Kanya Maha Vidyalaya, Jalandhar
(An Autonomous College)

Minutes of 7TH Meeting of Board of Studies
P. G. Department of Economics

Date: 17-Apr.-2021
Time: 11:00 A.M.
Venue: Zoom Online Meeting

FACULTY OF ECONOMICS & BUSINESS

SYLLABUS
For
Bachelor of Arts
Economics (Semester: I-VI)

(Under Continuous Evaluation System)
(12+3 System of Education)
Session: 2021–22

The Heritage Institution
Kanya Maha Vidyalaya, Jalandhar
(Autonomous)

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM

Bachelor of Arts

Session 2021-22

Economics

Economics Semester I								
Course Name	Program Name	Course Code	Course Type	Marks				Examination time (in Hours)
				Total	Ext.		CA	
					L	P		
Microeconomics	Bachelor of Arts	BARL-1175	E	100	80	--	20	3

E-Elective

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM

Bachelor of Arts

Session 2021-22

Economics

Economics Semester II								
Course Name	Program Name	Course Code	Course Type	Marks				Examination time (in Hours)
				Total	Ext.		CA	
					L	P		
Macroeconomics	Bachelor of Arts	BARL-2175	E	100	80	--	20	3

E-Elective

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM

Bachelor of Arts

Session 2021-22

Economics

Economics Semester III								
Course Name	Program Name	Course Code	Course Type	Marks				Examination time (in Hours)
				Total	Ext.		CA	
					L	P		
Indian Economy	Bachelor of Arts	BARL-3175	E	100	80	--	20	3

E-Elective

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM

Bachelor of Arts

Session 2021-22

Economics

Economics Semester IV								
Course Name	Program Name	Course Code	Course Type	Marks				Examination time (in Hours)
				Total	Ext.		CA	
					L	P		
International Economics And Public Finance	Bachelor of Arts	BARL-4175	E	100	80	--	20	3

E-Elective

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM

Bachelor of Arts

Session 2021-22

Economics

Economics Semester V								
Course Name	Program Name	Course Code	Course Type	Marks				Examination time (in Hours)
				Total	Ext.		CA	
					L	P		
Economics of Development	Bachelor of Arts	BARL-5175	E	100	80	--	20	3

E-Elective

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM

Bachelor of Arts

Session 2021-22

Economics

Economics Semester VI								
Course Name	Program Name	Course Code	Course Type	Marks				Examination time (in Hours)
				Total	Ext.		CA	
					L	P		
Quantitative Methods for Economists	Bachelor of Arts	BARL-6175	E	100	80	--	20	3

E-Elective

Bachelor of Arts (Semester–I)
Course Code: BARL-1175
Microeconomics

Course Outcomes:

CO: After passing this course, students will be able to have an in-depth understanding of the preliminary concepts about consumer behaviour, costs and revenue curves, production behaviour and market structure.

Bachelor of Arts (Semester–I)
Session 2021-22
Course Code: BARL-1175
Microeconomics

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Introductory: Definition of Economics, Nature, Scope and Assumptions of Microeconomics. Demand Function, Supply Function, Price Determination, Elasticity of Demand – Price, Income and Cross elasticities and their Measurement.
Utility Analysis: law of diminishing marginal utility and law of equi-marginal utility, Indifference Curve Analysis and Revealed Preference Analysis (Meaning and Equilibrium).

UNIT–II

Theory of Production and Costs: Concept of Production Function. Laws of Returns to Scale and Returns to Factor
Cost: Concepts and Cost curves in the short and in the long run; Traditional and modern cost Theory, Revenue Curves and their relationship with elasticity of demand.

UNIT–III

Market forms: Perfect Competition- Assumptions, Price and output determination of firm and Industry in Short run and Long run; Monopoly-Assumptions and Equilibrium.
Monopolistic Competition- Assumptions and Equilibrium (except Group Equilibrium).

UNIT–IV

Marginal Productivity Theory; Factor Pricing (with reference to labour) under Perfect Competition and Imperfect Competition, Modern Theory of Distribution.
Rent: Concept, Ricardian Theory and Modern Theory of Rent.
Interest: Concept of interest; classical theory, lonable funds theory.
Profit: Concept of profit; Risk and uncertainty theories.

SuggestedReadings:

1.Ahuja,H.L.(2018),'*AdvancedEconomicsTheory:MicroEconomicsanalysis*',S.ChandPublishing.
2. Dwivedi, D.N. (2018), '*Microeconomics: Theory and Applications*', Pearson Education, New Delhi.
3.Koutsoyiannis,A.(2015),'*ModernMicroeconomics*',MacmillanPress,London.
4.Sen,A.(2007),'*Microeconomics:TheoryandApplications*',OxfordUniversityPress,NewDelhi.
Note: The latest edition of the books is recommended..

Bachelor of Arts (Semester –II)

Course Code: BARL-2175

MACROECONOMICS

Course Outcomes:

After passing this course students will be able to:

CO1: understand the consumption and investment behaviour of an economy and factor affecting consumption and investment decisions.

CO2: demonstrate an understanding of nature and functions of money and the role of financial markets in the economy.

CO3: understand the problem of inflation, its causes, effects and solutions in an economy.

Bachelor of Arts (Semester –II)
Session 2021-22
Course Code: BARL-2175
Macroeconomics

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Distinction between Micro and Macro Economics; Determination of Income and Employment: Classical and Keynesian models; Say's Law of Market and aggregate demand and aggregate supply. Consumption functions; average (short-run and long run) and marginal propensity to consume; Keynes' Psychological Law of Consumption, Multiplier: Meaning and its working.

