AVERAGE	3	2.5	3	2.5	2	2.5	3	2	-	-	2	2

Table 2: CO-PSO Matrix for the Course M-BECOC-012

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-012.1	3	2	2	2
M-BECOC-012.2	3	2	2	2
M-BECOC-012.3	3	2	2	2
M-BECOC-012.4	3	2	2	2
AVERAGE	3	2	2	2

M.A. Business Economics 3rd Semester **Paper- M-BECOC-013 (Compulsory)** **ECONOMICS OF GROWTH AND DEVELOPMENT-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter
   I] Nine Questions will be set in all and students will be required to attempt 5 questions.
  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
 III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOC-013.1	To understand, analyze and interpret the nature of growth & development with a view to measure and mark its trajectory.
M-BECOC-013.2	To analyse and understand the classical growth models, role of innovations and stages of growth with their historical origins and role.
M-BECOC-013.3	To analyse and understand the neo-classical and Cambridge growth models with mathematical treatment.
M-BECOC-013.4	To analyse and understand the new growth theory with focus on human resource development, knowledge, technical progress.

Unit I

Concepts & Measurement of Economic Development
Economic growth, Economic development and Sustainable development; MDGs and SDGs. Historical perspective of Economic Growth and its relevance; Structural diversity and common characteristics of developing nations.
Measuring Development: Income Measures, Basic Needs Approach, PQLI, HDI and Capabilities Approach; Goulet's core values of development.
Poverty, Inequality and Development: Measurement, Impact and Policy options.

Reading List
- 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.
- Schultz, Paul T. & Strauss, J. (Eds.).(2008).*Handbook of Development Economics, Vol. 3*. Elsevier, Amsterdam.
- Sen, A.K. (Ed.). (1990).*Growth Economics*. Penguin, Harmondsworth.

Unit-II

Theories of Growth and Development
Contributions of Adam Smith, Ricardo, Karl Marx and Schumpeter, Rostow's Theory of Stages of Economic Growth.

Reading List
- Adelman, I. (1961). Theories of Economic Growth and Development, StanfordUniversity Press, Stanford.
- Higgins, B. (1959). *Economic Development*. W.W. Norton, New York.
- Kindleberger, C.P. (1977).*Economic Development*. McGraw Hill, New York.
- Meier, G.M. & Rauch, J.E. (2005).*Leading Issues in Economic Development*. OxfordUniversity Press, New Delhi.
- Thirlwal, A.P. (1999). *Growth and Development*. Macmillan, U.K.
- Todaro, M.P. & Smith, S.C. (2003). *Economic Development*. Pearson Education, Delhi.

Unit-III

Growth Models

Harrod and Domar: Instability of equilibrium; Neo Classical Growth Models: Solow and Meade; Cambridge Growth Models: Joan Robinson, Kaldor and Pasinetti.

Reading List
- Jones, H.G. (1975).*An Introduction to Modern Theories of Economic Growth*. Nelson, London.

Unit-IV

New Growth Theory

Production Function Approaches: Learning by Doing; Total Factor Productivity; Ramsay's rule and optimal saving; Golden Rule of Accumulation; Technical Progress: Hicks and Harrod; Endogenous Growth Models (Romer, Uzawa-Lucas, AK).

Reading List
- Brown, M. (1966). *On the Theory and Measurement of Technical Change*. Cambridge University Press, Cambridge.
- Chakravarti, S. (1982). *Alternative Approaches to the Theory of Economic Growth*. Oxford University Press, New Delhi.
- 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.

Mapping Matrix of Course M-BECOC-013
Table 1: CO-PO Matrix for the Course M-BECOC-013

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-013.1	3	3	3	3	3	2	2	3	2	2	2	3
M-BECOC-013.2	3	2	3	2	2	2	2	3	2	2	2	3
M-BECOC-013.3	3	2	3	2	2	2	2	3	2	2	2	2
M-BECOC-013.4	3	3	3	3	3	2	2	3	2	2	2	2
AVERAGE	3.00	2.50	3.00	2.50	2.50	2.00	2	3.00	2.00	2	2.00	2.50

Table 2: CO-PSO Matrix for the Course M-BECOC-013

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-013.1	3	3	3	2
M-BECOC-013.2	3	3	2	2
M-BECOC-013.3	3	3	2	2
M-BECOC-013.4	3	3	2	2
AVERAGE	3.00	3.00	2.25	2

M.A. Business Economics 3rd Semester	Total Credit: 4
GROUP-I QUANTITATIVE ECONOMICS	Time: 3 Hrs.
Paper-M-BECOE-033 (Elective)	Marks: 100
ECONOMETRICS-I	External : 80
	Internal : 20

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

    II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

    III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-033.1	Able to estimate and interpret linear regression models.
M-BECOE-033.2	Explain the problems that arise when the assumptions of linear regression model are not valid.
M-BECOE-033.3	Develop solutions to the problems that results from violating the assumptions.
M-BECOE-033.4	Understand the tools of econometrics and applying them in practice.

Unit – I

Introduction to Econometrics

Definition, Scope and Methodology of Econometrics, Simple Linear Regression Model; OLS Estimates and Their Properties. Functional forms of Regression Models, Growth Rates.

Reading List

- Gujarati, D.N. (1995). *Basic Econometrics*. McGraw Hill, New Delhi.
- 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.
- Pindyck R.S. & Rubinfield, D.L. (1976). *Econometric Models and Economic Forecasts***.** McGraw Hill Kogakusha Tokyo.

Unit – II

Multiple Regression Analysis

General Linear regression Model, Maximum Likelihood Estimates and their properties. R^2 and adjusted R^2; Significance Testing of Parameters in Multiple Regression Analysis.

Reading List

- 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.
- 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.
- Koutsoyiannis, A. (1977).*Theory of Econometrics*. The Macmillan Press Ltd. London.
- Maddala G.S. (Ed.) (1993).*Econometric Methods and application*. Aldershot U.K.
- Theil H. (1981).*Introduction to Econometrics***.** Prentice Hall of India, New Delhi.

Unit – III

Econometric Problems–I

Nature, Test, Consequences and remedial steps of problem of Heteroscedasticity, Multicollinearity and Autocorrelation; Generalized Least Square.

Reading List
- Amemiya, T. (1985). *Advanced Econometrics*. Harvard University Press, Cambridge, Mass.
- Baltagi, B.H. (1988). *Econometrics*. Springer, New York.
- Goldberger, A.S. (1998). *Introductory Econometrics*. Oxford University Press, New York.
- Gujarati, D.N. (1995). *Basic Econometrics*. McGraw Hill, New Delhi.
- Johnston J. (1991). *Econometric Methods*. MCGraw Hall Book Co. London.
- Kmenta J. (1998). *Elements of Econometrics*. University of Michigan Press, NewYork.
- Koutsoyiannis, A. (1977). *Theory of Econometrics*. The Macmillan Press Ltd. London.

Unit – IV

Econometric Problems–II
Types of Specification Errors, Errors of Measurement.

Simultaneous Equation Models
The Simultaneous Equation bias and Consistency of OLS Estimators; The Identification Problem; Rules of Identification- Order and Rank Conditions.

Reading List
- Gujarati, D.N. (1995). *Basic Econometrics*. McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1977). *Theory of Econometrics*. The Macmillan Press Ltd. London.
- Madnani, G.M.K. (2004). *Introduction to Econometrics: Principles and Applications*. Oxford & IBH Publishing Co. Pvt. Ltd. New Delhi.

Mapping Matrix of Course M-BECOE-033
Table 1: CO-PO Matrix for the Course M-BECOE-033

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-033.1	3	2	3	3	3	2	3	2	-	-	2	3
M-BECOE-033.2	3	3	3	3	3	2	3	2	-	-	2	3
M-BECOE-033.3	3	2	3	3	3	3	3	2	-	-	2	3
M-BECOE-033.4	3	3	3	3	3	3	3	2	-	-	2	3
AVERAGE	**3**	**2.5**	**3**	**3**	**3**	**2.5**	**3**	**2**	**-**	**-**	2	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-033

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-033.1	3	2	2	2
M-BECOE-033.2	3	2	2	2
M-BECOE-033.3	3	3	2	2
M-BECOE-033.4	3	3	2	2
AVERAGE	**3.00**	**2.5**	**2**	**2**

M.A. Business Economics 3rd Semester **GROUP-I QUANTITATIVE ECONOMICS** **Paper-M-BECOE-034 (Elective)** **MATHEMATICAL ECONOMICS-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter
   I] Nine Questions will be set in all and students will be required to attempt 5 questions.
  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
 III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-034.1	Understand, explain, solve and design different forms of utility functions and demand functions; and some recent concepts related to theory of demand using mathematical derivations and optimization.
M-BECOE-034.2	Understand, explain, solve and design production functions, cost function, efficiency and producer behaviour using mathematical tools.
M-BECOE-034.3	Understand, estimate, interpret and forecasts the time path of any variable and comprehend the behavior of monopolist, monopsonist and the firm working under monopolistic competition by utilizing mathematical derivations.
M-BECOE-034.4	Compute and interpret equilibrium price, output and profits of firms under Oligopoly using differential calculus.

Unit-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.

Reading List
- Allen, R.G.D. (1972). *Mathematical Economics*. Macmillan, London.
- Allen R.G.D. (2002). *Mathematical Analysis for Economists.* Macmillan Press and ELBS, London.
- Chiang, A.C.(2006). *Fundamental Methods of Mathematical Economics.* McGraw Hill, New York.
- Chung, J.W. (1994). *Utility and Production: Theory and Applications*. Basil Blackwell, London.
- Henderson, J. M. & Quandt, R.E. (2003). *Microeconomic Theory: A Mathematical Approach*. McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1979). *Modern Microeconomics*. Macmillan Press, London.

Unit-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; Growth Accounting Equation; Methods for measuring productivity and efficiency.

Reading List
- Chiang, A.C. (1999). *Elements of Dynamic Optimization*. Waveland Press Inc., Long Grove, Illinois.
- Henderson, J. M. & Quandt, R.E. (2003). *Microeconomic Theory: A Mathematical Approach*. McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1979). *Modern Microeconomics*. Macmillan Press, London.

Unit-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.

Reading List

- Chiang, A.C. (2006). *Fundamental Methods of Mathematical Economics.* McGraw Hill, New York.
- Henderson, J. M. & Quandt, R.E. (2003). *Microeconomic Theory: A Mathematical Approach.* McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1979). *Modern Microeconomics.* Macmillan Press, London.

Unit-IV

Classical Oligopoly and Managerial Theories of Firm

Duopoly and oligopoly: Cournot's Model; Stackelberg's model; Kinked demand curve; Joint profit maximization; Price leadership model; Bilateral monopoly; Baumol's, Willamson's, and Marris's models of firm.

Reading List

- Alhabeeb, M.J. & Joe Moffitt, L. (2014). *Managerial Economics: A Mathematical Approach*. John Wiley & Sons.
- Henderson, J. M. & Quandt, R.E. (2003). *Microeconomic Theory: A Mathematical Approach*. McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1979). *Modern Microeconomics*. Macmillan Press, London.
- Lancaster, K. (2012). *Mathematical Economics*. Dover Publications Inc., New York.

Mapping Matrix of Course M-BECOE-034
Table 1: CO-PO Matrix for the Course M-BECOE-034

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-034.1	3	3	3	2	3	2	3	-	-	-	3	3
M-BECOE-034.2	3	3	3	2	3	2	3	-	-	-	3	3
M-BECOE-034.3	3	3	3	2	3	2	3	-	-	-	3	3
M-BECOE-034.4	3	3	3	2	3	2	3	-	-	-	3	3
AVERAGE	**3**	**3**	**3**	**2**	**3**	**2**	**3**	-	-	-	**3**	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-034

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-034.1	3	3	2	3
M-BECOE-034.2	3	3	2	3
M-BECOE-034.3	3	3	2	3
M-BECOE-034.4	3	3	2	3
AVERAGE	**3**	**3**	**2**	**3**

	Total Credit: 4
M.A. Business Economics 3rd Semester	Time: 3 Hrs.
GROUP-II FINANCIAL ECONOMICS	Marks: 100
Paper-M-BECOE-035 (Elective)	External : 80
ECONOMICS OF CORPORATE FINANCE–I	Internal : 20

Note For the paper Setter

I] Nine Questions will be set in all and students will be required to attempt 5 questions.

II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-035.1	Understand, apply and solve the nature of financial economics, time value of money problems and its applications in investment evaluation criteria.
M-BECOE-035.2	Understand and compute various costs of capital and design an optimal capital structure.
M-BECOE-035.3	Understand theoretically how dividend decisions are taken in corporate sector and design a dividend policy for a firm.
M-BECOE-035.4	Understand the management of working capital and its components, and solve problems in relation thereto.

Unit-I

Finance and Capital Budgeting

Nature and Scope of Financial Economics; Goals of Finance; Economics of capital Budgeting ; Investment Criteria; Estimation of project Cash Flows; Risk Analysis in Capital Budgeting; Computation of Cost of Capital.

Reading List

- Chandra, Prasanna (2011). *Financial Management: Theory and Practice.* Tata McGraw Hill.
- Harold Bierman, Jr. & Smidt, Seymour (2007). *The Capital Budgeting Decision: Economic Analysis of Investment Projects.* Routledge.
- Van Horne, J.C. (2002). *Financial Management and Policy.* Pearson Education.

Unit-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.

Reading List

- Chandra, Prasanna (2011). *Financial Management: Theory and Practice.* Tata McGraw Hill.
- Kent Baker, H. & and Martin, Gerald S. (2011). *Capital Structure and Corporate Financing Decisions.* Wiley Publishers.
- Van Horne, J.C. (2002). *Financial Management and Policy.* Pearson Education.

Unit-III

Dividends and Working Capital

Economics of Dividends – Walter Model, Gordon Model, Modigliani and Miller Model; Economics of Working Capital: Estimation of Working Capital, Financing of working Capital.

Reading List
- Brittain, J.A. (1978).*Corporate Dividend Policy.* Brookings Institution, USA.
- Chandra, Prasanna (2011). *Financial Management: Theory and Practice.* Tata McGraw Hill.
- Mehta, D. R. (1974). *Working Capital Management.* Prentice- Hall.
- Van Horne, J.C. (2002). *Financial Management and Policy.* Pearson Education.

Unit-IV

Cash, Receivables and Inventory

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

Reading List
- Chandra, Prasanna (2011). *Financial Management: Theory and Practice.* Tata McGraw Hill.
- Mehta, D. R. (1974). *Working Capital Management.* Prentice- Hall.
- Van Horne, J.C. (2002). *Financial Management and Policy.* Pearson Education.

Mapping Matrix of Course M-BECOE-035
Table 1: CO-PO Matrix for the Course M-BECOE-035

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-035.1	3	3	3	3	3	3	3	3	-	-	-	3
M-BECOE-035.2	3	3	3	3	3	3	3	3	-	-	-	3
M-BECOE-035.3	3	3	3	3	3	3	3	3	-	-	-	3
M-BECOE-035.4	3	3	3	3	3	3	3	3	-	-	-	3
AVERAGE	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**-**	**-**	**-**	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-035

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-035.1	2	3	3	2
M-BECOE-035.2	2	3	3	2
M-BECOE-035.3	2	3	3	2
M-BECOE-035.4	2	3	3	2
AVERAGE	**2**	**3**	**3**	**2**

M.A. Business Economics 3rd Semester	Total Credit: 4
GROUP-II FINANCIAL ECONOMICS **Paper-M-BECOE-036 (Elective)** **INVESTMENT AND PORTFOLIO ANALYSIS**	Time: 3 Hrs. Marks: 100 External : 80 Internal : 20

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

   III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-036.1	Understand the risk and return relationship and compute yields of bond portfolio.
M-BECOE-036.2	Understand and apply the portfolio construction, and asset pricing.
M-BECOE-036.3	Understand and apply the fundamental and technical analysis, and efficiency tests of stock markets.
M-BECOE-036.4	Understand the concept and valuation of derivatives and design hedging strategies.

Unit-I

Investment Analysis

The investment environment; Asset Classes and Financial Instruments; Risk- Return Analysis; Risk Aversion and Capital Allocation to Risky Assets; Bond Prices and Yields; Term Structure of interest Rates, Managing Bond Portfolio.

Reading List
- Bodie, Z., Kane, A. & Marcus, A.J. (2017). *Investments*. McGraw Hill Education.
- Reilly, F.K. & Brown, K.C. (2012). *Investment Analysis and portfolio management*. South-Western Cengage Learning.

Unit-II

Portfolio Optimization

Equity valuation Models; Portfolio Analysis; Markowitz Model, Sharpe Index Model, Capital asset pricing Model, Arbitrage Pricing Theory.

Reading List
- Bodie, Z., Kane, A. & Marcus, A.J. (2017). *Investments*. McGraw Hill Education.
- Grinold, R.C. & Kahn, R.N. (1999). *Active portfolio Management*. McGraw Hill.
- Reilly, F.K. & Brown, K.C. (2012). *Investment Analysis and portfolio management*. South-Western Cengage Learning.

Unit-III

Security Analysis and Theory of Options

Fundamental and Technical Security Analysis; Efficient market Theory; Introduction to Option markets; Option Valuation- Binomial Option pricing, Black – Scholes Option Pricing Model.

Reading List
- Hull, J. (1993). *Options, Futures and Other Derivative Securities*. Prentice Hall.
- Kolb, Robert (1996). *Financial Derivatives*. Wiley.

- Reilly, F.K. & Brown, K.C. (2012). *Investment Analysis and portfolio management*. South-Western Cengage Learning.

Unit-IV

Options Hedging, Future Markets and Mutual Funds

Options Hedging strategies – Delta, Gamma, Theta, Vega and Rho; Futures Markets Trading and valuation; Portfolio performance Evaluation; Economics of Mutual Funds - Sharpe, Treynor and Jensen Performance Index.