UNIT–II

Investment: Meaning, Investment Demand schedules and factors affecting investment decision. Marginal Efficiency of Capital, Accelerator, multiplier-accelerator interaction.

Trade cycles-meaning, characteristics and phases, Samuelson and Hicks Models of trade cycles.

UNIT–III

Money: Its functions and role. Money and Capital Markets (Introductory); Quantity Theory of Money: Fisher's and Cambridge's equations, Liquidity preference theory.

Banking: Meaning and Functions of commercial and central banks, Credit creation and credit control.

UNIT–IV

Inflation: Concept, Causes and cures. Inflation-unemployment Trade-off (only Phillips' contribution).**Macroeconomic Policies:** Fiscal policy – meaning, objectives and instruments. Monetary policy:meaning, objectives and instruments.

Suggested Readings:

1. Shapiro E., (2001), *Macroeconomic Analysis, Harcourt, Brach and World*, New York.
2. Dwivedi D.N. (2018), *Macroeconomics: Theory and Policy*, Tata McGraw-Hill.

Note: The latest edition of the books is recommended.

Bachelor of Arts (Semester–III)
Session 2021-22
Course Code: BARL-3175
Indian Economy

Course Outcomes:

After passing this course students will be able to:

CO1: understand the Indian development strategies and dynamics of problems of different sectors of Indian Economy

CO2: understand latest developments in social, agriculture, industry and external sector in India.

Bachelor of Arts (Semester–III)
Session 2021-22
Course Code: BARL-3175
Indian Economy

Time: 3 Hours | **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT- I

Nature of Indian Economy; Agriculture in India: Nature and Importance of Agriculture, Causes of Decline in Productivity, Sustainable Agricultural Growth, Green Revolution and New Agricultural Strategy. WTO and Indian Agriculture (Introductory).

UNIT- II

Industry: Performance and Problems of Industrial Development; Public Sector versus Private Sector, Role of Privatization, Role of Small and Cottage Industries, Latest Industrial Policy.

UNIT- III

Foreign Trade: Direction and Composition of Exports and Imports since 1991; Recent Foreign Trade Policy, Balance of Payment Problem, Foreign Capital and Multinational Corporations in India.

UNIT- IV

Features of Population Growth in India. Major Problems of the Economy – Inflation, Unemployment, Poverty and Inequality. Current Indian Tax Structure. Planning- Objectives, Strategy, Evaluation of Planning in India; A Brief Idea of Objectives, Targets, Resources of the Latest Five Year Plan (Twelfth Five Year Plan).

Suggested Readings:

1. Mishra, S.K. and Puri, V.K. (2019),“*Indian Economy”,* Himalaya Publication House, Mumbai.
2. Dutt, R. and Sundharam, *K.P.M.* (2018), “*Indian Economy”,* S. Chand & Co. Ltd., New Delhi.
3. Aggarwal, A. N. (1975), “*Indian Economy”,* Vikas Publishing House, Delhi.
4. Wadhwa, C. D. (1980), “*Indian Economic Policy”,* Tata McGraw Hill, Bombay.

Note: The latest edition of the books is recommended.

Bachelor of Arts (Semester –IV)
Session 2021-22
Course Code: BARL-4175
International Economics and Public Finance

Course Outcomes:

After studying this course, students will be able to:

CO1: understand the basis of and gains from international trade.
CO2: understand the concept, structure, disequilibrium causes and measures through which disequilibrium can be corrected and how the exchange rate is determined.
CO3: be able to understand the basic aspects of public finance.

Bachelor of Arts (Semester –IV)
Session 2021-22
Course Code: BARL-4175
International Economics and Public Finance

Time: 3 Hours | **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

International Trade: Internal and External Trade; Classical and Heckscher-Ohlin Theories, Gains from Trade, Terms of Trade, (gross, net and income terms of trade).Trade and economic development.
Commercial Policy: Free trade vs. protection, rationale of a protectionist policy in less developed area. GATT & WTO (Introductory).

UNIT–II

Balance of Payments: Meaning and components of balance of payments, Methods for Correcting adverse balance of payments, devaluation and direct control.
Rate of Exchange: Meaning and determination (PPP and BOP Theory), Fixed and flexible exchange rates.

UNIT–III

Public Finance: Nature, scope importance. Public Expenditure: Meaning, principles, importance, effect of public expenditure on production and distribution.

UNIT–IV

Taxes: Meaning, classification, features of a good taxation system, canons of taxation, incidence and impact of taxation. Public Debt: Meaning, objectives, importance, its burden.

Suggested Readings:

1. Sodersten, B.O. (1970), "*International Economics",* Macmillan, London.
2. Salvatore, D. and Reed, G. (1983), "*International Economics",* Macmillan Publishing Company, New York.
3. Tyagi, B.P. (2004), "Public Finance", Jai Prakash Nath & Company, Meerut.

Note: The latest edition of the books is recommended.

Bachelor of Arts (Semester–V)

Course Code: BARL-5175
Economics of Development

Course Outcomes:

After passing this course students will be able to:

CO1: understand the different path ways of economic development, recognize the importance of assumptions in development models and their policy implications.

CO2: critically evaluate economic problems of developing and least developed countries and participate in the contemporary policy debate on development priorities

Bachelor of Arts (Semester–V)
Session 2021-22
Course Code: BARL-5175

Economics of Development

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

–I

Economic Development: Meaning and Measurement, Economic and Non-Economic Factors, Characteristics of Developing and Least Developed Countries. Human Development Index, Concept of Sustainable Development.

Dualism: Social and Technological Dualism

Lewis Model of Unlimited Supply of Labour, Problems of Unemployment and Disguised Unemployment.

UNIT–II

Models of Growth: Classical, Marxian, Schumpeter, Harrod-Domar and Solow.

UNIT–III

Rostow's theory of Stages of Growth

Strategies of Economic Development-Balanced vs. Unbalanced Growth; Theory of Big Push; Leibenstein's Critical Minimum Efforts Thesis

Export Promotion and Import Substitution**.**

UNIT–IV

Capital Formation – Meaning and Sources.

Choice of Technique

Role of Planning in Under Developed Countries, Need, Objective, Strategy, Types and Problems of Planning.

Suggested Readings:

1. Meier, G.M.(1995), *Leading Issues in Economic Development*, Oxford University Press, Delhi.
2. Thirlwall, A.P. (2011), *Economics of Development*, Palgrave Macmillan.
3. Todaro, M.P. and Smith, S.C. (2018), *Economic Development*, Pearson India
4. Misra and Puri (2016), *Economics of Development and Planning*, Himalaya Publishing House, New Delhi

Note: The latest edition of the books is recommended.

Bachelor of Arts (Semester –VI)
Session 2021-22
Course Code: BARL-6175
Quantitative Methods for Economists

Course Outcomes:

After passing this course students will be able to:

CO1: Learn basic tools of mathematics and statistics.

CO2: Develop analytical and interpreting skills.

CO3: Understand the appropriate methods for forecasting and estimation.

Bachelor of Arts (Semester –VI)
Session 2021-22
Course Code: BARL-6175
Quantitative Methods for Economists

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Sets, Relations and functions, Derivative of simple functions only (excluding log & exponential functions).Maxima/Minima for single variable functions. Introduction to Matrices - definition, properties & inverse.

UNIT–II

Measures of Central Tendency — Mean, Mode, Median and Geometric Mean; Measures of Dispersion.

UNIT–III

Concepts and Measure of Skewness and Kurtosis: Boyle's & Karl Pearson's measures. Simple Correlation & Regression (ungrouped & grouped data).

UNIT–IV

Interpolation: Concepts and Methods — Binomial expansion, Newton and Lagrange's Method (with emphasis on missing values only). Price Index Numbers–Weighted and Unweighted Index Numbers, various formulae and consistency tests.

Suggested Readings

1. Gupta, S.P. (2014), *Statistical Methods*, Sultan Chand & Sons, New Delhi.
2. Gupta, S.C. (2018), *Fundamentals of Statistics*, Himalaya Publishing House, New Delhi
3. Elhance, D.N. and Elhance, V. (2018), *Fundamentals of Statistics*, Kitab Mahal, Allahabad
4. Croxton, F.E., Cowden D.J. and Klein. S. (1973), *Applied General Statistics,* 3rd. Ed., Prentice Hall of India, New Delhi.
5. Nagar, A.L. and Das, R.K. (1976), *Basic Statistics*, Oxford University Press, Bombay.
6. Aggarwal, C.S and Joshi, S.C.(2017) ,*Mathematics for Students of Economics,* New Academic Publishing Co., Jalandhar

Note: The latest edition of the books is recommended.

(ANNEXURE -C)

FACULTY OF ECONOMICS AND BUSINESS

SYLLABUS

of

Bachelor of Science (Economics)

(Semester I-VI)

(Under Continuous Evaluation System)

Session: 2021-22

The Heritage Institution
KANYA MAHA VIDYALAYA JALANDHAR
(Autonomous)

Program Specific Outcome – Bachelor of Science (Economics)

B.Sc. (Economics) is a three year graduation degree program. The program aims at creation and dissemination of knowledge regarding core economic principles and issues; focusing on the link between theory and real world.

Upon successful completion of this course, students will be able to:

PSO1: understand the basic concepts and principles of economics.

PSO2: have in depth knowledge of concepts and basic theories of consumer behaviour, cost and market structure, and production behaviour.

PSO3: have in depth knowledge of concepts and basic macroeconomics theories such as employment, consumption, investment and international trade, money, banking, development and public finance.

PSO4: understand basic techniques of presentation and analysis of data; and some advanced applications and theory of theoretical and sampling distribution and econometric estimation methodologies.

PSO5: understand Indian experience with planning and various problems faced by Indian economy and latest developments in Indian economy.

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM
Bachelor of Science (Economics)
Session: 2021-2022

Bachelor of Science (Economics) –Semester I									
Course Code		Course Name	Course Type	Marks					
				Total	Ext. L	Ext. P	CA	Examination Time (in Hours)
BECL-1421 BECL-1031 BECL-1431		Punjabi(Compulsory) [1]Basic Punjabi [2]Punjab History & Culture	C	50	40	-	10	3
BECL-1212		English (Compulsory)	C	50	40	-	10	3
BECM-1333	(I)	**Mathematics** (Algebra)	E	100	80 (40+40)	-	20	3+3
	(II)	**Mathematics** (Calculus and Trigonometry)						
BECL-1453		**Quantitative Techniques** (Quantitative Techniques–I)	E	100	80	-	20	3
BECM-1134		**Computer Science** (Computer Fundamental & PC Software)	E	100	50	30	20	3+3
	(P)	**Computer Science** (Computer Fundamental & PC Software) (PRACTICAL)						
BECM-1124		**Computer Applications (Vocational) (**Computer Fundamentals & PC Software)	E	100	50	30	20	3+3
	(P)	**Computer Applications** (Computer Fundamental & PC Software) (PRACTICAL)						
BECL-1175		**Economics** (Microeconomics)	C	100	80	-	20	3
AECD-1161		*Drug Abuse: Problem, Management and Prevention (Compulsory)	AC	50	40	-	10	3
SECF-1492		*Foundation Course	AC	25	20	-	5	1
Total				**400**				