Reading List

- Reilly, F.K. & Brown, K.C. (2012). *Investment Analysis and portfolio management*. South-Western Cengage Learning.

Mapping Matrix of Course M-BECOE-035
Table 1: CO-PO Matrix for the Course M-BECOE-036

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-036.1	3	3	2	2	3	3	2	3	2	-	-	3
M-BECOE-036.2	3	3	3	2	3	2	2	3	2	-	-	3
M-BECOE-036.3	3	3	3	2	3	2	2	3	2	-	-	3
M-BECOE-036.4	3	3	3	2	3	2	2	3	2	-	-	3
AVERAGE	**3**	**3**	**2.75**	**2**	**3**	**2.25**	**2**	**3**	2	**-**	-	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-036

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-036.1	2	3	3	2
M-BECOE-036.2	2	3	3	2
M-BECOE-036.3	2	3	3	2
M-BECOE-036.4	2	3	3	2
AVERAGE	**2**	**3**	**3**	**2**

M.A. Business Economics 3rd Semester	Total Credit: 4
GROUP III RESOURCE ECONOMICS **Paper-M-BECOE-037 (Elective)** **ECONOMICS OF ENVIRONMENT AND SOCIAL SECTOR-I**	Time: 3 Hrs. Marks: 100 External : 80 Internal : 20

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

 III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-037.1	The students shall be able to comprehend the complexity of relations between environment, ecology and economics.
M-BECOE-037.2	To understand why the state or markets may fail to allocate the environmental resources optimally or to achieve the desirable environmental quality level.
M-BECOE-037.3	To understand the evolution of environmental policy in general and specifically for India.
M-BECOE-037.4	To learn & equip with the use of environmental valuation techniques and policy mix instruments.

Unit –I

Market Efficiency and Market Failure

Environment, ecology and economy; Pareto optimality and perfect competition; External effects in production and consumption; Market failure in case of environmental goods - incomplete markets, externalities, non-exclusion; non-rivalry; non-convexities and asymmetric information.

Reading List

- Bhattacharya, Rabindra Nath (2002). *Environmental Economics: An Indian Perspective*. Oxford India.
- Hanley, N., Shogern, J.F. & White, B. (1997). *Environmental Economics in Theory and Practice.* Macmillan.
- Henderson, J. M. & Quandt, R.E. (2003).*Microeconomic Theory: A Mathematical Approach*, McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1979). *Modern Microeconomics*, Macmillan Press, London.

Unit –II

Environment Policy and Regulations

Environmental policy framework in India - problems of command & control regime; New Environment Policy. Natural resources: types, classification and scarcity; Elementary capital theory; Economics of natural resources.

Reading List

- Bhattacharya, Rabindra Nath (2002).*Environmental Economics: An Indian Perspective*. Oxford India.
- Chary, S.N. and Vyasulu, Vinod (2000).*Environmental Management - an Indian Perspective*. Macmillan, New Delhi.
- Hanley, N., Shogern, J.F. & White, B. (1997). *Environmental Economics in Theory and Practice.* Macmillan.
- Sankar, U. (Ed.). (2001). *Environmental Economics*. Oxford University Press, New Delhi.
- Ministry of Environment & Forest Website.

Unit –III

Environment Protection Instruments

Economic instruments for environmental protection: Pollution charges, ambient charges, product charges,

subsidies; Liability rules - non-compliance fees, deposit refund system, performance bonds; Marketable pollution permits; Evaluative criteria of and practical conditions for use of the economic incentives; Mixed instruments; Choice among policy instruments; Estimation of marginal cost of pollution abatement for designing the pollution tax.

Reading List
- Hanley, N., Shogern, J.F. & White, B. (1997). *Environmental Economics in Theory and Practice.* Macmillan.
- Hussen, A.M. (1999). *Principles of Environmental Economics*. Routledge, London.
- James, A.J., Murty, M. N. & Misra, Smita (1999). *Economics of Water Pollution – The Indian Experience*. Oxford University Press, New Delhi.
- Jeroen. C.J.M. &Bergh, Van Den (1999).*Handbook of Environmental and Resource Economics*. Edward Elgar Publishing Ltd., U.K.
- Painuly, J. P.(1995). Economic Instruments: Application to Environmental Problems (Working paper no 3). Risø National Laboratory, UNEP Risø Centre. UNEP Collaborating Centre on Energy and Environment, Denmark.
- Pearce, D.W. & Turner R. (1991). *Economics of Natural Resource Use and Environment*. John Hopkins University Press, Baltimore.
- Sankar, U. (Ed.). (2001). *Environmental Economics*. Oxford University Press, New Delhi.

Unit –IV

Valuation of Environmental Costs and Benefits

Coase's bargaining solution and collective action. Measures of economic value of environment WTP and WTAC; Contingent valuation method; Travel cost method; Hedonic market methods; Averting behaviour approach - household health production function method.

Reading List
- Cropper, Maureen (1999). *Valuing Environmental Benefits*. Edward Elgar.
- Hanley, N., Shogern, J.F. & White, B. (1997). *Environmental Economics in Theory and Practice.* Macmillan.
- James, A.J., Murty, M. N. & Misra, Smita (1999). *Economics of Water Pollution – The Indian Experience*. Oxford University Press, New Delhi.
- Sankar, U. (Ed.). (2001). *Environmental Economics*. Oxford University Press, New Delhi.

Mapping Matrix of Course M-BECOE-037
Table 1: CO-PO Matrix for the Course M-BECOE-037

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-037.1	3	2	2	2	2	2	3	2	3	2	2	2
M-BECOE-037.2	3	3	3	3	2	3	3	2	3	2	2	2
M-BECOE-037.3	3	2	3	2	2	3	3	3	3	2	2	-
M-BECOE-037.4	3	3	3	3	3	3	3	3	2	-	-	3
AVERAGE	3.00	2.5	2.75	2.50	2.25	2.75	3.00	2.50	2.75	2	2	2.33

Table 2: CO-PSO Matrix for the Course M-BECOE-037

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-037.1	3	-	3	2
M-BECOE-037.2	3	3	3	2
M-BECOE-037.3	3	-	-	3
M-BECOE-037.4	3	3	3	2
AVERAGE	3.00	1.50	2.25	2.25

M.A. Business Economics 3rd Semester	Total Credit: 4
GROUP III RESOURCE ECONOMICS **Paper-M-BECOE-038 (Elective)** **DEMOGRAPHY–I**	Time: 3 Hrs. Marks: 100 External : 80 Internal : 20

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

    II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

    III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-038.1	Understand the basics of demography.
M-BECOE-038.2	Use demographic concepts and population theories to explain past and present population characteristics
M-BECOE-038.3	Analyze the world population growth and trends and distinguish between the populations patterns of developed and less developed countries
M-BECOE-038.4	Describe and compare the demographic process of fertility, mortality and Nuptiality.

Unit-I

Introduction to Demography

Evolution of Demography; Meaning, subject matter and importance of Demography; Concepts of population change and Composition of population; Sources of Demographic Data: Census, Sample Surveys, Registration.

Reading List

- Bouge, D.J. (1971). *Principles of Demography*, John Wiley, New York.
- Harper, S. (2018). *Demography: A Very Short Introduction*, Cambridge University Press.
- Weinstein, J. & Pillai, V.K. (2015).*Demography: The Science of Population*. Rowman & Littlefield Publications.

Unit-II

Population and Demographic Transition

Theories of Population: Malthusian Theory, Optimum Theory; Theories of Demographic Transition: Blacker and Boserup; Biological theories of Population; Socio-economic theories of Population – Marx & Leibenstein, Approaches of Meadows, Becker and Easterlin.

Reading List

- Majumdar, P.K. (2010).*Fundamentals of Demography*. Rawat Publication.
- Mishra, J.P. (2018). *Demography*. Sahitya Bhawan Publication.
- Novell, C. (1990), *Methods and Models in Demography*. Bellhaven, Washington D.C.
- Pathak, K.B. & Ram, F. (2016). *Techniques of Demographic Analysis*. Himalaya Publishing House.

Unit-III

Trends of World Population

Growth of World Population: History of Growth, Population trends since 20th century, Causes of Population Explosion; International Aspects of Population Growth and distribution; Age and Sex Structure in more developed and less developed countries; Population Pyramids.

Reading List
- Preston, Samuel H. (2000). *Demography: Measuring and Modeling Population Processes*. Guilford Press.
- Preston, Samuel H., Heuveline, P. & Guillot, Michel (2001). *Demography: Measuring and Modeling Population Processes*. Oxford: Blackwell Publishers.
- Rowland, D. (2003). *Demographic Methods and Concepts*. OUP.
- Sharma, Rajendra K. (2004). *Demography and Population Problems*. Atlantic Publications.

Unit-IV

Fertility, Mortality and Nuptiality

Fertility **-** Meaning & Concepts; Factors affecting Fertility; Levels and trends of fertility in developed and developing Countries; Mass Education and Fertility- Cooperation, inequality and the family (A.K. Sen).

Mortality **-** Meaning & Concepts; Factors affecting Mortality; Life Tables - Construction & Uses; Concepts of stationary, stable and quasi stationary population.

Nuptiality **-** Meaning and Concepts; Determinants of Nuptiality; Trends in average age of marriage; Marital Dissolution

Reading List
- Siegel, Jacob S. & Swanson, David A. (2004). *The Methods and the materials of Demography.* Second Edition, Elsevier Science.USA.
- Srinivasan, K. (1998). *Basic Demographic Techniques and Applications*. Sage publications.
- Weeks, J. (2005). *Population: An introduction to concepts and issues*. Wordsworth Learning. Singapore 9th edition.
- Yusuf Farhat, Jo M. Martius and David A. Seans (2016). *Methods of Demographic Analysis*. Springer Netherlands.

Mapping Matrix of Course M-BECOE-038
Table 1: CO-PO Matrix for the Course M-BECOE-038

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-038.1	3	2	3	3	2	2	3	2	-	-	-	2
M-BECOE-038.2	3	2	3	3	2	2	3	2	-	-	-	2
M-BECOE-038.3	3	2	3	3	2	3	3	2	-	-	-	2
M-BECOE-038.4	3	2	3	3	2	3	3	2	-	-	-	2
AVERAGE	**3**	**2**	**3**	**3**	2	**2.5**	**3**	**2**	-	-	-	2

Table 2: CO-PSO Matrix for the Course M-BECOE-038

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-038.1	3	3	2	2
M-BECOE-038.2	3	3	2	2
M-BECOE-038.3	3	3	2	2
M-BECOE-038.4	3	3	2	2
AVERAGE	**3**	**3**	**2**	**2**

M.A. Business Economics 3rd Semester	Total Credit: 4
GROUP IV SECTORAL ECONOMICS	Time: 3 Hrs.
Paper-M-BECOE-039 (Elective)	Marks: 100
ECONOMICS OF AGRICULTURE-I	External : 80
	Internal : 20

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

   III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-039.1	Understand and analyze critically the agriculture sector linkages with economic development and become able to estimate the risks and uncertainties involved in agriculture.
M-BECOE-039.2	Comprehend, compare, evaluate and then present the various economic thoughts in context of agriculture namely Ancient, Hebrew, Greek, Roman, Medieval, Physiocratic and Classical.
M-BECOE-039.3	Understand and explain latest trends in Indian agriculture, challenges involved in agricultural productivity, price policy and marketing practices.
M-BECOE-039.4	Able to understand, present and measure unemployment and poverty in rural sector, gender inequity in agriculture, unequal income distribution and develop the ability to design adequate policies in this regard.

Unit – I

Agriculture and Economic Development

Agricultural Economics – Definition, Nature and Scope; Role of Agriculture in Economic Development; Inter-Sectoral Linkages of Agriculture (Backward & Forward Linkages and Feedback Effects); Role of Agriculture in Haryana and Indian Economy; Farming as a business or way of life; Risks and Uncertainties in Agriculture.

Reading List
- Datt, G. & Mahajan, A. (2020). *Datt & Sundharam's Indian Economy*. S.Chand Publishers, New Delhi.
- Gardener, Bruce L., & Rausser, Gordon C. (Eds.). (2002). *Handbook of Agricultural Economics, Vol.2A- Agriculture and Its External Linkages*. Amsterdam, Elsevier Science B.V.
- Moss, C.B. (2010). *Risk, Uncertainty and the Agricultural Firm*. World Scientific Publishing Co. Pte. Ltd. Singapore.
- 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.

Unit – II

Evolution of Agricultural Economic Thoughts

Ancient Economic Thought and Agriculture: Hebrew Economic Thought; Greek Economic Thought – Socrates, Plato, Aristotle; Roman Economic Thought; Medieval Economic Thought and Agriculture – St. Augustine; Physiocrats and Agriculture; Classical Economic Thought and Agriculture.

Reading List
- Drummond H. E. & Goodwin W. J. (2004). *Agricultural Economics*. Pearson Education, New Delhi.
- Eicher, C. & Lawrence, W. (Eds.). (1970). *Agriculture in Economic Development*. New York, McGraw Hill Co.

- Lokanathan, V. (1973). *A History of Economic Thought*. S. Chand Publishing.

Unit – III

Issues in Indian Agriculture

Indian Agriculture: Features, Problems and Trends; Agricultural Productivity in India – Causes of low productivity and Suggestions to increase productivity in India; Agricultural Price Policy: origin, objectives, need, instruments, shortcomings and suggestions for Re-orientation of Agricultural Price Policy in India; Agriculture Marketing in India; Agricultural Development and Five Year Plans.

Reading List
- Bhalla, G.S. (2007). *Indian Agricultural Since Independence*. National Book Trust, India.
- Ezaz Anwar, Md. (2019). *Agriculture and Economic Development in India*. New Century Publications,
- Goswami, B., Bezbaruah, M. P. & Mandal, R. (Eds.). (2017). *Indian Agriculture after the Green Revolution: Changes and Challenges*. Routledge, New York.
- Paroda, R. S. (2018). *Reorienting Indian Agriculture: Challenges and Opportunities*. CABI, Oxfordshire, UK.

Unit – IV

Rural Unemployment and Poverty

Rural Unemployment: Nature, Magnitude, Causes and Suggestions to solve unemployment problem; Problems and Measures to improve the conditions of Agricultural Labourers; Rural Poverty; Inequalities in income distribution; Gender inequity in agriculture; Concept of Poverty Line and Measures to eradicate Poverty in India.

Reading List
- Bathla, S., Joshi, P.K. & Kumar, A. (2020). *Agricultural Growth and Rural Poverty Reduction in India – Targeting Investments and Input Subsidies*. Springer.
- Bhalla, G.S. & Singh, G. (2012). *Economic Liberalisation and Indian Agriculture – A District Level Study*. Sage Publications India Pvt. Ltd., New Delhi.
- Nath, G.B. (1998). *Problems of Agricultural Labour: A Case Study of Orissa*. Classical Publishing Company, University of Michigan.
- Sridhara, S., Nagachaitnya, B., Chakravarthy, A.K., Nagamani, M.K. & Prabhakara Shetty, T.K. (Eds.). (2009). *Women in Agriculture & Rural Development*. New India Publishing Agency.
- Tripathy, S. N. (2000). *Contractual Labour in Agricultural Sector*. Discovery Publishing House.

Mapping Matrix of Course M-BECOE-039
Table 1: CO-PO Matrix for the Course M-BECOE-039

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-039.1	3	2	3	3	-	2	2	2	2	2	2	2
M-BECOE-039.2	3	2	2	2	-	2	2	2	2	2	2	2
M-BECOE-039.3	3	2	3	2	2	2	2	3	2	2	2	2
M-BECOE-039.4	3	3	3	3	2	2	2	2	2	2	2	2
AVERAGE	3.00	2.25	2.75	2.50	2	2	2	2.25	2.00	2.00	2.00	2.00

Table 2: CO-PSO Matrix for the Course M-BECOE-039

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-039.1	2	2	3	3
M-BECOE-039.2	2	2	3	2
M-BECOE-039.3	2	3	2	3
M-BECOE-039.4	3	3	3	3
AVERAGE	2.25	2.5	2.75	2.75

M.A. Business Economics 3rd Semester **GROUP IV SECTORAL ECONOMICS** **Paper-M-BECOE-040 (Elective)** **INDUSTRIAL ECONOMICS-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

  III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-040.1	Learn the scope and breadth of industrial economics and able to use the tools of economic analysis and the classical theory of markets in the analysis of organizations.
M-BECOE-040.2	Comprehend, compare and present the theories of industrialization and location along with their technical applications.
M-BECOE-040.3	Understand market structure-conduct-performance and appreciate the concept of sellers' concentration along with its measurement using adequate techniques.
M-BECOE-040.4	Understand and then able to present the concepts of industrial productivity and efficiency along with measurement using analytical tools.

Unit-I

Industrial Organization and Theories of the Firm

Meaning and scope of industrial economics; Industrial organization and ownership structure – public, private, joint and co-operative sectors; Objectives of the firm; Theories of the firm: Neoclassical theory, Managerial Theories, Coasian firm and transaction cost approach, Strategic and knowledge based theories.

Reading List
- Bains, J. S. (1996). *Industrial Organization*. Cheltenham, U. K.
- Barthwal, R. R. (1985). *Industrial Economics*. Wiley Eastern Ltd., New Delhi.
- Divine, P. J., Lee, N., Jones, R. M. & Tyson, W.J. (2018). *An Introduction to Industrial Economics*. Routledge.
- Hay, D. & Morris, D. J. (1979). *Industrial Economics: Theory and Evidence*. Oxford University Press, New Delhi.

Unit-II

Theories of Industrialization and Industrial Location

Theories of Industrialization – Hoffman, Chenery and Gershenkron; Theories of industrial location – Weber, Sargent and August Losch theories, Hotelling's location model, Salop's location model; Factors affecting location; Balanced regional development of industries.