C-Compulsory
E-Elective
AC- Audit Course
[1] Special paper in lieu of Punjabi (Compulsory).
[2] Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.
***Marks of these papers will not be added in total marks and only grades will be provided.**

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM

Bachelor of Science (Economics)

Session: 2021-22

Bachelor of Science (Economics) Semester II							
Course Code	**Course Name**	**Course Type**	**Marks**				**Examination time (in Hours)**
			Total	**Ext.**		**CA**	
				L	**P**		
BECL-2421 BECL-2031 BECL-2431	Punjabi(Compulsory) [1]Basic Punjabi [2]Punjab History & Culture	C	50	40	-	10	3
BECL-2212	English (Compulsory)	C	50	40	-	10	3
BECM-2333 BECL-2453	Maths/ Quantitative Techniques	E	100 100	80 (40+40) 80	- -	20 20	3+3 3
BECM-2134 BECM-2124	Computer Science Computer Applications	E	100	50	30	20	3+3
BECL-2175	Economics(Macroeconomics)	C	100	80	-	20	3
AECD-2161	*Drug Abuse: Problem Management and Prevention (Compulsory)	AC	50	40	-	10	3
SECM-2502	*Moral Education Programme	AC	25	25	-	-	2
Total			**400**				

C-Compulsory
E-Elective
AC- Audit Course
[1] Special paper in lieu of Punjabi (Compulsory).
[2] Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.
***Marks of these papers will not be added in total marks and only grades will be provided.**

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM
Bachelor of Science (Economics)
Session: 2021-2022

<table>
<tr><th colspan="9">Bachelor of Science (Economics)-Semester III</th></tr>
<tr><th colspan="2" rowspan="3">Course Code</th><th rowspan="3">Course Name</th><th rowspan="3">Course Type</th><th colspan="5">Marks</th></tr>
<tr><th rowspan="2">Total</th><th colspan="2">Ext.</th><th rowspan="2">CA</th><th rowspan="2">Examination Time (in Hours)</th></tr>
<tr><th>L</th><th>P</th></tr>
<tr><td colspan="2">BECL-3421
BECL-3031
BECL-3431</td><td>Punjabi(Compulsory)
[1]Basic Punjabi
[2]Punjab History & Culture</td><td>C</td><td>50</td><td>40</td><td>-</td><td>10</td><td>3</td></tr>
<tr><td colspan="2">BECL-3212</td><td>English (Compulsory)</td><td>C</td><td>50</td><td>40</td><td>-</td><td>10</td><td>3</td></tr>
<tr><td rowspan="2">BECM-3333</td><td>(I)</td><td>Mathematics (Analysis)</td><td rowspan="2">E</td><td rowspan="2">100</td><td rowspan="2">80 (40+40)</td><td rowspan="2">-</td><td rowspan="2">20</td><td rowspan="2">3+3</td></tr>
<tr><td>(II)</td><td>Mathematics (Analytical Geometry)</td></tr>
<tr><td colspan="2">BECL-3453</td><td>Quantitative Techniques
(Quantitative Techniques–III)</td><td>E</td><td>100</td><td>80</td><td>-</td><td>20</td><td>3</td></tr>
<tr><td rowspan="2">BECM-3134</td><td></td><td>Computer Science (Computer Oriented Numerical And Statistical Methods)</td><td rowspan="2">E</td><td rowspan="2">100</td><td rowspan="2">50</td><td rowspan="2">30</td><td rowspan="2">20</td><td rowspan="2">3+3</td></tr>
<tr><td>(P)</td><td>Computer Science (Computer Oriented Numerical And Statistical Methods) (PRACTICAL)</td></tr>
<tr><td rowspan="2">BECM-3124</td><td></td><td>Computer Applications (Vocational) (Operating System)</td><td rowspan="2">E</td><td rowspan="2">100</td><td rowspan="2">50</td><td rowspan="2">30</td><td rowspan="2">20</td><td rowspan="2">3+3</td></tr>
<tr><td>(P)</td><td>Computer Applications (Operating System)</td></tr>
<tr><td colspan="2">BECL-3175</td><td>Economics(Indian Economy)</td><td>C</td><td>100</td><td>80</td><td>-</td><td>20</td><td>3</td></tr>
<tr><td colspan="2">AECE-3221</td><td>*Environmental Studies (compulsory)</td><td>AC</td><td>100</td><td>60</td><td>20</td><td>20</td><td>3</td></tr>
<tr><td colspan="2">SECP-3512</td><td>* Gender Sensitization</td><td>AC</td><td>25</td><td>20</td><td>-</td><td>5</td><td>1</td></tr>
<tr><td colspan="4">Total</td><td colspan="5">400</td></tr>
</table>

C-Compulsory
E-Elective, O-Optional
AC- Audit Course
[1] Special paper in lieu of Punjabi (Compulsory).
[2] Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.
***Marks of these papers will not be added in total marks and only grades will be provided.**

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM

Bachelor of Science (Economics)

Session: 2021-22

Bachelor of Science (Economics) Semester IV							
Course Code	**Course Name**	**Course Type**	**Marks**				**Examination time (in Hours)**
			Total	**Ext.**		**CA**	
				L	**P**		
BECL-4421 BECL-4031 BECL-4431	Punjabi(Compulsory) [1]Basic Punjabi [2]Punjab History & Culture	C	50	40	-	10	3
BECL-4212	English (Compulsory)	C	50	40	-	10	3
BECM-4333 BECL-4453	Maths/ Quantitative Techniques	E	100 100	80 (40+40) 80	- -	20 20	3+3 3
BECM-4134 BECM-4124	Computer Science Computer Applications	E	100	50	30	20	3+3
BECL-4175	Economics (International Economics and Public Finance)	C	100	80	-	20	3
AECE-4221	*Environmental Studies (compulsory)	AC	100	60	20	20	3
SECS-4522	*Social Outreach	AC					
Total			**400**				