Reading List
- 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 Press, New Delhi.
- Smith, D. M. (1971). *Industrial Location: An Economic and Geographic Analysis.* John Wiley, New York.
- Symeonidis, George (1999). *Industrial Economics*. University of London Study Guide (SG).

Unit-III

The Structure-Conduct-Performance Paradigm

The structural conduct performance approach; Relationships between structure, conduct & performance; Neoclassical developments of the SCP approach; Sellers concentration and its measurement: the concentration ratio, the Lorenz curve; Product differentiations – its sources and its implications, Entry conditions; Economies of Scale; Market structure and profitability; Market structure and innovation – Process and measurement.

Reading List
- Barthwal, R. R. (1985). *Industrial Economics*. Wiley Eastern Ltd., New Delhi.
- Divine, P. J., Lee, N., Jones, R. M. & Tyson, W.J. (2018). *An Introduction to Industrial Economics*. Routledge.
- Ferguson, P.R. & Ferguson, G.J. (1994). *Industrial Economics: Issues and Perspectives*. Palgrave Macmillan, New York.
- 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.

Unit-IV

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.

Reading List
- Bains, J. S. (1996). *Industrial Organization*. Cheltenham, U. K.
- Barthwal, R. R. (1985). *Industrial Economics*. Wiley Eastern Ltd., New Delhi.
- 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.

Mapping Matrix of Course M-ECOE-040
Table 1: CO-PO Matrix for the Course M-BECOE-040

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-040.1	3	3	3	2	-	2	-	2	-	-	-	3
M-BECOE-040.2	3	3	3	2	2	2	2	-	-	-	-	3
M-BECOE-040.3	3	3	3	2	2	2	2	-	-	-	-	3
M-BECOE-040.4	3	3	3	2	2	2	2	2	-	-	-	3
AVERAGE	**3**	**3**	**3**	**2**	**2**	**2**	**2**	**2**	-	-	-	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-040

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-040.1	3	3	3	2
M-BECOE-040.2	3	3	3	2
M-BECOE-040.3	3	3	3	2
M-BECOE-040.4	3	3	3	2
AVERAGE	**3**	**3**	**3**	**2**

M.A. Business Economics 3rd Semester	Total Credit: 4
GROUP V ECONOMICS OF TXATION **Paper-M-BECOE-041 (Elective)** **DIRECT TAXES-I**	Time: 3 Hrs. Marks: 100 External : 80 Internal : 20

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

   III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-041.1	Understand and then, able to present the scheme of income tax along with the basic concepts involved.
M-BECOE-041.2	Knowledge of various rules for the residential status of assesses in context of tax liability. Besides, understand and present the taxable as well as exempted constituents of income in the terminology of income tax and thus become able to compute income tax.
M-BECOE-041.3	Comprehend and present the provisions of income clubbing, managing income losses and tax deductions at source while calculating the income tax. Moreover, conceptualize the components and computations of agricultural income from the perspective of income tax.
M-BECOE-041.4	Knowledge of taxable incomes under other sources of income and conceptualization of the rules of deductions, grossing up interest & bond washing transactions and thus become able to filing the return of income.

Unit-I

Income Tax- Basic Concepts; Previous Year, Assessment Year, Assessee, Income; Agricultural Income, Casual Income, Person, Average Rate, Marginal Rate, Capital and Revenue Receipts and Expenditure; Return of Income.

Reading List

- Ahuja, G. & Gupta, R. (2020). *Professional Approach to Direct Tax Laws and International Taxation*. Wolters Kluwer (India) Pvt. Ltd., Mohali, Punjab.
- Hariharan, N. (2009). *Income Tax: Law and Practice*. Tata McGraw-Hill Publishing Company Limited, New Delhi.
- Mehrota, H.C. & Goyal, S.P. (2020). *Income Tax: Law and Accounts*. Sahitya Bhavan Publications, Agra.
- Singhania, V.K. (2012). *Taxmann's Direct Taxes: Law and Practice*. Taxmann Publications.

Unit-II

Residential Status and Tax Incidence; Scope of Income; Individual, HUF, Firms, Association of Persons, Body of Individuals, Companies, Other Persons; Gross Total Income, Total Income, Exempted Incomes.

Reading List

- Ahuja, G. & Gupta, R. (2020). *Professional Approach to Direct Tax Laws and International Taxation*. Wolters Kluwer (India) Pvt. Ltd., Mohali, Punjab.
- Balachandran, V. & Thothadri, S. (2013). *Taxation Law and Practice*. PHI Learning Private Limited, New Delhi.
- Hariharan, N. (2009). *Income Tax: Law and Practice*. Tata McGraw-Hill Publishing Company Limited, New Delhi.
- Mehrota, H.C. & Goyal, S.P. (2020). *Income Tax: Law and Accounts*. Sahitya Bhavan Publications, Agra.
- Singhania, V.K. (2012). *Taxmann's Direct Taxes: Law and Practice*. Taxmann Publications.

Unit-III

Clubbing of Income; Set Off and Carry Forward of Losses; Agricultural Income- Tax Treatment of Agricultural Income; Tax Deducted at Source.

Reading List
- Ahuja, G. & Gupta, R. (2020). *Professional Approach to Direct Tax Laws and International Taxation*. Wolters Kluwer (India) Pvt. Ltd., Mohali, Punjab.
- Balachandran, V. & Thothadri, S. (2013). *Taxation Law and Practice*. PHI Learning Private Limited, New Delhi.
- Hariharan, N. (2009). *Income Tax: Law and Practice*. Tata McGraw-Hill Publishing Company Limited, New Delhi.
- Jain, R.K. (2020). *Income Tax: Law and Practice*. SBPD Publications.
- Mehrota, H.C. & Goyal, S.P. (2020). *Income Tax: Law and Accounts*. Sahitya Bhavan Publications, Agra.
- Singhania, V.K. (2012). *Taxmann's Direct Taxes: Law and Practice*. Taxmann Publications.

Unit-IV

Deductions from Gross Total Income; Income from other sources– Dividends, Interest on Security; Deduction of Tax at Source; Grossing Up; Bond Washing Transaction; Deductions; Filing of Return of Income.

Reading List
- Ahuja, G. & Gupta, R. (2020). *Professional Approach to Direct Tax Laws and International Taxation*. Wolters Kluwer (India) Pvt. Ltd., Mohali, Punjab.
- Balachandran, V. & Thothadri, S. (2013). *Taxation Law and Practice*. PHI Learning Private Limited, New Delhi.
- Hariharan, N. (2009). *Income Tax: Law and Practice*. Tata McGraw-Hill Publishing Company Limited, New Delhi.
- Jain, R.K. (2020). *Income Tax: Law and Practice*. SBPD Publications.
- Mehrota, H.C. & Goyal, S.P. (2020). *Income Tax: Law and Accounts*. Sahitya Bhavan Publications, Agra.
- Singhania, V.K. (2012). *Taxmann's Direct Taxes: Law and Practice*. Taxmann Publications.

Mapping Matrix of Course M-BECOE-041
Table 1: CO-PO Matrix for the Course M-BECOE-041

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-041.1	3	2	2	-	2	2	2	2	-	-	-	3
M-BECOE-041.2	3	2	2	-	2	2	2	2	-	-	-	3
M-BECOE-041.3	3	3	2	-	2	2	2	2	-	-	-	3
M-BECOE-041.4	3	3	2	-	2	2	2	2	-	-	-	3
AVERAGE	**3**	**2.5**	**2**	**-**	**2**	**2**	**2**	**2**	**-**	**-**	**-**	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-041

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-041.1	3	2	2	2
M-BECOE-041.2	3	2	2	2
M-BECOE-041.3	3	2	2	2
M-BECOE-041.4	3	2	2	2
AVERAGE	**3**	**2**	**2**	**2**

M.A. Business Economics 3rd Semester **GROUP V ECONOMICS OF TXATION** **Paper-M-BECOE-042 (Elective)** **THEORY OF TAXATION**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter
    I] Nine Questions will be set in all and students will be required to attempt 5 questions.
   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
  III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-042.1	Have theoretical foundations of taxes from economics giving important principles.
M-BECOE-042.2	Utilize the definitions of the various components of Income and Excise tax.
M-BECOE-042.3	Explain the impact of taxes on macro-economic conditions, black economy and individual decisions.
M-BECOE-042.4	Learn impact of Excise Tax on Market Outcomes.

Unit-I

Introduction to Taxation Theory

Principles of Taxation; Theories of Taxation; Taxable Capacity and its measurement; Tax Burden and Economic Efficiency.

Reading List
- Boadway, R. (1984). *Public Sector Economics*. Cambridge Winthrop Publishers.
- Cullis, John & Jones, Philip (2009). *Public Finance and Public Choice: Analytical Perspectives*. Oxford University Press.
- Radhakrishnan, N. (2018). *Public Finance: Theory and Approach*. Vrinda Publications (P) Limited, Delhi.

Unit-II

Analysis of Tax Incidence

Tax Incidence: Partial and General Equilibrium Analysis; Keynesian Short Run Model; Dynamic Tax Incidence.

Reading List
- Boadway, R. (1984). *Public Sector Economics. Cambridge Winthrop Publishers.*
- Ihori, Toshihiro (2016). *Principles of Public Finance*. Springer.
- Jha, Raghbendra (1998). *Modern Public Economics*. Routledge.
- Rosen, H.S. (2005). *Public Finance*. Tata McGraw Hill.
- Salanie, B. (2003). *Economics of Taxation*. MIT Press, Massachusetts Institute of Technology, Cambridge, Massachusetts.

Unit-III

Efficiency Aspect of Taxation

Income V/S Excise Tax; Optimal Taxation; Tax Evasion and the Black Economy; Impact of Taxes on Individual Decisions.

Reading List
- Boadway, R. (1984). *Public Sector Economics. Cambridge Winthrop Publishers.*

- Rosen, H.S. (2005). *Public Finance*. Tata McGraw Hill.
- Salanie, B. (2003). *Economics of Taxation*. MIT Press, Massachusetts Institute of Technology, Cambridge, Massachusetts.

Unit-IV

Economic Implications of Taxation

Impact of Excise Tax on Market Outcomes; Impact of Income Tax on Labour Supply, Savings and Portfolio Choice; Economic Effects of Corporation Income Tax.

Reading List

- Bruce, Neil (2000). *Public Finance*. Addison- Wesley Educational Publishers
- Boadway, R. (1984). *Public Sector Economics*. Cambridge Winthrop Publishers.
- Harberger, A. (1962). *The Incidence of the Corporation Income Tax*. Journal of Political Economy, 70, 215-240.

Mapping Matrix of Course M-BECOE-042
Table 1: CO-PO Matrix for the Course M-BECOE-042

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-042.1	2	2	2	2	2	2	2	2	2	-	2	2
M-BECOE-042.2	2	2	2	2	2	2	2	2	2	-	2	2
M-BECOE-042.3	2	2	2	2	2	2	2	2	2	-	2	2
M-BECOE-042.4	2	2	2	2	2	2	2	2	2	-	2	2
AVERAGE	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	-	**2**	**2**

Table 2: CO-PSO Matrix for the Course M-BECOE-042

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-042.1	2	2	2	2
M-BECOE-042.2	2	2	2	2
M-BECOE-042.3	2	2	2	2
M-BECOE-042.4	2	2	2	2
AVERAGE	**2**	**2**	**2**	**2**

M.A. Business Economics 3rd Semester	Total Credit: 4

<table>
<tr><td colspan="2" align="center">M.A. Business Economics 3rd   Semester
GROUP VI DATA ANALYTICS
Paper-M-BECOE-043 (Elective)
BUSINESS RESEARCH METHODS</td><td>Total Credit: 4
Time: 3 Hrs.
Marks: 100
External : 80
Internal : 20</td></tr>
</table>

Note For the paper Setter
  I] Nine Questions will be set in all and students will be required to attempt 5 questions.
 II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-043.1	Understand the research process & design, and explain/design the relevant data collection instruments.
M-BECOE-043.2	Learn and understand various sample designs, and apply appropriate design as well as data processing.
M-BECOE-043.3	Understand theoretically, solve and apply the relevant tests to the selected research problem both manually and with the help of ICT based softwares.
M-BECOE-043.4	Develop the ability to draft and present the complete research process including findings, references etc. under ethical considerations.

Unit-I

Introduction to Research Methodology
Meaning, Objectives and Process of Research; Research Design: Pure, Applied, Exploratory, Descriptive, Diagnostic, Evaluation, Action and Experimental Research; Sources of Data: Primary and Secondary Sources; Data Collection Instruments: Observation, Interview, Schedules and Questionnaires.

Reading List
- Bryman, Alan (2012). *Social Research Methods*. Oxford University Press, Oxford.
- Ethridge, Don E. (2004). *Research Methodology in Applied Economics*. Wiley.
- Kothari, C.R. (2013). *Research Methodology: Methods and Techniques*. New Age International Publication, New Delhi.
- Krishnawamy, O.R. & Ranghanathan, M. (2016). *Methodology of Research in Social Sciences*. Himalaya Publishing House, Bangalore.

Unit-II

Sampling and Data Processing
Types of Sample Design - Probability Sampling Techniques: Simple Random, Stratified Random, Cluster and Multi-Stage and other Methods of Sampling; Non-Probability Sampling Techniques: Quota Sampling, Convenient Sampling, Purposive Sampling, Judgment Sampling and other Methods; Determination of Sample Size; Errors in Sampling; Data Processing: Processing and Distribution, Field Work Validation, Tabulation, Editing, Coding, Classification and Tabulation of Data, Presentation, Graphical Representation.

Reading List
- Ethridge, Don E. (2004). *Research Methodology in Applied Economics*. Wiley.
- Krishnawamy, O.R. & Ranghanathan, M. (2016). *Methodology of Research in Social Sciences*. Himalaya Publishing House, Bangalore.
- Tucker, V. (2020). *Research Methods in Social Sciences*. Pearson India.

Unit-III

Analysis of Data

Measures of Central Tendency - Mean, Median and Mode; Measures of Dispersion - Range, Mean Deviation, Standard Deviation, Variation, Coefficient of Variation; Testing of Hypothesis - Parametric and Non-Parametric Tests; Standard Test of Hypothesis - Z test, t- test, F test and ANOVA, Chi Square test; Index Numbers.

Reading List
- Bryman, Alan (2012). *Social Research Methods*. Oxford University Press, Oxford.
- Ethridge, Don E. (2004). *Research Methodology in Applied Economics*. Wiley.
- Kothari, C.R. (2013). *Research Methodology: Methods and Techniques*. New Age International Publication, New Delhi.
- Tucker, V. (2020). *Research Methods in Social Sciences*. Pearson India.

Unit-IV

Fundamentals of Report Writing

Importance of Report Writing; Types of Reports: Brief Reports, Detailed Reports, Technical Reports and Business Reports; Report Structure: Preliminary Section, Main Report; Research Findings and Suggested Recommendations; Limitations of the Study and End Notes; Report Writing: Report Formulation; Visual Representations: Tables, Graphs, Charts; Presenting Footnotes and Bibliography; Plagiarism and Ethical Issues in Research.

Reading List
- Gastel, B. & Day, Robert A. (2016). *How to Write and Publish a Scientific Paper*. Greenwood Publishers, California.
- Kothari, C.R. (2013). *Research Methodology: Methods and Techniques*. New Age International Publication, New Delhi.
- Krishnawamy, O.R. & Ranghanathan, M. (2016). *Methodology of Research in Social Sciences*. Himalaya Publishing House, Bangalore.
- Tucker, V. (2020). *Research Methods in Social Sciences*. Pearson India.

Mapping Matrix of Course M-BECOE-043
Table 1: CO-PO Matrix for the Course M-BECOE-043

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-043.1	3	3	3	3	3	3	2	2	2	-	2	2
M-BECOE-043.2	3	3	3	3	3	3	2	2	2	-	2	2
M-BECOE-043.3	3	3	3	3	3	3	2	2	2	-	2	2
M-BECOE-043.4	3	3	3	3	3	3	2	2	2	-	2	2
AVERAGE	**3**	**3**	**3**	**3**	**3**	**3**	**2**	**2**	**2**	-	2	2

Table 2: CO-PSO Matrix for the Course M-BECOE-043

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-043.1	3	3	2	3
M-BECOE-043.2	3	3	2	3
M-BECOE-043.3	3	3	2	3
M-BECOE-043.4	3	3	2	3
AVERAGE	**3**	**3**	**2**	**3**

M.A. Business Economics 3rd Semester **GROUP VI DATA ANALYTICS** **Paper-M-BECOE-044 (Elective)** **DATA ANALYTICAL TECHNIQUES-I**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter
  I] Nine Questions will be set in all and students will be required to attempt 5 questions.
 II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-044.1	Develop understanding about nature of data, analysis strategy and factors affecting the choice of techniques.
M-BECOE-044.2	Learn basic regression analysis.
M-BECOE-044.3	Learn the use of dummy variables in regression and basics of time series analysis.
M-BECOE-044.4	Learn the analysis of experimental data.

Unit-I

Data Analysis Techniques
Meaning, types and sources of data; Level of measurement scale**:** nominal, ordinal, interval and ratio data; Data analysis strategy and choice of data analysis techniques; Major Parametric and Non Parametric Tests; Analysis of associations; Analysis of correlations.

Reading List
- Kothari, C.R. (2013). *Research Methodology: Methods and Techniques*. New Age International Publication, New Delhi.
- Gupta, S.C.& Kapoor, V.K. (2007).*Fundamentals of Applied Statistics*. S. Chand and Sons, New Delhi.
- Luck, David J & Rubin, Ronald S. (1989). *Marketing Research 7th ed.,* Prentice Hall of India

Unit-II

Regression Model and Related Problems
Classical Linear Regression Model-two independent variables; Testing of coefficients and significance of overall equation; Diagnosis and remedy of multicollinearity, hetereoscedasticity and autocorrelation (two methods each).

Reading List
- Gujarati, D.N. (1995).*Basic Econometrics*. McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1977).*Theory of Econometrics*. The Macmillan Press Ltd. London.

Unit-III

Dummy Variables and Time Series Analysis
Use of Dummy variables. Basic Concepts of Time Series Analysis, Stationary and Unit root tests, Co-integration; Standard Granger causality and Error Correction Model.

Reading List
- Gujarati, D.N. (1995).*Basic Econometrics*. McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1977). *Theory of Econometrics*. The Macmillan Press Ltd. London.

Unit-IV

Analysis of Experimental Data

Completely randomized design, Block randomized design, Latin square design and simple factorial design. Introduction to interdependence-analysis.

Reading List
- Kothari, C.R. (2013). *Research Methodology: Methods and Techniques*. New Age International Publication, New Delhi.
- Luck, David J. & Rubin, Ronald S. (1989). *Marketing Research 7th ed.,* Prentice Hall of India.

Mapping Matrix of Course M-BECOE-044
Table 1: CO-PO Matrix for the Course M-BECOE-044

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-044.1	3	3	3	3	3	3	2	2	2	-	2	2
M-BECOE-044.2	3	3	3	3	3	3	2	2	2	-	2	2
M-BECOE-044.3	3	3	3	3	3	3	2	2	2	-	2	2
M-BECOE-044.4	3	3	3	3	3	3	2	2	2	-	2	2
AVERAGE	**3**	**3**	**3**	**3**	**3**	**3**	**2**	**2**	**2**	-	**2**	**2**

Table 2: CO-PSO Matrix for the Course M-BECOE-044

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-044.1	3	3	2	3
M-BECOE-044.2	3	3	2	3
M-BECOE-044.3	3	3	2	3
M-BECOE-044.4	3	3	2	3
AVERAGE	**3**	**3**	**2**	**3**

MA BUSINESS ECONOMICS PART-II SEMESTER-IV (W.E.F. 2021-22)

PAPER CODE	NOMENCLATURE	No. of Credit	Teaching Scheme Hrs/Week			Examination Scheme (Marks & Time)			
			L	T	P	External Marks	Internal Assessment	Total	Time
CORE COURSES									
M-BECOC-015	International Trade and Finance-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC-016	Indian Economic Policy-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC-017	Economics Of Growth And Development-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOC-018	Comprehensive Viva Voce	2	-	½ hrs/G	2	50	-	50	-------
Elective Courses : Choose Any One Of The Following Elective Groups									
Group-I Quantitative Economics									
M-BECOE-045	Econometrics-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-046	Mathematical Economics-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-II Financial Economics									
M-BECOE-047	Economics of Corporate Finance-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-048	Financial Derivatives	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-III Resources Economics									
M-BECOE-049	Economics Environment & Social Sector-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-050	Demography-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-IV Sectoral Economics									
M-BECOE-051	Agriculture Economics-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-052	Industrial Economics-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-V Economics Of Taxation									
M-BECOE-053	Direct Taxes-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-054	Corporate Tax Planning	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Group-VI Data Analytics									
M-BECOE-055	Dissertation	4	4	½ hrs/G	-	80	20	100	3 Hrs.
M-BECOE-056	Data Analytical Techniques-II	4	4	½ hrs/G	-	80	20	100	3 Hrs.
Total		22	20	3	2	550			

Note: Students are required to select any one group of two (02) elective papers. The students will select the same corresponding papers as in Semester III. However, the number of options offered is subject to the availability of faculty.

Compulsory Credits: 14
Optional Credits: 08

M.A. Business Economics 4th Semester **Paper- M-BECOC-015 (Compulsory)** **INTERNATIONAL TRADE AND FINANCE-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter
   I] Nine Questions will be set in all and students will be required to attempt 5 questions.
   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
   III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOC-015.1	Understand, explain and present various approaches of foreign exchange rate determination especially in a forward market.
M-BECOC-015.2	Comprehend various models of balance of payment and analyze recent trend of it in India.
M-BECOC-015.3	Learn and explain macro adjustment policies in an open economy framework.
M-BECOC-015.4	Understand and analyze the working of International Financial Management and Institutions

Unit-I

Foreign Exchange Market
Evolution of foreign exchange rate determination mechanism, Speculation and arbitrage, role of expectations, currency swaps, future and options, Asset approach to exchange rate, Portfolio balance approach, FOREX management strategy, Management of foreign exchange with special reference to India, Indian Rupee and its fluctuations in International currency market.

Reading List
- Branson, W.H. (1980). *Asset Markets and Relative Prices in Exchange Rate Determination*. International Finance Section, Department of Economics, Princeton University.
- Frankel, J.A. (1993). *Monetary & Portfolio Balance Models of Exchange Rate Determination*. MIT Press, Cambridge.
- Heller, H.R. (1974). *International Monetary Economics*. Prentice- Hall, Englewood Cliffs, N.J.
- Pilbearn, Keith (2006). *International Finance*. Palgrave Macmillan.

Unit-II

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; Recent trends in BOP in India.

Reading List
- Alexander, S.S. (1959). Effects of Devaluation on Trade Balance. *American Economic Review*, 49, 21-42.
- Kreinin, M.E. & Officer, L.H. (1981). The Monetary Approach to the Balance of Payment: A Survey (Princeton Studies in International Finance No. 43). Princeton University.
- McCallum, Bennett T. (1996). *International Monetary Economics*. Oxford University Press, New York.
- Stern, R.M. (2017). *The Balance of Payments: Theory and Economic Policy*. Routledge.
- Thirlwal, A.P (1999). *Balance of Payments Theory*. Oxford University Press, New York.

Unit-III

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; Implications of Impossible Trinity in the Indian Context.

Reading List
- Caves, R.E. & Johnson, H.G. (Eds.). (1968).*Readings in International Trade*. Homewood, Allen & Unwin, London.
- Rivera-Batiz, Francisco L. & Rivera-Batiz, Luis A. (1994). *International Finance and Open Economy Macroeconomics*. Macmillan.
- Salvatore, D. (2019). *International Economics*. John Wiley and Sons.

Unit-IV

International Financial Management and Institutions

International Capital Movements: FDI and Portfolio Investment; 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.

Reading List
- Kindleberger, C.P. (1996). *A History of Financial Crisis: Manias, Panics and Crashes*. John Wiley and Sons, New York.
- Salvatore, D. (2019). *International Economics*. John Wiley and Sons, New York.
- Whalley, John (1985). *Trade Liberalization Among Major Trading Areas*. Cambridge University Press.

Mapping Matrix of Course M-BECOC-015
Table 1: CO-PO Matrix for the Course M-BECOC-015

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-015.1	3	3	3	3	3	2	3	3	-	-	-	3
M-BECOC-015.2	3	3	3	3	3	2	3	3	-	-	-	3
M-BECOC-015.3	3	3	3	3	3	3	3	3	-	-	-	3
M-BECOC-015.4	3	3	3	3	3	3	3	3	-	-	-	3
AVERAGE	**3**	**3**	**3**	**3**	**3**	**2.5**	**3**	**3**	**-**	**-**	**-**	**3**

Table 2: CO-PSO Matrix for the Course M-BECOC-015

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-015.1	3	3	3	2
M-BECOC-015.2	3	3	3	2
M-BECOC-015.3	3	3	3	2
M-BECOC-015.4	3	3	3	2
AVERAGE	**3**	**3**	**3**	**2**

M.A. Business Economics 4th Semester **Paper- M-BECOC-016 (Compulsory)** **INDIAN ECONOMIC POLICY-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

    II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

    III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOC-016.1	Understand, explain and analyze various issues and policies regarding sustainable agriculture in India.
M-BECOC-016.2	Comprehend and critically analyze the policies related to industries and labour in India.
M-BECOC-016.3	Understand the working of Indian financial system and analyze various financial sector reforms undertaken in India.
M-BECOC-016.4	Understand and critically evaluate external sector reforms and policies undertaken in India.

Unit-I

Indian Agriculture

Agriculture: Productivity trends and crop pattern; Food security in India; Irrigation and agricultural inputs; Size of farms and productive efficiency; Agricultural Labour Problems; Agricultural Finance and Rural Indebtedness; Agricultural marketing and prices; Issues and policies regarding sustainable agriculture in India; Agriculture Policy Vision 2020.

Reading List

- Kapila, Uma (2016). *Indian Economy: performance and policies*. Academic foundation, New Delhi.
- Ministry of Finance (2020). *Economic Survey*. Government of India.
- Mishra, S. K. & Puri, V.K. (2020). *Indian Economy*. Himalaya Publishing House, New Delhi.
- Shergill, H.S. (2006). *Diversification of cropping pattern: A Re-Examination*. Institute for Development and Communication, Chandigarh.

Unit – II

Industrial Sector in India

New Industrial policy; Industrial pattern and the planning era; Public sector enterprises- Role and performance; Small-scale industries under globalization; India's labour Market: laws and reforms; Industrial Finance and Development Banks; Competition Law.

Reading List

- 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.
- Kapila, Uma (2014-2015). *Indian Economy since independence*. Academic Foundation, New Delhi.
- Meier, Gerald M. (1987). *Pioners in Development*. Oxford University Press, New Delhi.
- Ministry of Finance (2020). *Economic Survey*. Government of India.
- Mishra, S. K. & Puri, V.K. (2020). *Indian Economy*. Himalaya Publishing House, New Delhi.

Unit – III

Indian Financial System

Structure of Indian Financial System; Commercial banking in India; Indian Money and capital markets; Issues in Indian public finance; Monetary policy; Non-Banking Financial Sector; Financial Instruments and Financial

Services; Cooperative Banks; Financial Sector Reforms; Demonetization.

Reading List

- Banerjee, A. & Singh, S.K. (2001). *Banking and Financial Sector Reforms in India*. Deep & Deep Publications, New Delhi.
- 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.

Unit – IV

Issues in External Sector

India's External Sector Reforms; Foreign Direct and Portfolio investments in India; India and the WTO; Exchange Rate Policy of India; Trends in India's Foreign Trade;   Balance of Payments - Problems and Policies; Liberalization, Privatization, Globalization and Indian's trade & investment.

Reading List

- Bhagwati, Jagdish (2004). *In Defense of Globalization*. Oxford University Press, New Delhi.
- Bhandari, Surendra (1998). *WTO and Developing Countries*. Deep & Deep Publications, New Delhi.
- Datt, G. & Mahajan, A. (2020). *Datt & Sundharam's Indian Economy*. S. Chand Publishing House.
- Hanumantha Rao, C.H., Bhattacharya, B.B. and Siddharthan, N. (Eds.). (2005). *Indian Economy and Society in Era of Globalization and Liberalization*. Academic Foundation, New Delhi.
- Mathur, Vibha (2005). *WTO and India (Development Agenda for the 21st century)*. New Century Publications, New Delhi.
- Rameshan P. (2008). *WTO, India and Emerging area of Trade: Challenges and Strategies*. Excel Books, New Delhi.
- Stiglitz, Joseph (2002). *Globalization and its Discontents*. Penguin Books, New Delhi.

Mapping Matrix of Course M-BECOC-016
Table 1: CO-PO Matrix for the Course M-BECOC-016

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-016.1	3	2	3	2	2	2	3	2	-	-	-	3
M-BECOC-016.2	3	3	3	2	2	2	3	2	-	-	-	3
M-BECOC-016.3	3	2	3	3	2	3	3	2	-	-	-	3
M-BECOC-016.4	3	3	3	3	2	3	3	2	-	-	-	3
AVERAGE	**3**	**2.5**	**3**	**2.5**	**2**	**2.5**	**3**	**2**	-	-	-	**3**

Table 2: CO-PSO Matrix for the Course M-BECOC-016

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-016.1	2	2	2	2
M-BECOC-016.2	2	2	2	2
M-BECOC-016.3	2	2	2	2
M-BECOC-016.4	2	2	2	2
AVERAGE	**2**	**2**	**2**	**2**

M.A. Business Economics 4th Semester **Paper- M-BECOC-017 (Compulsory)** **ECONOMICS OF GROWTH AND DEVELOPMENT-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

   III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOC-017.1	To understand, analyze and interpret the approaches to development with a view to apply them practically.
M-BECOC-017.2	To understand, analyse and interpret various aspects of the sectoral development including agriculture, industry and services with a view to solve their problems to remove the hurdles in their growth & development.
M-BECOC-017.3	To develop an insight in the issues of international trade, theory, policy, promotion and its relationship with growth & development.
M-BECOC-017.4	To acquaint the students with emerging issues of development including role of financial institutions, new institutional economics and changing paradigm of development.

Unit – I

Approaches to Development

Balanced and Unbalanced Growth; Critical Minimum Efforts Theory; Low Income Equilibrium Trap; Dual Economy: Models of Lewis, Fei-Ranis, Jorgensen, Basic idea of Dixit and Marglin, Kelly et.al.

Reading List

- Adelman, I. (1961).*Theories of Economic Growth and Development*. Stanford University Press, Stanford.
- Ghatak, S. (1986).*An Introduction to Development Economics*. Allen and Unwin, London.

- Higgins, B. (1959). *Economic Development*. W.W. Norton, New York.
- Hirschman, A.O. (1958).*The Strategy of Economic Development*. Yale University Press, New York.
- Kindleberger, C.P. (1977).*Economic Development*. McGraw Hill, New York.
- Lewis, W.A. (1955). *The Theory of Economic Growth*. George Allen and Unwin, London.
- Thirlwal, A.P. (1999). *Growth and Development*. Macmillan, U.K.

Unit – II

Sectoral Aspects of Development

Role of Agriculture in Economic Development; Heterogeneity in Agriculture; Agricultural Transformation: Designing Strategy for Agriculture Transformation;

Rationale and Pattern of Industrialization in developing Countries; Choice of Techniques, Appropriate technology and employment; Terms of Trade between Agriculture and Industry.

Services Sector in Developing Economies: Role, growth and sustainability, Infrastructure and its importance.

Reading List

- Bhagwati, J. & Desai, P. (1970). *India: Planning for Industrialization*. Oxford University Press, London.
- Brown, M. (1966). *On the Theory and Measurement of Technical Change*. Cambridge University Press, Cambridge, Mass.
- Grossman, G. and E. Helpman (1991). *Innovation and Growth in the Global Economy*. MIT Press, Cambridge, Mass.
- Schultz, Paul T. & Strauss, J. (Eds.). (2008). *Handbook of Development Economics, Vol. 4*. Elsevier, Amsterdam.
- Schultz, T.W. (1968). Economic Growth and Agriculture. McGraw Hill.
- Sen, A.K. (Ed.). (1990). *Growth Economics*. Penguin, Harmondsworth.

Unit – III

International Trade Theory and Development Strategy
Key Issues in International Trade; Critique of Traditional Tree Trade Theory; Trade Policy Debate: Export Promotion, Import Substitution and Economic Integration; Globalization and Development: View of Stiglitz.

Reading List
- Aydin, H. I., Ziolo, M. & Balacescu, A. (Eds.). (2017). *Economic Development: Global & Regional Studies*. IJOPEC Publication, London.
- Todaro, M.P. & Smith, S.C. (2003). *Economic Development*. Pearson Education, Delhi.

Unit – IV

Emerging Issues in Development
Role of financial Institutions in economic development: Theory (Acemoglu and ZilibottiModel) and Evidence.
New Institutional Economics: Role of Market, State and Civil Society.
Post 2015 Development Agenda: Impasse in Development Studies and the Alternatives to the Impasse.

Reading List
- Meier, G.M. & Rauch, J.E. (2005).*Leading Issues in Economic Development*. Oxford University Press, New Delhi.
- Menard, C. & Shirley, M.M. (2008). *Handbook of New Institutional Economics*. Springer Science & Business Media.
- Todaro, M.P. & Smith, S.C. (2003). *Economic Development*. Pearson Education, Delhi.

Mapping Matrix of Course M-BECOC-017
Table 1: CO-PO Matrix for the Course M-BECOC-017

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-017.1	3	3	3	3	3	2	-	3	2	2	2	-
M-BECOC-017.2	2	2	3	2	3	3	2	3	2	2	2	3
M-BECOC-017.3	3	3	3	2	3	3	2	3	2	2	2	3
M-BECOC-017.4	3	3	2	3	3	2	2	3	-	-	2	3
AVERAGE	2.75	2.75	2.75	2.50	3.00	2.50	1.75	3.00	2	2.00	2.00	3

Table 2: CO-PSO Matrix for the Course M-BECOC-017

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOC-017.1	3	3	2	2
M-BECOC-017.2	3	3	2	2
M-BECOC-017.3	3	3	3	3
M-BECOC-017.4	3	2	2	2
AVERAGE	3.00	3.00	2.25	2.25

M.A. Business Economics 4th Semester **GROUP I QUANTITATIVE ECONOMICS** **Paper- M-BECOE-045 (Elective)** **ECONOMETRICS-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

  III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-045.1	Understand and explain the nature of dynamic econometric model.
M-BECOE-045.2	Comprehend and apply qualitative response regression models.
M-BECOE-045.3	Learn and explain various concepts in Time Series econometrics and economic forecasting.
M-BECOE-045.4	Construct, test, and analyze econometric models, using variables and relationships commonly found in economic theory.

Unit-I

Distributed Lag Models and Causality Tests

Auto Regressive and Distributed lag Models- Koyak Model, Partial Adjust Model, Adaptive Expectations; Almon Approach to distributed-lag model; Causality tests; Granger and Sim's Test.

Reading List

- Gujarati, D.N. (1995). *Basic Econometrics*. McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1977). *Theory of Econometrics*. The Macmillan Press Ltd. London.
- Pindyck R.S. & Rubinfield, D.L. (1976). *Econometric Models and Economic Forecasts*. McGraw Hill Kogakusha Tokyo.