C-Compulsory
E-Elective
AC- Audit Course
[1] Special paper in lieu of Punjabi (Compulsory).
[2] Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.
***Marks of these papers will not be added in total marks and only grades will be provided.**

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM

<u>Bachelor of Science (Economics)</u>

Session: 2021-2022

Bachelor of Science (Economics)-Semester-V								
Course Code		**Course Name**	**Course Type**	**Marks**				
				Total	**Ext.**		**CA**	**Examination Time (in Hours)**
					L	**P**		
BECL-5421 BECL-5031 BECL-5431		Punjabi(Compulsory) [1]Basic Punjabi [2]Punjab History & Culture	C	50	40	-	10	3
BECL-5212		English (Compulsory)	C	50	40	-	10	3
BECM-5333	(I)	**Mathematics**(Dynamics)	E	100	80 (40+40)	-	20	3+3
	(II)	**Mathematics** (Number Theory)						
BECL-5453		**Quantitative Techniques** (Quantitative Techniques–V)	E	100	80	-	20	3
BECM-5134		**Computer Science**	E	100	50	30	20	3+3
	(P)	**Computer Science** ((PRACTICAL)						
BECM-5124		**Computer Applications**	E	100	50	30	20	3+3
	(P)	**Computer Applications** (PRACTICAL)						
BECL-5175		**Economics** (Economics of Development)	C	100	80	-	20	3
AECE-5221		*Environmental Studies (compulsory)	AC	100	60	20	20	3
SECP-5512		* Personality Development	AC	25	20	-	5	1
Total				**400**				

C-Compulsory

E-Elective, O-Optional

AC- Audit Course

[1] **Special paper in lieu of Punjabi (Compulsory).**

[2] **Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.**

KanyaMahaVidyalaya, Jalandhar (Autonomous)
SCHEME AND CURRICULUM OF EXAMINATIONS OF THREE YEAR DEGREE PROGRAM

Bachelor of Science (Economics)

Session: 2021-22

Bachelor of Science (Economics) Semester VI							
Course Code	**Course Name**	**Course Type**	**Marks**				**Examination time (in Hours)**
			Total	**Ext.**		**CA**	
				L	**P**		
BECL-6421 BECL-6031 BECL-6431	Punjabi(Compulsory) [1]Basic Punjabi [2]Punjab History & Culture	C	50	40	-	10	3
BECL-6212	English (Compulsory)	C	50	40	-	10	3
BECM-6333 BECL-6453	Maths/ Quantitative Techniques	E	100 100	80 (40+40) 80	- -	20 20	3+3 3
BECM-6134 BECM-6124	Computer Science Computer Applications	E	100	50	30	20	3+3
BECL-6175	Economics (Quantitative Methods for Economists)	C	100	80	-	20	3
AECE-6221	*Environmental Studies (compulsory)	AC	100	60	20	20	3
Total			**400**				

C-Compulsory
E-Elective
AC- Audit Course
[1] Special paper in lieu of Punjabi (Compulsory).
[2] Special paper in lieu of Punjabi (Compulsory) for those students who are not domicile of Punjab.
***Marks of these papers will not be added in total marks and only grades will be provided.**

Bachelor of Science (Economics) (Semester–I)
Session 2021-22
Course Code: BECL-1175
Microeconomics

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Introductory: Definition of Economics, Nature, Scope and Assumptions of Microeconomics. Demand Function, Supply Function, Price Determination, Elasticity of Demand – Price, Income and Cross elasticities and their Measurement.
Utility Analysis: law of diminishing marginal utility and law of equi-marginal utility, Indifference Curve Analysis and Revealed Preference Analysis (Meaning and Equilibrium).

UNIT–II

Theory of Production and Costs: Concept of Production Function. Laws of Returns to Scale and Returns to Factor
Cost: Concepts and Cost curves in the short and in the long run; Traditional and modern cost Theory, Revenue Curves and their relationship with elasticity of demand.

UNIT–III

Market forms: Perfect Competition- Assumptions, Price and output determination of firm and Industry in Short run and Long run; Monopoly-Assumptions and Equilibrium.
Monopolistic Competition- Assumptions and Equilibrium(except Group Equilibrium).

UNIT–IV

Marginal Productivity Theory; Factor Pricing (with reference to labour) under Perfect Competition and Imperfect Competition, Modern Theory of Distribution.
Rent: Concept, Ricardian Theory and Modern Theory of Rent.
Interest: Concept of interest; classical theory, lonable funds theory.
Profit: Concept of profit; Risk and uncertainty theories.

SuggestedReadings:

1.Ahuja,H.L.(2018),‘*AdvancedEconomicsTheory:MicroEconomicsanalysis*’,S.ChandPublishing.
2. Dwivedi, D.N. (2018), ’*Microeconomics: Theory and Applications*’, Pearson Education, New Delhi.
3.Koutsoyiannis,A.(2015),‘*ModernMicroeconomics*’,MacmillanPress,London.
4.Sen,A.(2007),‘*Microeconomics:TheoryandApplications*’,OxfordUniversityPress,NewDelhi.

Note: The latest edition of the books is recommended..

Bachelor of Science (Economics) (Semester –II)

Course Code: BECL-2175

Macroeconomics

Course Outcomes:

After passing this course students will be able to:

CO1: understand the consumption and investment behaviour of an economy and factor affecting consumption and investment decisions.

CO2: demonstrate an understanding of nature and functions of money and the role of financial markets in the economy.

CO3: understand the problem of inflation, its causes, effects and solutions in an economy.

Bachelor of Science (Economics) (Semester –II)
Session 2021-22
Course Code: BECL-2175
Macroeconomics

Time: 3 Hours | **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Distinction between Micro and Macro Economics; Determination of Income and Employment: Classical and Keynesian models; Say's Law of Market and aggregate demand and aggregate supply. Consumption functions; average (short-run and long run) and marginal propensity to consume; Keynes' Psychological Law of Consumption, Multiplier: Meaning and its working.

UNIT–II

Investment: Meaning, Investment Demand schedules and factors affecting investment decision. Marginal Efficiency of Capital, Accelerator, multiplier-accelerator interaction.
Trade cycles-meaning, characteristics and phases, Samuelson and Hicks Models of trade cycles.

UNIT–III

Money: Its functions and role. Money and Capital Markets (Introductory); Quantity Theory of Money: Fisher's and Cambridge's equations, Liquidity preference theory.
Banking: Meaning and Functions of commercial and central banks, Credit creation and credit control.

UNIT–IV

Inflation: Concept, Causes and cures. Inflation-unemployment Trade-off (only Phillips' contribution).**Macroeconomic Policies:** Fiscal policy – meaning, objectives and instruments. Monetary policy:meaning, objectives and instruments.

Suggested Readings:

1. Shapiro E.,(2001),*Macroeconomic Analysis, Harcourt, Brach and World*, New York.
2. Dwivedi D.N., (2018),*Macroeconomics: Theory and Policy*, Tata McGraw-Hill.

Note: The latest edition of the books is recommended.

Bachelor of Science(Economics) (Semester –II)

Session: 2020-2021

Course Code: BECL-2453

Quantitative Techniques–II

Course Outcomes:

After passing this course, students will be able to:

CO1: understand the basic concepts and techniques for analyzing data.

CO2: develop statistical approach and thinking among students to problem solving on a diverse variety of disciplines.

CO3: understand the concept of time series in analyzing economics problems.

Bachelor of Science (Economics) (Semester –II)
Session 2021-22
Course Code: BECL-2453
Quantitative Techniques–II

Time: 3 Hours | **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setters:
Two questions, each carrying 16 marks, from each of Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

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UNIT–I

Statistics: Definition, Scope in Economics, Significance, Limitations. Classification, Tabulation, Diagrammatic and Graphical Representation of Data.
Introduction to SPSS - Defining Variables and Entering Data.

UNIT–II

Concepts and Measures of Central Tendency: Mean, Median, Mode, GM, and HM. Concepts and Measures of Relative Dispersion, Concepts and Measures of Skewness (Stress on Numerical Examples).

UNIT–III

Correlation Analysis: Introduction, Importance, Karl-Pearson's Coefficient of Correlation, Spearman's Rank Correlation Coefficient, Simple Regression Analysis; Difference Between Correlation and Regression, Lines of Regression, Properties of Correlation and Regression Coefficients (Stress on Numerical Examples).

UNIT–IV

Index Numbers: Concept of Index Number, Purpose Construction & Problems, Laspeyre's, Paasche's and Fisher's Formulae, Tests of Consistency.
Analysis of Time Series: Definition, Components of Time Series, Measurement of Trend by Different Methods, Measurement of Seasonal Variations (Stress on Examples).

Suggested Readings:

1. Gupta, S.P. (2014), *Statistical Methods*, Sultan Chand & Sons, New Delhi.
2. Croxton, F.E., Cowden D.J. and Klein, S. (1973), *Applied General Statistics*, 3rd. Ed., Prentice Hall of India, New Delhi.
3. Nagar, A.L. and Das, R.K. (1976), *Basic Statistics*, Oxford University Press, Bombay.
4. Aggarwal, C.S and R.C Joshi.

Note: The latest edition of the books is recommended.

Bachelor of Science (Economics) (Semester –III)
Session 2021-22
Course Code: BECL-3175
Indian Economy

Course Outcomes:

After passing this course students will be able to:

CO1: understand the Indian development strategies and dynamics of problems of different sectors of Indian Economy

CO2: understand latest developments in social, agriculture, industry and external sector in India.

Bachelor of Science (Economics) (Semester –III)
Session 2021-22
Course Code: BECL-3175
Indian Economy

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT- I

Nature of Indian Economy; Agriculture in India: Nature and Importance of Agriculture, Causes of Decline in Productivity, Sustainable Agricultural Growth, Green Revolution and New Agricultural Strategy; WTO and Indian Agriculture (Introductory).

UNIT- II

Industry: Performance and Problems of Industrial Development; Public Sector versus Private Sector, Role of Privatization, Role of Small and Cottage Industries, Latest Industrial Policy.

UNIT- III

Foreign Trade: Direction and Composition of Exports and Imports since 1991; Recent Foreign Trade Policy, Balance of Payment Problem, Foreign Capital and Multinational Corporations in India.

UNIT- IV

Features of Population Growth in India. Major Problems of the Economy – Inflation, Unemployment, Poverty and Inequality. Current Indian Tax Structure. Planning- Objectives, Strategy, Evaluation of Planning in India; A Brief Idea of Objectives, Targets, Resources of the Latest Five Year Plan (Twelfth Five Year Plan).