Unit – II

Dummy Variable Technique

Testing Structural Stability of Regression Models, Comparing two regressions, interaction effects, seasonal analysis, piecewise linear Regression; Regression with dummy dependent variables; The LPM, Logit and Probit Models.

Reading List

- Amemiya, T. (1985). *Advanced Econometrics*. Harvard University Press, Cambridge, Mass.
- Baltagi, B.H. (1988). *Econometrics*. Springer, New York.
- Gujarati, D.N. (1995). *Basic Econometrics*. McGraw Hill, New Delhi.
- Kmenta J. (1998). *Elements of Econometrics*. University of Michigan Press, NewYork.
- Koutsoyiannis, A. (1977). *Theory of Econometrics*. The Macmillan Press Ltd. London.
- Shyamala, S., Kaur, Navdeep & Pragasam, T. Arul (2009). *A Text book on Econometrics Theory and Applications*. Vishal Publishing Company Jalandhar.
- Wooldridge, J. M. (2009). *Introductory Econometrics: A Modern Approach*. South-Western Cengage Learning, USA.

Unit – III

Simultaneous Equation Methods

Methods of Estimating Simultaneous Equation System: Indirect Least Squares (ILS), Instrumental Variables (IV), 2SLS and 3SLS Methods; Basic idea and outline of Limited Information Maximum Likelihood (LIML), FIML & SURE Methods; Application to theory of firm – Estimation of Cobb Douglas and CES Production Functions.

Reading List
- Gujarati, D.N. (1995). *Basic Econometrics*. McGraw Hill, New Delhi.
- Kmenta J. (1998). *Elements of Econometrics*. University of Michigan Press, New York.
- Koutsoyiannis, A. (1977). *Theory of Econometrics*. The Macmillan Press Ltd. London.

Unit – IV

Time Series and Panel Data Methods

Time Series: Stationarity, Unit Roots, Co-Integration, Dicky Fuller Test, Random Walk Model, Forecasting with ARIMA and VAR Models-Box Jenkins Methodology, Vector Auto Regression (VAR).

Introduction to Panel Data Methods: Problems with panel data, Pooled OLS, Random effects and fixed effects models.

Reading List
- Amemiya, T. (1985). *Advanced Econometrics*. Harvard University Press, Cambridge, Mass.
- Baltagi, B.H. (2020). *Econometric Analysis of Panel Data*. Springer, New York.
- Enders, Walter (2010). *Applied Econometric Time Series*. John Wiley & Sons,
- Gujarati, D.N. (1995).*Basic Econometrics*. McGraw Hill, New Delhi.
- Harvey, Andrew C. (1999). *The Econometric Analysis of Time Series*. The MIT Press, Cambridge, Massachusetts.
- Kmenta J. (1998). *Elements of Econometrics*. University of Michigan Press, NewYork.
- Shyamala, S., Kaur, Navdeep & Pragasam, T. Arul (2009). *A Text book on Econometrics Theory and Applications*. Vishal Publishing Company Jalandhar.
- Wooldridge, J. M. (2002). *Econometric Analysis of Cross Section and Panel Data.* The MIT Press, Cambridge, Massachusetts.

Mapping Matrix of Course M-BECOE-045
Table 1: CO-PO Matrix for the Course M-BECOE-045

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-045.1	3	2	3	3	3	2	3	2	-	-	-	3
M-BECOE-045.2	3	3	3	3	3	2	3	2	-	-	-	3
M-BECOE-045.3	3	2	3	3	3	3	3	2	-	-	-	3
M-BECOE-045.4	3	3	3	3	3	3	3	2	-	-	-	3
AVERAGE	**3**	**2.5**	**3**	**3**	**3**	**2.5**	**3**	**2**	**-**	**-**	**-**	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-045

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-045.1	3	3	2	2
M-BECOE-045.2	3	3	2	2
M-BECOE-045.3	3	3	2	2
M-BECOE-045.4	3	3	2	2
AVERAGE	**3**	**3**	**2**	**2**

M.A. Business Economics 4th Semester	Total Credit: 4
GROUP-I QUANTITATIVE ECONOMICS **Paper- M-BECOE-046 (Elective)** **MATHEMATICAL ECONOMICS-II**	Time: 3 Hrs. Marks: 100 External : 80 Internal : 20

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

  III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-046.1	Learn and compute factor pricing under various market conditions, multi-market equilibrium and thus able to deal with policy issues in context of multi-market system.
M-BECOE-046.2	Understand and derive mathematically the conditions of optimality, social welfare function and thus, able to draw welfare related policy implications.
M-BECOE-046.3	Analyze and present the choices made by consumers, investors and firms under uncertainty and understand the role of time element in project selection and risk - return analysis.
M-BECOE-046.4	Learn and solve input-output model, formulate national income model, inflation–unemployment relationship, multiplier–accelerator interactions and growth models developed by various economists.

Unit – I

Factor Pricing and Multi-market Equilibrium

Pricing of factors of production; Product exhaustion theorems; Multi-market equilibrium - pure exchange, production and exchange, the numeraire and money; Existence, stability and uniqueness of general equilibrium.

Reading List

- Allen, R.G.D. (1972). *Mathematical Economics*. Macmillan, London.
- Allen, R.G.D. (2002). *Mathematical Analysis for Economists*. Macmillan Press and ELBS, London.
- Chiang, A.C. (2005). *Fundamental Methods of Mathematical Economics*. McGraw Hill, New York.
- 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.
- Koutsoyiannis, A. (1979). *Modern Microeconomics*. Macmillan Press, London.
- Sen, A. (1999). *Microeconomics: Theory and Applications*. Oxford University Press.
- Varian, H. (2006). *Microeconomic Analysis*. W.W. Norton, New York.

Unit – II

Welfare Economics

Pareto Optimality; The efficiency of perfect and imperfect competition; The external effects in consumption and production; Social welfare functions- The Arrow impossibility theorem; The Theory of Second Best.

Reading List

- Arrow, K. J. & Intrilligator, M. (Eds.). (1987). *Handbook of Mathematical Economics (Volumes I, II and III).* North Holland, Amsterdam.
- Henderson, J. M. & Quandt, R.E. (2003). *Microeconomic Theory: A Mathematical Approach*, McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1979). *Modern Microeconomics*, Macmillan Press, London.
- Madnani, G.M.K. (2001). *Mathematical Economics: A Mathematical Approach to Microeconomic Theory*. Oxford & IBH Publishers.
- Varian, H. (2006). *Microeconomic Analysis*, W.W. Norton, New York.

Unit – III

Choice Under Uncertainty and Optimization Over Time

Problem of choice in situations of uncertainty and risk; Production under uncertainty; Futures market and hedging; Multi-period consumption; Time value of money and project selection criterion. Risk–return trade off.

Reading List

- Aggarwal, D. R. (2018). *Quantitative Methods.* Vrinda Publications.
- Henderson, J. M. & Quandt, R.E. (2003). *Microeconomic Theory: A Mathematical Approach*, McGraw Hill, New Delhi.
- Mehta, B. C. & Madnani, G. M. K. (2018). *Mathematics for Economists*. Sultan Chand & Sons.
- Varian, H. (2006). *Microeconomic Analysis*. W.W. Norton, New York.
- Vohra, N.D. (2008). *Quantitative Techniques in Management*. Tata McGraw Hill.

Unit – IV

Macroeconomic Models

Input-output model; National Income models (open & closed); 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.

Reading List

- Chiang, A.C. (2005). *Fundamental Methods of Mathematical Economics*. McGraw Hill, New York.
- 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.

Mapping Matrix of Course M-BECOE-046
Table 1: CO-PO Matrix for the Course M-BECOE-046

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-046.1	3	3	3	3	3	2	3	3	-	-	-	3
M-BECOE-046.2	3	3	3	3	3	2	3	3	-	-	-	3
M-BECOE-046.3	3	3	3	3	3	2	3	3	-	-	-	3
M-BECOE-046.4	3	3	3	3	3	2	3	3	-	-	-	3
AVERAGE	**3**	**3**	**3**	**3**	**3**	**2**	**3**	**3**	-	-	-	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-046

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-046.1	2	3	2	2
M-BECOE-046.2	2	3	2	3
M-BECOE-046.3	2	3	2	3
M-BECOE-046.4	2	3	2	2
AVERAGE	**2**	**3**	**2**	**2.5**

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

 III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-047.1	Understand the nature of foreign exchange market in general and of India.
M-BECOE-047.2	Learn the methods of business valuation for merchant banking activities.
M-BECOE-047.3	Understand the impact of various variables on earnings of firm and its value for merger planning.
M-BECOE-047.4	Learn the criterion and methods of foreign investment.

Unit – I

Introduction to Foreign Exchange Market

Foreign Exchange Market: Nature, Structure, Types of transactions, Exchange rate quotation & Arbitrage, Spot & Forward; Foreign Exchange Market in India: Nature, Structure, Operations & Limitations.

Reading List

- Coyle, B. (2000). *Foreign Exchange Markets*. Financial World Publishing, United Kingdom.
- Dun & Bradstreet (2007). *Foreign Exchange Markets*. Tata McGraw-Hill Publishing Company Limited, New Delhi.
- Yadav, S.S., Jain, P.K. & Peyrard, M. (2009). *Foreign Exchange Markets: Understanding Derivatives and Other Instruments*. Macmillan Publishers India Ltd.

Unit – II

Business Valuation and Merger – I

Valuation of a Business; Methods of Valuation: Cashflow Basis, Earning Potential Basis, Growth Rate, Market Price etc. Motives for Merger; Financial Evaluation; Types of Mergers.

Reading List

- Christopher Mercer, Z. & Harms, Travis W. (2008). *Business Valuation – An Integrated Theory.* John Wiley & Sons, United States of America.
- Fred Westan, J. (2001). *Mergers and Acquisitions*. Tata McGraw Hill.
- Pratt, Shannon P., Reilly, Robert F. & Schweihs, Robert P. (1996). *Valuing a Business: The Analysis and Appraisal of Closely Held Companies*. Irwin Professional Publications.
- Shields, Greg (2018). *Business Valuation*. Create Space Independent Publishing Platform.

Unit – III

Business Valuation and Merger – II

Computation of Impact on EPS and Market Price, Determination of Exchange Ratio; Impact of Variation in Growth of the Firms; MBO ; LBO; Boot Strapping; Financing of Merger.

Reading List

- Fred Westan, J. (2001). *Mergers and Acquisitions*. Tata McGraw Hill.

- DePamphilis, Donald (2010). *Mergers Acquisitions and Other Restructuring Activities*. Academics Press.
- Chandrashekar, K. & Vishwanath, S. R. (Eds.). (2019). *Mergers, Acquisitions and Corporate Restructuring: Text and Cases*. Sage Publications.

Unit – IV

Issues in Foreign Investment

Foreign Investment Decision: International Project Appraisal, Exchange Rate Risk & Cost of Capital, International Joint Ventures; A review of NPV Approach; Repositioning of Funds, FDI & FII in India.

Reading List
- Apte, P.G. (2010). *International Financial Management*. Tata McGraw Hill.
- Shapiro, A.C. & Hanouna, Paul (2019). *Multinational Financial Management*. John Wiley & Sons.

Mapping Matrix of Course M-BECOE-047
Table 1: CO-PO Matrix for the Course M-BECOE-047

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-047.1	3	3	3	3	3	2	3	3	-	-	-	3
M-BECOE-047.2	3	3	3	3	3	2	3	3	-	-	-	3
M-BECOE-047.3	3	3	3	3	3	2	3	3	-	-	-	3
M-BECOE-047.4	3	3	3	3	3	2	3	3	-	-	-	3
AVERAGE	**3**	**3**	**3**	**3**	**3**	**2**	**3**	**3**	-	-	-	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-047

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-047.1	2	3	2	-
M-BECOE-047.2	2	3	2	3
M-BECOE-047.3	2	3	2	3
M-BECOE-047.4	2	3	2	3
AVERAGE	**2**	**3**	**2**	**2.25**

M.A. Business Economics 4th Semester	Total Credit: 4
GROUP-II FINANCIAL ECONOMICS	Time: 3 Hrs.
Paper-M-BECOE-048 (Elective)	Marks: 100
FINANCIAL DERIVATIVES	External : 80
	Internal : 20

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

  III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-048.1	Understand the risk and return relationship and compute yields of bond portfolio.
M-BECOE-048.2	Understand and apply the portfolio construction, and asset pricing.
M-BECOE-048.3	Understand and apply the fundamental and technical analysis, and efficiency tests of stock markets.
M-BECOE-048.4	Understand the concept and valuation of derivatives and design hedging strategies.

Unit-I

Derivatives: evolution, functions and participants; forwards and futures contract; pricing of forward and futures contract; the arbitrage argument; value of a forward contract.

Reading List

- Bodie, Z., Kane, A. & Marcus, A.J. (2017). *Investments*. McGraw Hill Education.
- 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.

Unit-II

Commodity futures: pricing and hedging; basis and basis risk; optimal hedge ratio; speculation with commodity futures; Stock and Index Futures: Pricing and Hedging Strategies; Foreign Exchange Futures: Pricing, Speculation and Hedging.

Reading List

- Baillie, Richard T. (1990). *The Foreign Exchange Market*. Cambridge University Press.
- Bodie, Z., Kane, A. & Marcus, A.J. (2017). *Investments*. McGraw Hill Education.
- Grinold, R.C. & Kahn, R.N. (1999). *Active portfolio Management*. McGraw Hill.
- Reilly, F.K. & Brown, K.C. (2012). *Investment Analysis and portfolio management*. South-Western Cengage Learning.

Unit-III

The Options Market; Options Pay-Offs; Option Pricing – Binomial Model, Black - Scholes Model; Option Price Sensitivities: Delta, Gamma, Vega, Rho, Delta Hedging.

Reading List

- Hull, J. (1993). *Options, Futures and Other Derivative Securities*. Prentice Hall.
- Kolb, Robert (1996). *Financial Derivatives*. John Wiley & Sons, USA.
- Reilly, F.K. & Brown, K.C. (2012). *Investment Analysis and Portfolio Management*. South-Western Cengage Learning.

Unit-IV

Hedging strategies with options; combinations of options; exotic options; interest rate swaps and their valuation.

Reading List
- Milne, Frank (2003). *Finance Theory and Asset Pricing*. Oxford University Press.
- Ho, Thomas A. & Lee, Sang Bin (2005). *Securities Valuation: Applications of Financial Modeling*. Oxford University Press.
- Hull, J. (2006). *Options, Futures and Other Derivative Securities. Prentice Hall.*
- Kolb, Robert W. (1996). *Financial Derivatives.* Blackwell Publishing.
- Reilly, F.K. & Brown, K.C. (2012). *Investment Analysis and portfolio management*. South-Western Cengage Learning.

Mapping Matrix of Course M-BECOE-048
Table 1: CO-PO Matrix for the Course M-BECOE-048

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-048.1	3	3	2	2	3	3	2	2	2	-	-	3
M-BECOE-048.2	3	3	3	2	3	2	2	2	2	-	-	3
M-BECOE-048.3	3	3	3	2	3	2	2	2	2	-	-	3
M-BECOE-048.4	3	3	3	2	3	2	2	2	2	-	-	3
AVERAGE	**3**	**3**	**2.75**	**2**	**3**	**2.25**	**2**	2	2	**-**	-	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-048

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-048.1	2	3	3	2
M-BECOE-048.2	2	3	3	2
M-BECOE-048.3	2	3	3	2
M-BECOE-048.4	2	3	3	2
AVERAGE	**2**	**3**	**3**	**2**

M.A. Business Economics 4th Semester	**Total Credit: 4**
GROUP III RESOURCE ECONOMICS **Paper- M-BECOE-049 (Elective)** **ECONOMICS OF ENVIRONMENT AND SOCIAL SECTOR-II**	**Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

   II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

   III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-049.1	After going through this course, the students shall be able to understand various dimensions of sustainable development and their relationships with each other.
M-BECOE-049.2	Learn the development of environmental sustainability approaches and indicators particularly green accounting.
M-BECOE-049.3	To develop a perspective to manage environmental resources in India and to develop understanding about global environmental issues especially climate change.
M-BECOE-049.4	To measure the contribution of human resource development (education and health services) to economy and to address the problems of sufficiency, accessibility, equity, quality, and financing in social sector (education and health services).

Unit-I

Economics of Sustainable Development

Concept, dimensions and indicators of sustainable development; Sustainability rules and approaches; Common-Perrings model; The Solow-Hartwick approach to sustainability; System of Integrated environmental and economic accounting (SEEA).

Reading List

- Hanley, N., Shogern, J.F. & White, B. (1997).*Environmental Economics in Theory and Practice*. Macmillan.
- Sankar, U. (Ed.). (2001). *Environmental Economics*. Oxford University Press, New Delhi.

Unit – II

Environmental Management–I

Management of common property resources; CPRs, LDCs and sustainable development; Subsidies, controls and use of natural capital in India. Political Economy of ecology and equity. Gender perspective in environmental management.

Reading List

- Bhattacharya, Rabindra Nath (2002). *Environmental Economics: An Indian Perspective*. Oxford India.
- Chary, S.N. & Vyasulu, V. (2000). *Environmental Management - an Indian Perspective*. Macmillan, New Delhi.
- Cropper, Maureen (1999). *Valuing Environmental Benefits*. Edward Elgar.
- Hanley, N., Shogern, J.F. & White, B. (1997). *Environmental Economics in Theory and Practice*. Macmillan.
- Sankar, U. (Ed.). (2001). *Environmental Economics*. Oxford University Press, New Delhi.

Unit – III

Environmental Management–II

Environment and energy; Water resource planning; Water and air pollution - existing pollution control mechanisms; People's participation in the management of common and forest lands; The institutions of joint forest management and the joint protected area management; Social forestry — rationale and benefits; Wetlands; Global environmental issues- problems in managing climate change; Trade and environment in WTO regime.