Suggested Readings:

1. Mishra, S.K. and Puri, V.K. (2019), "*Indian Economy",* Himalaya Publication House, Mumbai.
2. Dutt, R. and Sundharam, *K.P.M.* (2018), "*Indian Economy",* S. Chand & Co. Ltd., New Delhi.
3. Aggarwal, A. N. (1975), "*Indian Economy",* Vikas Publishing House, Delhi.
4. Wadhwa, C. D. (1980), "*Indian Economic Policy",* Tata McGraw Hill, Bombay.

Note: The latest edition of the books is recommended.

B. Sc. Economics (Semester –III)
Session 2020-21
Course Code: BECL-3453
QUANTITATIVE TECHNIQUES–III

Course Outcomes:

After passing this course students will be able to:

CO1: understand and apply the concept of differentiation in economic applications such as profit maximization, cost minimization or utility optimization.

CO2: understand and apply the concept of indefinite and definite integrals to the economics concepts like consumer and producer surplus.

CO3: explain and use matrix operations to solve system of equations

CO4: understand the basics of Linear programming.

Bachelor of Science (Economics) (Semester –III)
Session 2021-22
Course Code: BECL-3453
Quantitative Techniques–III

Time: 3 Hours | **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Differentiation: Maxima and Minima of Functions, Partial derivatives, Higher order partial derivatives.

UNIT–II

Integration (Excluding Trigonometric and Inverse Functions): Indefinite Integrals; Integration by Partial Fractions; Integration by substitution; Integration by parts; Definite Integrals; Application of Integration in Consumer Surplus and Producer Surplus.

UNIT–III

Matrices: Definition, Types, Addition, Subtraction and Multiplication of Matrices, Scaler Multiplication, Transposition, Determinants and their Properties, Minors and Co-factors, Rank of a Matrix, Inverse of a Matrix, Crammer's Rule for Solution of Simultaneous system of equations; Applications of matrices in economics.

UNIT–IV

Linear Programming: Formulation of problem, Assumptions, Graphical solution, Simplex method, Use of Artificial Variables, Dual Simplex method. Input-Output Analysis: Basic concepts, Input-Output tables for closed and open economies, Leontief Basic Input-Output Model, Simple Applications of Input-Output Analysis.

Suggested Readings:

1. Rangi, S.S. and Chowdhary, V. (2013), "*Mathematical Techniques*", S. Vikas& Co. Publishing House, India.
2. Allen, R.G.D.(1938), Mathematical Analysis for Economists, ELBS and Macmillan Press, New York.
3. Chiang, A.(1967), Fundamental Methods of Mathematical Economics, McGraw Hill.

Note: The latest edition of the books is recommended.

Bachelor of Science (Economics)(Semester –IV)
Session 2021-22
Course Code: BECL-4175
International Economics and Public Finance

Course Outcomes:

After studying this course, students will be able to:

CO1: understand the basis of and gains from international trade.

CO2: understand the concept, structure, disequilibrium causes and measures through which disequilibrium can be corrected and how the exchange rate is determined.

CO3: be able to understand the basic aspects of public finance.

Bachelor of Science (Economics) (Semester –IV)
Session 2021-22
Course Code: BECL-4175
International Economics and Public Finance

Time: 3 Hours | **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

International Trade: Internal and External Trade; Classical and Heckscher-Ohlin Theories, Gains from Trade, Terms of Trade, (gross, net and income terms of trade).Trade and economic development.
Commercial Policy: Free trade vs. protection, rationale of a protectionist policy in less developed area. GATT & WTO (Introductory).

UNIT–II

Balance of Payments: Meaning and components of balance of payments, Methods for Correcting adverse balance of payments, devaluation and direct control.
Rate of Exchange: Meaning and determination (PPP and BOP Theory), Fixed and flexible exchange rates.

UNIT–III

Public Finance: Nature, scope importance. Public Expenditure: Meaning, principles, importance, effect of public expenditure on production and distribution.

UNIT–IV

Taxes: Meaning, classification, features of a good taxation system, canons of taxation, incidence and impact of taxation. Public Debt: Meaning, objectives, importance, its burden.

Suggested Readings:

1. Sodersten, B.O. (1970), "*International Economics",* Macmillan, London.
2. Salvatore, D. and Reed, G. (1983), "*International Economics",* Macmillan Publishing Company, New York.
3. Tyagi, B.P. (2004), "Public Finance", Jai Prakash Nath & Company, Meerut.

Note: The latest edition of the books is recommended.

Bachelor of Science (Economics) (Semester –IV)
Session: 2021-2022
Course Code: BECL-4453
Quantitative Techniques–IV

Course Outcomes:

After passing this course students will be able to**:**

CO1: understand the axiomatic formulation of modern probability theory and think of random variables as intrinsic need for analysis of random phenomena.

CO2: recognize the connection between theory and applications by appropriately fitting, assessing and interpreting the results/ outcomes

CO3: understand the basic principles underlying survey design and estimation.

Bachelor of Science (Economics) (Semester –IV)
Session 2021-22
Course Code: BECL-4453
Quantitative Techniques–IV

Time: 3 Hours **Max. Marks: 100**
Theory: 80
Internal Assessment: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Multiple Linear Regression: Concepts, Estimation and Applications (without derivations). Partial and Multiple Correlation. Non-Linear Regression: Quadratic and Exponential; Estimation of Fitting of Various Growth Curves (Modified Exponential, Gompertz).

UNIT–II

Probability: Definition, Additive & Multiplicative Laws and their Applications, Bayes Theorem, Concept of Random Variable, Probability Mass Function & Density Function, Mathematical Expectation (meaning and properties), Moments, Moment Generating Function and Characteristic Function.

UNIT–III

Theoretical Probability Distributions: Derivations of the properties of Binomial (with numerical), Poisson (with numerical), Normal (with numerical), Beta and Gamma Distributions.