Reading List
- Bhattacharya, Rabindra Nath (2002). *Environmental Economics: An Indian Perspective*. Oxford India.
- Chary, S.N. & Vyasulu, V. (2000). *Environmental Management - an Indian Perspective*. Macmillan, New Delhi.
- Environmental Policy Briefs by IGIDR under Agenda 21.
- Sankar, U. (Ed.). (2001). *Environmental Economics*. Oxford University Press, New Delhi.

Unit – IV

Economics of Education and Health

Education as an instrument for economic growth; Important issues in basic and higher education; Education and labour market — Effects of education, ability and family background on earnings, poverty and income distribution, education and employment; production function models, growth accounting equations of Schultz and Denison, Manpower requirements approach; Economic dimensions of health care and determinants of health; Role of Government and market in health care; Inequalities in health and education – the class and gender perspective; Financing of education and health in India.

Reading List
- Alexander, K. (2008). *Education and Economic Growth: Investment and Distribution of Financial Resources*. Linton Atlantic Books Limited.
- Folland, S., Goodman, Allen C. & Stano, M. (2016). *The Economics of Health and Health Care*. Routledge, New York.
- Meier, G.M. (2000).*Leading Issues in Economic Development*. Oxford University Press.
- Morris, S., Devlin, N. & Parkin, D. (2007). *Economic Analysis in Health Care*. John Wiley & Sons Ltd., England.
- O'Donoghue, M. (2017). *Economic Dimensions in Education*. Routledge, New York.
- Phelps, C. E. (2016). *Health Economics*. Routledge, New York.
- Psacharopoulos, G. (1973). *Returns to Education: An International Comparison*. Elsevier, Amsterdam.
- Schultz, T.W. (1971).*Investment in Human Capital*. Free Press, New York.
- World Bank (1993).*The World Development Report: Investing in Health*. Oxford University Press, New York.

Mapping Matrix of Course M-BECOE-049
Table 1: CO-PO Matrix for the Course M-BECOE-049

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-049.1	3	3	3	2	-	2	2	2	3	-	3	3
M-BECOE-049.2	3	3	3	2	-	2	3	2	3	-	3	3
M-BECOE-049.3	3	3	3	2	-	2	2	3	2	-	3	3
M-BECOE-049.4	3	3	3	3	3	2	3	3	3	-	3	3
AVERAGE	3.00	3.00	3.00	2.25	3	2	2.50	2.50	2.75	-	3.00	3.00

Table 2: CO-PSO Matrix for the Course M-BECOE-049

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-049.1	3	-	3	2
M-BECOE-049.2	3	2	3	2
M-BECOE-049.3	3	-	3	2
M-BECOE-049.4	3	3	3	3
AVERAGE	3.00	1.25	3.00	2.25

M.A. Business Economics 4th Semester **GROUP III RESOURCE ECONOMICS** **Paper-M-BECOE-050 (Elective)** **DEMOGRAPHY-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

I] Nine Questions will be set in all and students will be required to attempt 5 questions.

II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-050.1	Understand logically and critically demographic data base of India and develop the ability to use it in research projects.
M-BECOE-050.2	Understand and explain population migration theoretical framework as well as with special reference to India.
M-BECOE-050.3	Critically analyze various population policies and strategies.
M-BECOE-050.4	Understand and analyze various demographic issues like population aging, demographic dividend and social groups in India.

Unit-I

Demographic Database in India

Census in India – Methodology and Characteristics; Nature of information collected with emphasis on 2001 and 2011 Census. National Family Health Survey – Objectives & Various Rounds. Sample Surveys in India; Registration System in India.

Reading List

- DLHS Reports, www.sciips.org
- Majumdar, P.K. (2010). *Fundamentals of Demography*. Rawat Publication.
- NFHS Reports, www.sciips.org
- Pathak, K.B. & Ram, F. (2016). *Techniques of Demographic Analysis*. Himalaya Publishing House.
- Weinstein, J. & Pillai, V.K. (2015). *Demography: The Science of Population*. Rowman & Littlefield Publications.

Unit-II

Analysis of Migration

Migration: Meaning & Types, Determinants of Migration, Sources of Migration Data, International Migration, Brain Drain and Brain Gain, Theories of Migration, Migration in India.

Reading List

- Harper, S. (2018). *Demography: A Very Short Introduction*. Cambridge University Press.
- Irudaya Rajan, S. & Summeetha, M. (Eds.). (2020). *Handbook of Internal Migration in India*. Sage Publications.
- Mukherji, S. (2013). *Migration in India: Links to Urbanization, Regional Disparities, and Development Policies*. Rawat Publication.

Unit-III

Evolution of Population in India

Shift of Population Policy from Population control to Reproductive and Child health care; Family Planning Strategies and their outcomes; National Population Policy, 2000; National Population Commission.

Reading List

- Bhende, Asha A. & Kanitkar, Tara (2014).*Principles of Population Studies*. Himalaya Publishing House.
- Chandna, R. C. (2014). *A Geography of Population: Concepts, Determinants and Patterns*. Kalyani Publishers.

- Choubey, P.K. (2000). *Population Policy in India. Kanishka Publications*, New Delhi.
- Srinivasan, Krishnamurthy (2017). *Population Concerns in India: Shifting Trends, Policies &Programs*. Sage Publication.
- Srinivasan, Krishnamurthy (2019). *Bharat Mein Jansankhya Sambandhi Mudde*. Sage Publication.

Unit-IV

Demographic Issues in India

Changing Characteristics of Population of India; Strategies for Human Development of Different Social Groups; Rural and Urban Demographics; Population, economy and environment linkage; Population Aging in India- Trends and Issues; Demographic Dividend.

Reading List
- Aggarwal, S.N. (1985). *India's Population Problem*. Tata McGraw-Hill, Mumbai.
- Bose, A. (1996). *India's Basic Demographic Statistics*. B.R. Publishing Corporation, New Delhi.
- Gulati, S.C. (1988). *Fertility in India: An Econometric Study of a Metropolis.* Sage Publications, New Delhi.
- Mishra, J.P. (2018). *Demography*. Sahitya Bhawan Publication.
- Seth, M. (2000). *Women and Development: The Indian Experience*. Sage Publications, New Delhi.

Mapping Matrix of Course M-BECOE-050
Table 1: CO-PO Matrix for the Course M-BECOE-050

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-050.1	3	3	3	3	2	2	3	2	-	-	2	3
M-BECOE-050.2	3	3	3	3	2	2	3	2	-	-	2	3
M-BECOE-050.3	3	3	3	3	2	3	3	2	-	-	2	3
M-BECOE-050.4	3	3	3	3	2	3	3	2	-	-	2	3
AVERAGE	**3**	**3**	**3**	**3**	**2**	**2.5**	**3**	**2**	**-**	**-**	**2**	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-050

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-050.1	3	2	2	3
M-BECOE-050.2	3	2	2	3
M-BECOE-050.3	3	3	2	3
M-BECOE-050.4	3	3	2	3
AVERAGE	**3**	**2.5**	**2**	**3**

M.A. Business Economics 4th Semester **GROUP IV SECTORAL ECONOMICS** **Paper- M-BECOE-051 (Elective)** **ECONOMICS OF AGRICULTURE-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

I] Nine Questions will be set in all and students will be required to attempt 5 questions.

II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-051.1	Understand, analyze and present the concepts of agricultural production functions and factor - product relationships using the tools of micro economics.
M-BECOE-051.2	Understand, critically analyze and present the nature, importance and sources of agricultural credit along with the role of financial institutions dealing with agricultural credit in India.
M-BECOE-051.3	Comprehend, compare, critically analyze and able to present the various theories and models of agricultural development.
M-BECOE-051.4	Attain in-depth understanding of the burning issues in Indian agriculture including liberalization of agricultural trade; implications of WTO and sustainable development; and food security in context of international trade.

Unit – I

Agricultural Production and Its Diversification

Agricultural Production- Stock and Flow Resources, Production Relationships, Resource use and efficiency; Production Functions analyses in agriculture; Factor Relationships – Iso-quant and Iso-cost Line, Optimum Combination; Product Relationships – Joint Products, Competitive Products, Supplementary Products and Antagonistic Products; Diversification of Agricultural Production – Horticulture and Floriculture, Mushroom Cultivation and Processing of Agricultural Products.

Reading List

- Ahuja, S. & Jaggi, P. (2017). Mashroom: Scope and future in India. *Kurukshetra – A Journal on Rural Development*, 65(6), 40-44.
- Gautam, H.R. & Kaushal, R. (2017). Horticulture: The growth engine for agriculture sector. *Kurukshetra – A Journal on Rural Development*, 65(6), 5-9.
- Rawat, S. (2017). Floriculture: Potential source of farmer's income. *Kurukshetra – A Journal on Rural Development*, 65(6), 45-47.
- Sharma, A.K., Wahab, S. & Srivastava, R. (2010). *Agriculture Diversification: Problems and Perspectives*. I.K. International Publishing House Pvt. Ltd., New Delhi.
- Thakur, A.K. & Padmadeo, K.B. (2008). *Growth and Diversification of Agriculture*. Deep & Deep Publications Pvt. Ltd., New Delhi.

Unit – II

Rural Finance

Role of capital and rural credit; Organized and unorganized capital market; Rural savings and capital formation; Characteristics and Sources of rural credit – Institutional and non-institutional; Reorganization of rural credit – cooperatives, commercial banks, regional rural banks; Role of the NABARD.

Reading List

- EPW Research Foundation (2014).*Agricultural Credit in India: Trends, Regional Spreads and Database Issues*. Published by NABARD, 2014.
- Nagaraju, B. (2018). *Recent Trends and Patterns of Agricultural Credit in India*. KY Publications, Guntur, Andhra Pradesh.

- Shandilya, T.K. & Prasad, U. (2003).*Agricultural Credit and NABARD*. Deep & Deep Publications (P) Ltd., New Delhi.
- Singh, B. (2000).*Agricultural Credit: Sources, Problems and Emerging Issues*. Deep & Deep Publications Pvt. Ltd., New Delhi.
- Panda, R.K. (Eds.). (2005).*Emerging Issues on Rural Credit*. APH Publishing Corporation.

Unit III

Theories of Agricultural Development

Schultz's Transformation of Traditional Agriculture; Mellor's Model of Agricultural Development; Boserup Model of Agriculture Development; Ranis – Fie Model of Agriculture Development; Hayami - Ruttan Induced Innovation Hypothesis.

Reading List
- Forster, G.W. & Leager, M.C. (1951). *Elements of Agricultural Economics*. Prentice Hall.
- Cohen, R.L. (2008). *Economics of Agriculture*. Nishet, London.
- Cramer, Gail L., Paudel, Krishna P. & Schmitz, A. (Eds.). (2018). *The Routledge Handbook of Agricultural Economics*. Routledge, New York.

Unit IV

Agriculture and External Sector

Issues in liberalization of domestic and international trade in agriculture; Impact of the World Trade Organization on Indian Agriculture; Agriculture and Environment– Sustainable Development; Food Security and International Trade – Concept, Threat, Indicators and Mechanism to Food Security.

Reading List
- Gulati, A. & Kelly, T. (2001). *Trade Liberalisation and Indian Agriculture*. Oxford University Press.
- Prasad, C.S. (2012). *Agriculture and Sustainable Development in India*. New Century Publications.
- Rudra, A.(1982). *Indian Agricultural Economics: Myths and Reality*. Allied Publishers, New Delhi.
- Singh, K. (2006). Indian Agriculture Trade in Pre and Post WTO Regime: A Comparative Study. *K.U.R.J. (Arts & Humanities)*, 40.

Mapping Matrix of Course M-BECOE-051
Table 1: CO-PO Matrix for the Course M-BECOE-051

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-051.1	3	3	3	2	2	-	3	2	-	-	-	3
M-BECOE-051.2	3	3	3	2	-	-	3	2	-	-	-	3
M-BECOE-051.3	3	3	3	2	-	-	2	2	-	-	-	3
M-BECOE-051.4	3	3	3	2	2	-	3	2	-	-	-	3
AVERAGE	**3**	**3**	**3**	**2**	**1.25**	-	**2.75**	2	**-**	**-**	-	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-051

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-051.1	3	2	2	3
M-BECOE-051.2	3	2	2	2
M-BECOE-051.3	2	2	2	3
M-BECOE-051.4	3	2	2	2
AVERAGE	**2.75**	**2**	**2**	**2.5**

M.A. Business Economics 4th Semester **GROUP IV SECTORAL ECONOMICS** **Paper- M-BECOE-052 (Elective)** **INDUSTRIAL ECONOMICS-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter
   I] Nine Questions will be set in all and students will be required to attempt 5 questions.
  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).
  III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-052.1	Understand, compare and analyse various product pricing methods along with their merits and limitations.
M-BECOE-052.2	Comprehend, compare and able to present various project evaluation criteria and understand both theoretical as well as empirical evidence about mergers and acquisitions.
M-BECOE-052.3	Getting familiar with various aspects of Industrial policy in India along with key issues, challenges and its appropriateness.
M-BECOE-052.4	Understand and present in detail the technical aspects of firms' advertising decisions making based on different models.

Unit-I

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.

Reading List
- Barthwal, R. R. (1985). *Industrial Economics*. Wiley Eastern Ltd., New Delhi.
- 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.

Unit-II

Project Evaluation and Theories of Mergers
Methods of project evaluation; Risk & uncertainties in project appraisal; NPV v/s IRR; Theories and empirical evidence on Mergers and Acquisitions (M & A's) and diversification; Mergers and the Valuation; Discrepancies Hypothesis; Mueller's Model of Conglomerate Mergers; Corporate Governance Mechanisms.

Reading List
- Bains, J. S. (1996). *Industrial Organization*. Cheltenham, U. K.
- Barthwal, R. R. (1985). *Industrial Economics*. Wiley Eastern Ltd., New Delhi.
- 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.

Unit-III

Industrial Policy
Industrial Policy in India – evolution and paradigm shift; Recent trends in Indian industrial growth; National manufacturing Policy; MNCs, transfer of technology and issues related with TRIMS; Competition policy;

Industrial sickness; Exit policy; Role of BIFR.

Reading List
- Bains, J. S. (1996). *Industrial Organization*. Cheltenham, U. K.
- Barthwal, R. R. (1985). *Industrial Economics*. Wiley Eastern Ltd., New Delhi.
- Divine, P. J., Lee, N., Jones, R. M. & Tyson, W.J. (2018). *An Introduction to Industrial Economics*. Routledge.
- Hay, D. & Morris, D. J. (1979). *Industrial Economics: Theory and Evidence*. Oxford University Press, New Delhi.

Unit-IV

Advertising Decisions of Firm

The Advertising Decision: Marginalistic, Profit-Maximising Models of The Advertising Decision; Buchanan's Advertising-Price Model; Schmalensee's Model of Oligopoly Advertising; A Managerialist Model of Advertising: The Baumol-Hawkins, Bushnell-Kafoglis Static Model; A Model of Advertising Barriers: Williamson's Model of Advertising as an Entry; Prevention Strategy; Effects of Advertising.

Reading List
- 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 Press, New Delhi.
- 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, New York.
- Symeonidis, George (1999).*Industrial Economics*. University of London Study Guide (SG).

Mapping Matrix of Course M-BECOE-052
Table 1: CO-PO Matrix for the Course M-BECOE-052

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-052.1	3	3	3	2	2	2	2	3	-	2	-	3
M-BECOE-052.2	3	3	3	3	2	2	2	3	-	2	-	3
M-BECOE-052.3	3	3	3	2	2	2	2	3	-	2	-	3
M-BECOE-052.4	3	3	3	3	2	2	2	3	-	2	-	3
AVERAGE	**3**	**3**	**3**	**2.5**	**2**	**2**	**2**	3	**-**	**2**	-	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-052

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-052.1	3	3	3	2
M-BECOE-052.2	3	3	3	2
M-BECOE-052.3	3	3	3	2
M-BECOE-052.4	3	3	3	2
AVERAGE	**3**	**3**	**3**	**2**

M.A. Economics 4th Semester **GROUP V ECONOMICS OF TXATION** **Paper- M-BECOE-053 (Elective)** **DIRECT TAXES-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

   I] Nine Questions will be set in all and students will be required to attempt 5 questions.

  II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

 III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-053.1	Understand and analyze the procedure of calculating income obtained from salaries and allowances. And get an idea of the income tax provisions regarding standard deductions and valuation of perquisites.
M-BECOE-053.2	In-depth knowledge of the components of house property, the income from which are taxable. Understand the method of measuring annual value of the house property along with relevant deductions.
M-BECOE-053.3	Comprehend, compare and able to present the various rules of charging income tax from profits and gains of business or profession. And know to classify expenses according to expressly allowed and disallowed categories while calculating income from business or profession. Besides, appreciate the conditions in which an assessee can claim depreciation.
M-BECOE-053.4	Ability to identify the capital assets and understand the computations of short term as well as long term gains on these assets which are subjected to income tax along with the deductions as well as exemptions that are available while calculating these gains.

Unit-I

Computation of Income under the Head Salaries: Salaries and Allowances, Valuation of Perquisites, Deductions.

Reading List

- Ahuja, G. & Gupta, R. (2020). *Professional Approach to Direct Tax Laws and International Taxation*. Wolters Kluwer (India) Pvt. Ltd., Mohali, Punjab.
- Balachandran, V. & Thothadri, S. (2013). *Taxation Law and Practice*. PHI Learning Private Limited, New Delhi.
- Hariharan, N. (2009). *Income Tax: Law and Practice*. Tata McGraw-Hill Publishing Company Limited, New Delhi.
- Jain, R.K. (2020). *Income Tax: Law and Practice*. SBPD Publications.
- Mehrota, H.C. & Goyal, S.P. (2020). *Income Tax: Law and Accounts*. Sahitya Bhavan Publications, Agra.
- Singhania, V.K. (2012). *Taxmann's Direct Taxes: Law and Practice*. Taxmann Publications.

Unit-II

Computation of Income under the Head House Property: Valuation of Property; Annual Value; Deductions.

Reading List

- Hariharan, N. (2009). *Income Tax: Law and Practice*. Tata McGraw-Hill Publishing Company Limited, New Delhi.
- Jain, R.K. (2020). *Income Tax: Law and Practice*. SBPD Publications.
- Mehrota, H.C. & Goyal, S.P. (2020). *Income Tax: Law and Accounts*. Sahitya Bhavan Publications, Agra.

Unit-III

Profits and Gains of Business or Profession: Deductions, Expressly Allowed and Disallowed; Depreciation.

Reading List

- Ahuja, G. & Gupta, R. (2020). *Professional Approach to Direct Tax Laws and International Taxation*. Wolters Kluwer (India) Pvt. Ltd., Mohali, Punjab.

- Hariharan, N. (2009). *Income Tax: Law and Practice*. Tata McGraw-Hill Publishing Company Limited, New Delhi.
- Mehrota, H.C. & Goyal, S.P. (2020). *Income Tax: Law and Accounts*. Sahitya Bhavan Publications, Agra.
- Singhania, V.K. (2012). *Taxmann's Direct Taxes: Law and Practice*. Taxmann Publications.

Unit-IV

Capital Gains: Transfer; Chargeability; Short-Term and Long-Term Capital Gains; Cost of Acquisition; Capital Gains Exempt from Income Tax.

Reading List
- Balachandran, V. & Thothadri, S. (2013). *Taxation Law and Practice*. PHI Learning Private Limited, New Delhi.
- Hariharan, N. (2009). *Income Tax: Law and Practice*. Tata McGraw-Hill Publishing Company Limited, New Delhi.
- Jain, R.K. (2020). *Income Tax: Law and Practice*. SBPD Publications.
- Mehrota, H.C. & Goyal, S.P. (2020). *Income Tax: Law and Accounts*. Sahitya Bhavan Publications, Agra.
- Singhania, V.K. (2012). *Taxmann's Direct Taxes: Law and Practice*. Taxmann Publications.

Mapping Matrix of Course M-BECOE-053
Table 1: CO-PO Matrix for the Course M-BECOE-053

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-053.1	3	3	3	2	2	2	2	2	2	-	-	3
M-BECOE-053.2	3	3	3	3	2	2	2	2	2	-	-	3
M-BECOE-053.3	3	3	3	2	2	2	2	2	2	-	-	3
M-BECOE-053.4	3	3	3	3	2	2	2	2	2	-	-	3
AVERAGE	**3**	**3**	**3**	**2.5**	**2**	**2**	**2**	**2**	**2**	-	-	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-053

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-053.1	3	3	3	2
M-BECOE-053.2	3	3	3	2
M-BECOE-053.3	3	3	3	2
M-BECOE-053.4	3	3	3	2
AVERAGE	**3**	**3**	**3**	**2**

M.A. Business Economics 4th Semester **GROUP V ECONOMICS OF TXATION** **Paper- M-BECOE-054 (Elective)** **CORPORATE TAX PLANNING**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

I] Nine Questions will be set in all and students will be required to attempt 5 questions.

II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes

M-BECOE-054.1	Understand the concept, methods and justification for tax planning at corporate level.
M-BECOE-054.2	In-depth knowledge of the impact of tax planning and managerial decisions.
M-BECOE-054.3	Able to devise the strategies for the firms to be benefitted from different tax agreements among countries.
M-BECOE-054.4	Ability to identify the issues of tax planning with mergers, acquisitions and takeovers.

Unit-I

Concept of tax planning; Tax avoidance and tax evasions; Methods of tax planning; justification of tax; Computation of income for joint stock company including house property, Business and profession, capital gain and income from other sources.

Reading List

- Acharya, S. & Gurha, M.G. (2005). *Tax Planning under Direct Taxes*. Modern Law Publications, Allahabad.
- Ahuja, Girish & Gupta, Ravi (2020). *Simplified Approach to Corporate Tax Planning & Management*. Wolters Kluwer (India) Pvt. Ltd.

Unit-II

Tax Planning and Financial Management Decisions : Tax planning relating to capital structure decision, dividend policy, Inter- corporate dividends and bonus shares.; Tax Planning and Managerial Decisions : Tax planning in respect of own or lease, sale of assets used for scientific research, make or buy decisions; Repair, Replace, renewal or renovation and shutdown or continue decisions.

Reading List

- Mehrotra, H.C. & Goyal, S.P. (2020). *Corporate Tax Planning and Management*. Sahitya Bhawan Publications, Agra.
- Singhania, V.K. & Singhania, M. (2009). *Corporate Tax Planning & Business Tax Procedures*. Taxmann Publications Pvt. Ltd.

Unit-III

Tax Planning and Compensations Package; Double taxation avoidance agreements; Tax Planning and non-residents; Tax provisions relating to free trade zones, backward area and Infrastructure sectors.

Reading List

- Mittal, D.P. (2009). *Taxmann's Law of Transfer Pricing in India*. Taxmann Publications, New Delhi.
- Pagare, D. *Direct Tax Planning and Management*. New Delhi: Sultan Chand and Sons, New Delhi.
- Karayan, J.E. & Swenson, C.W. (2007). *Strategic Business Tax Planning*. John Wiley & Sons, Inc., New Jersey.

Unit-IV

Tax issues relating to amalgamation, merger acquisition; Tax payment, tax deduction and collection at source, advance Payment of Tax.

Reading List

- Ahuja, Girish & Gupta, Ravi (2020). *Simplified Approach to Corporate Tax Planning & Management*. Wolters Kluwer (India) Pvt. Ltd.
- Mehrotra, H.C. & Goyal, S.P. (2020). *Corporate Tax Planning and Management*. Sahitya Bhawan Publications, Agra.

Mapping Matrix of Course M-BECOE-054
Table 1: CO-PO Matrix for the Course M-BECOE-054

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-054.1	3	3	3	2	2	2	2	2	2	-	-	3
M-BECOE-054.2	3	3	3	3	2	2	2	2	2	-	-	3
M-BECOE-054.3	3	3	3	2	2	2	2	2	2	-	-	3
M-BECOE-054.4	3	3	3	3	2	2	2	2	2	-	-	3
AVERAGE	**3**	**3**	**3**	**2.5**	**2**	**2**	**2**	2	2	-	-	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-054

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-054.1	3	3	3	2
M-BECOE-054.2	3	3	3	2
M-BECOE-054.3	3	3	3	2
M-BECOE-054.4	3	3	3	2
AVERAGE	**3**	**3**	**3**	**2**

M.A. Business Economics 4th Semester **GROUP VI DATA ANALYTICS** **Paper-M-BECOE-055 (Elective)** **DISSERTATION**	**Total Credit: 4** **Marks: 100** **External : 80** **Internal : 20**

Course Outcomes

M-BECOE-055.1	To conceptualize and formulate a feasible research problem demonstrating the ability to apply the acquired knowledge to the real life problems.
M-BECOE-055.2	To develop hypotheses and assumptions besides demonstrating the data collection and analytical skills.
M-BECOE-055.3	To develop creativity and originality along with the ability to integrate interdisciplinary knowledge.
M-BECOE-055.4	To demonstrate effective writing skills and follow ethical considerations.

Dissertation Format

General Introduction to the Study

Review of Literature

Research Gap

Statement of the problem

Significance of the Study

Formulation of Research Questions /Issues

Research objectives

Hypotheses

Conceptual Framework – Conceptualization & Operationalization (precise and specific meaning of the terms and concepts)

Theoretical framework

Analytical Framework

Data source (Primary/Secondary)

Sampling framework

Pilot Survey, if needed

Tools of analysis (Analytical Framework)

Limitations of the study

Chapter outlines

Chapters

Analysis of Data

Discussion of the Results

Major findings, Summary, Recommendations (if any) and Conclusion

Bibliography /References &Webliography

Appendices

Dissertation: Sequencing of Contents

	1.1. Title page	**1.6 The Main Text**	
	Title of the Dissertation	a. Introductory Chapter: Items 3 to 16 mentioned above	
	Name of the candidate	b. Other Chapters- Analysis, Results Interpretation	
	Name and designation of the Supervisor	c. Conclusion Chapter: Conclusions, Recommendations & Summary	
	Degree for which Dissertation is submitted	**1.7 End Notes (after each Chapter)**	
	Name of the Department	**1.8 Bibliography or References (at the end of the Dissertation)**	
	Month and year of submission of Dissertation		
	1.2 Declaration of the student & supervisor	**1.9 Appendices**	
	1.3 Preface	Questionnaire	
		Interview Schedule	
	1.4 Table of contents	Observation Schedule (optional)	

		Coding Frame (optional)	
	List of Tables	Letters sent to sample members (optional)	
	List of Figures	Any Other	
	Glossary.		
	List of abbreviations		
	Acknowledgment		
	1.5 Abstract/ Executive Summary (One page)		
General Directions			
a. Report length 80 to 100 pages excluding Appendix and Certificates .			
b. Alignment: Justify			
c. Font: Times New roman			
d. Font size: 12			
e. Line spacing: 1.5			
f. Double line Page Border			
g. Style of The Report: Chicago Manual of Style (CMS) or American Psychological Association Style (APA)			

Mapping Matrix of Course M-BECOE-055
Table 1: CO-PO Matrix for the Course M-BECOE-055

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-055.1	3	3	3	3	2	3	3	2	3	-	3	3
M-BECOE-055.2	3	3	3	3	3	2	2	2	2	-	3	3
M-BECOE-055.3	3	3	3	3	3	3	3	2	3	-	3	3
M-BECOE-055.4	3	3	3	3	3	3	3	2	3	-	3	3
AVERAGE	**3**	**3**	**3**	**3**	**2.75**	**2.75**	**2.75**	**2**	**2.75**	**-**	**3**	**3**

Table 2: CO-PSO Matrix for the Course M-BECOE-055

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-055.1	3	3	3	2
M-BECOE-055.2	3	3	3	2
M-BECOE-055.3	3	3	3	2
M-BECOE-055.4	3	3	3	2
AVERAGE	**3**	**3**	**3**	**2**

M.A. Business Economics 4th Semester **GROUP VI DATA ANALYTICS** **Paper-M-BECOE-056 (Elective)** **DATA ANALYTICAL TECHNIQUES-II**	**Total Credit: 4** **Time: 3 Hrs.** **Marks: 100** **External : 80** **Internal : 20**

Note For the paper Setter

    I] Nine Questions will be set in all and students will be required to attempt 5 questions.

    II] Question No. 1 will be compulsory and will consist of 8 short answer type questions of 2 marks spread over the entire syllabus (2*8=16 marks).

    III] For the remaining four questions, students will attempt 1 out of 2 questions from each of the four units (16 marks each).

Course Outcomes	
M-BECOE-056.1	Learn to prepare database for analysis and present the results of univariate analysis.
M-BECOE-056.2	Learn to estimate the linear relationships by regression analysis.
M-BECOE-056.3	Learn to use the dummy variables in regression and estimation of time series processes.
M-BECOE-056.4	Learn to analyze the experimental data.

Unit-I

Data Processing

Major Sources of data in Economics; Preparation of database for analysis in a worksheet; Refinement and validation of primary and secondary data; Presentation of nature of distributions using univariate analysis with worksheet software.

Reading List
- Kothari, C.R. (2013). *Research Methodology: Methods and Techniques*. New Age International Publication, New Delhi.
- Nargundkar, R. (2017). *Marketing Research-Text and Cases*. Tata McGraw Hill, New Delhi.
- Luck, David J & Rubin, Ronald S. *Marketing Research 7th ed.,* Prentice Hall of India

Unit-II

Regression Analysis Using SPSS

Estimation of Classical Linear Regression Model and testing of coefficients and significance of overall equation with SPSS; Diagnosis and remedy of multicollinearity, hetereoscedasticity and autocorrelation (two methods each). Use of OLS method in estimation of growth rates and Cobb-Douglas Production Function.

Reading List
- Gujarati, D.N. (1995).*Basic Econometrics*. McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1977).*Theory of Econometrics*. The Macmillan Press Ltd. London.

Unit-III

Dummy Variables and Time Series Analysis Using Software Package

Use of Dummy variables as independent variables in regression analysis; Estimation of various types of time series processes; Detection of stationarity (with unit root tests), Co-integration and Standard Granger causality using a software package.

Reading List
- Gujarati, D.N. (1995).*Basic Econometrics*. McGraw Hill, New Delhi.
- Koutsoyiannis, A. (1977).*Theory of Econometrics*. The Macmillan Press Ltd. London.

Unit-IV
Analysis of Variance (ANOVA) and Experimental Data

Completely randomized design, Block randomized design, Latin square design and simple factorial design with SPSS.

Reading List
- Blischke, W. R. & Prabhakar Murthy, D.N. (2000). *Reliability, Modeling, Prediction and Optimization*. John Wiley & Sons, Inc.
- Kothari, C.R. (2013). *Research Methodology: Methods and Techniques*. New Age International Publication, New Delhi.
- Luck, David J & Rubin, Ronald S. *Marketing Research 7th ed.,* Prentice Hall of India
- Nargundkar, R. (2017).*Marketing Research-Text and Cases*. Tata McGraw Hill, New Delhi.

Mapping Matrix of Course M-BECOE-056
Table 1: CO-PO Matrix for the Course M-BECOE-056

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOE-056.1	3	3	3	3	3	3	2	2	2	-	2	2
M-BECOE-056.2	3	3	3	3	3	3	2	2	2	-	2	2
M-BECOE-056.3	3	3	3	3	3	3	2	2	2	-	2	2
M-BECOE-056.4	3	3	3	3	3	3	2	2	2	-	2	2
AVERAGE	**3**	**3**	**3**	**3**	**3**	**3**	**2**	**2**	**2**	-	**2**	**2**

Table 2: CO-PSO Matrix for the Course M-BECOE-056

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-BECOE-056.1	3	3	2	3
M-BECOE-056.2	3	3	2	3
M-BECOE-056.3	3	3	2	3
M-BECOE-056.4	3	3	2	3
AVERAGE	**3**	**3**	**2**	**3**

KURUKSHETRA UNIVERSITY, KURUKSHETRA	Total Credit: 2
M.A. Economics 2nd Semester **OESS Paper- M-ECO- GE/02 (Compulsory) w.e.f 2020-21** **INTRODUCTION TO ECONOMICS**	Time: 2 Hrs. Marks: 50

Note: Attempt any four questions out of the eight questions. All questions carry equal marks.

Course Outcomes	
M-ECO- GE/02.1	Know and able to present the scope of economics along with its two main branches namely microeconomics and macroeconomics.
M-ECO- GE/02.2	Ability to analyze and explain various forms of costs, revenue, factors of production and markets using the analytical tools of microeconomics.
M-ECO- GE/02.3	Know to construct HDI and GDI as the measures of economic development and to compute budget and fiscal deficits and thus enter into the field of policy making.
M-ECO- GE/02.4	Able to analyze and present some basic concepts from open-macroeconomics.

Unit-I

Scope of Economics

Micro and Macro Economics; Central Economic Problems; Features of Capitalist Economy, Socialist Economy and Mixed Economy; Role of Government in a Market Economy; Demand and Factors Affecting Demand; Supply and factors Affecting supply.

Reading List
- Anderton, A. (2008).*Economics*. Dorling Kindersley (India) Pvt. Ltd., New Delhi.
- Sowell, T. (2011). Basic Economics: A common Sense Guide to the Economy. Basic Books, New York.

Unit-II

Introduction to the theory of firm

Factors of Production; Cost Concepts; Revenue Concepts; Market Forms and their Features.

Reading List
- Mankiw, G. N. (2018). *Principles of Economics*. South-Western Cengage Learning, USA.

Unit-III

Topics in Economics of Development

Concept of Economic Growth and Economic Development; Human Development Index (HDI); Gender Development Index (GDI); Budget and Fiscal Deficits; Types of Unemployment; Concepts of Saving and Investment.

Reading List
- Samuelson, P.A. & Nordhaus, W.D. (2010). *Economics*. Tata McGraw-Hill.

Unit-IV

Introduction to Balance of Payment

Current Account and Capital Account; Balance of Payment and Balance of Trade; Concept of Exchange Rate.

Reading List
- Dwivedi, D.N. (2010). *Macroeconomics: Theory and Policy*. Tata McGraw Hill Education Pvt. Ltd. New Delhi.

Mapping Matrix of Course M-ECO- GE/02

Table 1: CO-PO Matrix for the Course M-ECO-GE/02

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-ECO- GE/02.1	3	2	3	2	2	2	3	3	-	-	3	2
M-ECO- GE/02.2	3	3	2	2	2	2	2	3	-	-	2	2
M-ECO- GE/02.3	3	3	3	3	3	2	3	3	-	-	2	2
M-ECO- GE/02.4	3	2	2	2	2	2	3	3	-	-	2	2
AVERAGE	3	2.5	2.5	2.25	2.25	2	2.75	3	-	-	2.25	2

Table 2: CO-PSO Matrix for the Course M-ECO-GE/02

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-ECO- GE/02.1	3	2	3	3
M-ECO- GE/02.2	2	2	3	3
M-ECO- GE/02.3	3	3	3	3
M-ECO- GE/02.4	3	2	3	3
AVERAGE	2.75	2.25	3	3

KURUKSHETRA UNIVERSITY, KURUKSHETRA M.A. Economics 3rd Semester **OESS Paper- M-ECO- GE/12 (Compulsory) w.e.f 2021-22** **INDIAN ECONOMIC POLICY**	**Total Credit: 2** **Time: 2 Hrs.** **Marks: 50**

Note: Attempt any four questions out of the eight questions. All questions carry equal marks.

Course Outcomes	
M-ECO- GE/12.1	Know the scope of Indian economy in current era. And understand and able to present the conceptual framework of national income and poverty removal programmes.
M-ECO- GE/12.2	Able to make critical analysis of direct and indirect taxes. Moreover, understand and analyze the causes of inflation and instruments of fiscal policy in Indian economy.
M-ECO- GE/12.3	Ability to analyze the role of agriculture, industry and service sectors in Indian economy and understand the concepts of liberalization, privatization and globalization.
M-ECO- GE/12.4	Comprehend and present the concept of money along with the functions of commercial banks as well as RBI.

Unit-I

Introduction to Indian Economy

Basic Features of Indian Economy in Present Times; Basic Concepts in National Income; Poverty Alleviation Programmes in India.

Reading List
- Datt, G. & Mahajan, A. (2020). *Datt & Sundharam's Indian Economy*. S. Chand Publishing, New Delhi.
- Kapila, U. (2015). *Indian Economy - Performance and Policies*. Academic Foundation.

Unit-II

Topics in Public Finance

Direct Taxes and Indirect Taxes- Types, Merits and Demerits; Fiscal Policy and its Instruments; Causes of Inflation in India.

Reading List
- Dhar, P.K. (2020). *Indian Economy: Its Growing Dimensions*. Kalyani Publishers, New Delhi.
- Gupta, J.R. *Public Economics in India – Theory and Practice*. Atlantic Publishers.
- Ministry of Finance (2020). *Union Budget*. Government of India.
- Monthly Issues of *Yojana-A Development Monthly*.

Unit-III

Sectoral Contributions in Indian Economy

Role of Agricultural Sector in India; Role of Industrial Sector in India; Role of Service Sector in India; Liberalisation, Privatisation and Globalisation- Concepts Only.

Reading List
- Kapila, U. (2018). *Indian Economy Since Independence*. Academic Foundation.
- Ministry of Finance (2020). *Economic Survey*. Government of India.
- Mishra, S.K. & Puri, V.K. (2020).*Indian Economy*. Himalaya Publications, New Delhi.
- Monthly Issues of *Kurukshetra-A Journal on Rural Development*.
- RBI (2020). *Handbook of Statistics on Indian Economy 2019-20*. Government of India.
- RBI (2019). *Handbook of Statistics on Indian States 2018-19*. Government of India.

Unit-IV

Money and Banking

Money and its Functions; Commercial Banks and their Functions; Functions of RBI; Monetary Policy and its Instruments**.**

Reading List
- Datt, G. & Mahajan, A. (2020). *Datt & Sundharam's Indian Economy*. S. Chand Publishing.
- Paul, R. R. (2010). *Monetary Economics*. Kalyani Publishers, New Delhi.

Mapping Matrix of Course M-ECO-GE/12
Table 1: CO-PO Matrix for the Course M-ECO-GE/12

COURSE OUTCOMES	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-ECO- GE/12.1	3	3	3	3	3	2	3	3	-	-	3	2
M-ECO- GE/12.2	3	3	2	2	2	2	3	2	-	-	3	2
M-ECO- GE/12.3	3	3	3	3	3	2	3	2	-	-	3	2
M-ECO- GE/12.4	3	3	3	3	3	2	3	2	-	-	3	2
AVERAGE	**3**	**3**	**2.75**	**2.75**	**2.75**	**2**	**3**	**2.25**	-	-	**3**	**2**

Table 2: CO-PSO Matrix for the Course M-ECO-GE/12

CO	PSO 1	PSO 2	PSO 3	PSO 4
M-ECO- GE/12.1	3	3	2	2
M-ECO- GE/12.2	3	2	3	3
M-ECO- GE/12.3	3	3	2	3
M-ECO- GE/12.4	3	3	3	2
AVERAGE	**3**	**2.75**	**2.5**	**2.5**

CO-PO-PSO MAPPING: MA BUSINESS ECONOMICS

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
M-BECOC-001	3	3	3	2.25	2.25	2.25	2	3	2.25	2	3	2.25	3	2.25	2.75	3
M-BECOC-002	2.75	2.50	2.75	2.75	2.50	2.00	-	2.50	2	-	2.00	2.00	2.75	2	3.00	2.75
M-BECOC-003	3	3	3	2.25	3	3	2	3	-	-	2	3	2.6	2.8	2.4	3.2
M-BECOC-004	3	3	3	2.5	2	2	3	-	3	-	2.5	-	2.5	2.6	3	2.5
M-BECOC-005																
M-BECOE -019	3	3	3	2.5	2	2	3	3	3	3	2.5	2	2.5	2.6	3	2.5
M-BECOE -020	3	3	3	2.5	2	2	3	3	3	3	2.5	2	2.5	2.6	3	2.5
M-BECOE -021	3	3	3	3	2	2.5	3	2	2	2	3	3	2	2	2	2
M-BECOE -022																
M-BECOE -023	3	3	3	2.25	2.00	2.25	2.00	-	2	-	2.00	2.50	2.75	2.50	2.75	2.50
M-BECOE -024	3	3	3	3	2	2.75	2	2	-	-	-	2.25	3	2	3	3
M-BECOE -025	3	3	3	2	3	3	3	2	-	-	-	3	3	3	3	2
M-BECOC-006	3	3	3	3	3	2	2	2	2	2	2	2	3	2.75	3	3
M-BECOC-007	3.00	2.50	3.00	2.75	2.25	2.00	2	2.75	-	-	-	2.00	3.00	2.50	3.00	2.25
M-BECOC-008	3	3	3	3	3	2	2	2	-	-	-	3	3	3	2	2
M-BECOC-009	3	3	3	2	2	2	3	-	3	-	-	2	3	2	3	2.75
M-BECOC-010	3	3	3	3	3	3	-	3	3	-	3	3	2.5	2.75	3	2.5
M-BECOE -026	3	3	3	3	3	3	3	2	2	3	3	3	2	3	3	2
M-BECOE -027	3	3	3	2	2	3	3	2	3	2	2.5	2	2.5	2	3	2.25
M-BECOE -028	2	2	2	2	2	2.5	3	2	2	2	2	2	2	2	2	2
M-BECOE -029	2	2	2	2	2	2.5	3	2	2	2	2	2	2	2	2	2
M-BECOE -030	3.00	3.00	3.00	2	2.25	2.00	2	2.00	2	2	3.00	2.25	2.25	2	2.00	2
M-BECOE -031	3	3	3	3	2	2	2.25	3	2	2	3	2	3	2	3	3
M-BECOE -032	3	2	3	2	2	2.5	3	2	2	2	3	2	2	2	2	2
M-ECO-GE 1 To 10																
M-BECOC-011	3	3	3	3	2.25	2.5	2.5	-	-	-	3	3	3	3	3	2
M-BECOC-012	3	2.5	3	2.5	2	2.5	3	2	-	-	2	2	3	2	2	2
M-BECOC-013	3.00	2.50	3.00	2.50	2.50	2.00	2	3.00	2.00	2	2.00	2.50	3.00	3.00	2.25	2
M-BECOC-014																
M-BECOE -033	3	2.5	3	3	3	2.5	3	2	-	-	2	3	3.00	2.5	2	2
M-BECOE -034	3	3	3	2	3	2	3	-	-	-	3	3	3	3	2	3
M-BECOE -035	3	3	3	3	3	3	3	3	-	-	-	3	2	3	3	2
M-BECOE -036	3	3	2.75	2	3	2.25	2	3	2	-	-	3	2	3	3	2
M-BECOE -037	3.00	2.5	2.75	2.50	2.25	2.75	3.00	2.50	2.75	2	2	2.33	3.00	3.00	3	2.25
M-BECOE -038	3	2	3	3	2	2.5	3	2	-	-	-	2	3	3	2	2
M-BECOE -039	3.00	2.25	2.75	2.50	2	2	2	2.25	2.00	2.00	2.00	2.00	2.25	2.5	2.75	2.75
M-BECOE -040	3	3	3	2	2	2	2	2	-	-	-	3	3	3	3	2
M-BECOE -041	3	2.5	2	-	2	2	2	2	-	-	-	3	3	2	2	2
M-BECOE -042	2	2	2	2	2	2	2	2	2	-	2	2	2	2	2	2
M-BECOE -043																
M-BECOE -044																
M-ECO-GE 11 To 20																
M-BECOC-015	3	3	3	3	3	2.5	3	3	-	-	-	3	3	3	3	2
M-BECOC-016	3	2.5	3	2.5	2	2.5	3	2	-	-	-	3	2	2	2	2
M-BECOC-017	2.75	2.75	2.75	2.50	3.00	2.50	1.75	3.00	2	2.00	2.00	3	3.00	3.00	2.33	2.33
M-BECOC-018																
M-BECOE -045	3	2.5	3	3	3	2.5	3	2	-	-	-	3	3.00	3.00	2	2
M-BECOE -046	3	3	3	3	3	2	3	3	-	-	-	3	2	3	2	2.5
M-BECOE -047	3	3	3	3	3	2	3	3	-	-	-	3	2	3	2	3
M-BECOE -048	3	3	2.75	2	3	2.25	2	2	2	-	-	3	2	3	3	2
M-BECOE -049	3.00	3.00	3.00	2.25	3	2	2.50	2.50	2.75	-	3.00	3.00	3.00	2.50	3.00	2.25
M-BECOE -050	3	3	3	3	2	2.5	3	2	-	-	2	3	3	2.5	2	3
M-BECOE -051	3	3	3	2	1.25	-	2.75	2	-	-	-	3	2.75	2	2	2.5
M-BECOE -052	3	3	3	2.5	2	2	2	3	-	2	-	3	3	3	3	2

M-BECOE -053	3	3	3	2.5	2	2	2	2	2	-	-	3	3	3	3	2
M-BECOE -054	3	3	3	2.5	2	2	2	2	2	-	-	3	3	3	3	2
M-BECOE -055																
M-BECOE -056																

Attainment of COs:

The attainment of COs can be measured on the basis of the results of internal assessment and semester examination. The attainment is measured on scale of 3 after setting the target for COs attainment. **Following table** shows the CO attainment levels assuming the set target of 60% marks:

CO Attainment Levels for internal assessment

Attainment Level	
1 (Low level of attainment)	60% of students score more than 60% of marks in class tests of a course.
2 (Medium level of attainment)	70% of students score more than 60% of marks in class tests of a course.
3 (High level of attainment)	80% of students score more than 60% of marks in class tests of a course.

Note: In the above table, the set target is assumed as 60%. It may vary in different departments/institutes. The staff councils of the Departments/institutes may finalize the set target.

A proper mapping of course outcomes with assessment methods should be defined before measuring the attainment level. The questions in tests for internal assessment are based on COs. Here it is assumed that class test-I is based on first two COs **(e.g. M-ECOC-001.1 and M-ECOC -001.2 in case of Microeconomic Analysis)** of a course with equal weightage given to both COs. Similarly, class test-II is based on next two COs (**e.g. M-ECOC-001.3 and M-ECOC -001.4 in case of Microeconomic Analysis**) of a course with equal weightage given to these two COs. For each internal assessment test, the percentage of students attaining the target level of CO is estimated and average percentage will decide the attainment level of COs. Following steps may be followed for determining the attainment level in internal assessment of a course.

(i) Estimate the %age of students scoring set target (say 60%) or more in the question(s) of test -I based on first CO e.g.**M-ECOC-001.1.**

(ii) Estimate the %age of students scoring set target (60%) or more in the question(s) of test-I based on second CO e.g.**M-ECOC-001.2.**

(iii) Estimate the %age of students scoring set target (60%) or more in the question(s) of test-II based on third CO e.g.**M-ECOC-001.3.**

(iv) Estimate the %age of students scoring set target (60%) or more in the question(s) of test-II based on the fourth CO e.g.**M-ECOC-001.4.**

(v) Take average of the percentages obtained above.

(vi) Determine the attainment level i.e. 3, 2 or 1 as per scale defined in **the above table**.

Note: In the above steps, it is assumed that internal assessment is based on two tests only. However, if internal assessment is based on more than two tests and/or on assignments then same may by incorporated to determine the COs attainment level. There may be more than four COs for a course. The set target may also be different for different COs. These issues may be resolved by the staff councils of the departments/institutes.

For determining the attainment levels for end semester examination, it is assumed that questions in the end term examination are based on all COs of the course. Attainment levels for end semester examination of a course can be determined after the declaration of the results. The CO attainment levels for end semester examination are given **in the following Table.**

<h2 style="text-align:center">CO Attainment Levels for End Semester Examination (ESE)</h2>

Attainment Level	
1 (Low level of attainment)	60% of students obtained letter grade of A or above (for CBCS programs) or score more than 60% of marks (for non-CBCS programs) in ESE of a course.
2 (Medium level of attainment)	70% of students obtained letter grade of A or above (for CBCS programs) or score more than 60% of marks (for non-CBCS programs) in ESE of a course.
3 (High level of attainment)	80% of students obtained letter grade of A or above (for CBCS programs) or score more than 60% of marks (for non-CBCS programs) in ESE of a course.

Note: In the above table, the set target is assumed as grade A for CBCS courses and 60% for non-CBCS Courses.
It may vary in different departments/institutes. The staff councils of the departments/institutes may finalize the set target.

Overall CO Attainment level of a Course:
The overall CO attainment level of a course can be obtained as:

Overall CO attainment level = 50% of CO attainment level in internal assessment + 50% of CO attainment level in end semester examination.

The overall COs attainment level can be obtained for all the courses of the programme in a similar manner.

Attainment of POs:

The overall attainment level of POs is based on the values obtained using direct and indirect methods in the ratio of 80:20. The direct attainment of POs is obtained through the attainment of COs. The overall CO attainment value as estimated above and CO-PO mapping value as shown in **Table 3** are used to compute the attainment of POs. PO attainment values obtained using direct method can be written as shown **in the following Table.**

PO Attainment Values using Direct Method

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
M-BECOC-001												
M-BECOC-002												
M-BECOC-003												
M-BECOC-004												
M-BECOC-005												
M-BECOE -019												
M-BECOE -020												
M-BECOE -021												
M-BECOE -022												
M-BECOE -023												
M-BECOE -024												
M-BECOE -025												
M-BECOC-006												
M-BECOC-007												
M-BECOC-008												
M-BECOC-009												
M-BECOC-010												
M-BECOE -026												
M-BECOE -027												
M-BECOE -028												
M-BECOE -029												
M-BECOE -030												
M-BECOE -031												

M-BECOE -032												
M-ECO-GE 1 To 10												
M-BECOC-011												
M-BECOC-012												
M-BECOC-013												
M-BECOC-014												
M-BECOE -033												
M-BECOE -034												
M-BECOE -035												
M-BECOE -036												
M-BECOE -037												
M-BECOE -038												
M-BECOE -039												
M-BECOE -040												
M-BECOE -041												
M-BECOE -042												
M-BECOE -043												
M-BECOE -044												
M-ECO-GE 11 To 20												
M-BECOC-015												
M-BECOC-016												
M-BECOC-017												
M-BECOC-018												
M-BECOE -045												
M-BECOE -046												
M-BECOE -047												
M-BECOE -048												
M-BECOE -049												
M-BECOE -050												
M-BECOE -051												
M-BECOE -052												
M-BECOE -053												
M-BECOE -054												
M-BECOE -055												
M-BECOE -056												
Direct PO Attainment	**Average of above values**	**Average of above values**	**Average of above values**								**Average of above values**	

The PO attainment values to be filled in above table can be obtained as follows:

For M-BECOC -001-PO1 Cell:

PO1 attainment value = (Mapping factor of **M-BECOC -101**-PO1 from **Table 3** $\times$ Overall CO attainment value for the course **M-BECOC -001**)/3

For M-BECOC -002-PO1 Cell:

PO1 attainment value = (Mapping factor of **M-BECOC -002**-PO1 from **Table 3** $\times$ Overall CO attainment value for the course **M-SOC -201**)/3

Similarly, values for each cell **of the above table** can be obtained. The direct attainment of POs is average of individual PO attainment values.

In order to obtain the PO attainment using indirect method, a student exit survey based on the questionnaire of POs may be conducted at end of last semester of the program. The format for the same is given **in the following table**. Average of the responses from the outgoing students for each PO is estimated. The overall PO attainment values are obtained by adding attainment values estimated using direct and indirect methods in the proportion of 80:20 as follows:

Overall attainment value for PO1 =

$0.8 \times$ average attainment value for PO1 using direct method **(from above table)** +

$0.2 \times$ average response of outgoing students for PO1

Similarly, overall attainment value can be obtained for each PO.

Questionnaire for indirect measurement of PO attainment (For outgoing students)

At the end of my degree programme, I am able to do:

	Please tick any one		
Statement of PO1	3	2	1
Statement of PO2	3	2	1
Statement of PO3	3	2	1
Statement of PO4	3	2	1
Statement of PO5	3	2	1
Statement of PO6	3	2	1
Statement of PO7	3	2	1
Statement of PO8	3	2	1
Statement of PO9	3	2	1
Statement of PO10	3	2	1
Statement of PO11	3	2	1
Statement of PO12	3	2	1
3: Strongly Agree; 2: Agree; 1: Average			

Overall PO attainment values can be written as shown **in the following Table.**

Overall PO attainment Values

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Direct PO attainment												
Indirect PO attainment												
Overall PO attainment												
Target	2	2	2	2	2	1.5	2	2	2	2	1.5	1.5

The overall PO attainment values obtained above are compared with set target. The set target for each PO may be different and can be finalized by the staff councils of the departments/institutes. If overall PO attainment value is less than the set target value then an action plan may be prepared for improvement in the subsequent academic session.

The overall PSO attainment level based on CO-PSO mapping values and overall CO attainment values can be obtained in a similar manner.