UNIT–IV

Sampling: Various concepts – Population, Sampling Units, Complete Enumeration sample Surveys, Concept of an Estimator and The Standard Error, Standard Error of Estimates. Features of a Good Sample, Random and Subjective Sampling, Simple Random Sampling (with and without replacement), Stratified Random Sampling (applications only).

Suggested Readings:

1. Gupta, S.C. (2018), "Fundamentals of Statistics", Himalaya Publishing House, 7th Edition,Delhi
2. Gupta, S.P. (2014), "Statistical Methods", Sultan Chand & Sons, 43rd Edition, Delhi
3. Rangi, S. S. and Nayyar, R.K. (2014), "Statistical Techniques (Vol. II)", S. Vikas and Company, India.
3. Siegel, Andrew F. (2002), Practical Business Statistics, International Edition, 5th Edition, McGraw Hill Irwin.

Note: The latest edition of the books is recommended.

Bachelor of Science (Economics) (Semester–V)
Session 2021-22
Course Code: BECL-5175
Economics of Development

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Economic Development: Meaning and Measurement, Economic and Non-Economic Factor, Characteristics of Developing and Least Developed Countries. Human Development Index, Concept of Sustainable Development.
Dualism: Social and Technological Dualism
Lewis Model of Unlimited Supply of Labour, Problems of Unemployment and Disguised Unemployment.

UNIT–II

Models of Growth: Classical, Marxian, Schumpeter's, Harrod-Domar and Solow's Growth Models.

UNIT–III

Rostow's Stages of Growth
Strategies of Economic Development-Balanced vs. Unbalanced Growth; Theory of Big Push; Leibenstein's Critical Minimum Efforts Thesis
Export Promotion and Import Substitution.

UNIT–IV

Capital Formation – Meaning and Sources.
Choice of Technique
Role of Planning in Under Developed Countries, Need, Objective, Strategy, Types and Problems of Planning.

Suggested Readings:

1. Meier, G.M.(1995),*Leading Issues in Economic Development*, Oxford University Press, New Delhi.
2. Thirlwall, A.P.(2011), *Economics of Development*, Palgrave Macmillan.
3. Todaro, M.P. and Smith, S.C. (2018), *Economic Development*, Pearson India
4. Misra and Puri (2016), *Economics of Development and Planning*, Himalaya Publishing House, New Delhi

Note: The latest edition of the books is recommended.

Bachelor of Science (Economics) (Semester–V)
Session 2021-22
Course Code: BECL-5453
Quantitative Techniques-V

Course Outcome:

After the successful completion of this course, the students will be able to

CO 1: understand the process of formulation and of testing the hypothesis.

CO2: understand the theoretical details of sampling distributions and their basic applications.

CO 3: learn ANOVA to split and analyse the variations in economic phenomenon.

Bachelor of Science (Economics) (Semester–V)
Session 2021-22
Course Code: BECL-5453
Quantitative Techniques-V

Time: 3 Hours | **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Statistical Inference: Point & Interval Estimation, Properties of a Good Estimator, Maximum Likelihood Method of Estimation and derivation of mean and variance of Binomial, Poisson and Normal distributions using MLE. Basic Concepts of Null and Alternative Hypotheses, Types of Errors, One Tailed and Two Tailed Tests, Power of Test, Critical Region.

UNIT–II

Sampling Distributions: Derivation of properties of Z, T, Chi Square and F distributions.

UNIT–III

Tests of significance based upon distribution of Z, t, F and Chi-square.

UNIT–IV

Analysis of Variance: Introduction, Assumptions, Techniques of Analyzing Variance-Analysis of Variance of one-way and two-way classification.

Suggested Readings:

1. Gupta and Kapoor(2014) , *Fundamentals of Mathematical Statistics* , Sultan Chand & Sons , New Delhi
2. Rangi S.S.(2016), Statistical Techniques, S. Vikas &Co. (Publishing House) India.

Note: The latest edition of the books is recommended.

Bachelor of Science (Economics) (Semester –VI)
Session 2021-22
Course Code: BECL-6175
Quantitative Methods for Economists

Course Outcomes:

After passing this course students will be able to:

CO1: Learn basic tools of mathematics and statistics.

CO2: Develop analytical and interpreting skills.

CO3: Understand the appropriate methods for forecasting and estimation.

Bachelor of Science (Economics) (Semester –VI)

Session 2021-22

Course Code: BECL-6175

Quantitative Methods for Economists

Time: 3 Hours **Max. Marks: 100**

Theory: 80

CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Sets, Relations and functions, Derivative of simple functions only (excluding log & exponential functions).Maxima/Minima for single variable functions. Introduction to Matrices - definition, properties & inverse.

UNIT–II

Measures of Central Tendency — Mean, Mode, Median and Geometric Mean; Measures of Dispersion.

UNIT–III

Concepts and Measure of Skewness and Kurtosis: Boyle's & Karl Pearson's measures. Simple Correlation & Regression (ungrouped & grouped data).

UNIT–IV

Interpolation: Concepts and Methods — Binomial expansion, Newton and Lagrange's Method (with emphasis on missing values only). Price Index Numbers–Weighted and Unweighted Index Numbers, various formulae and consistency tests.

Suggested Readings:

1. Gupta, S.P. (2014), *Statistical Methods*, Sultan Chand & Sons, New Delhi.
2. Gupta, S.C. (2018), *Fundamentals of Statistics*, Himalaya Publishing House, New Delhi
3. Elhance, D.N. and Elhance, V. (2018), *Fundamentals of Statistics* , Kitab Mahal, Allahabad
4. Croxton, F.E., Cowden D.J. and Klein. S. (1973), *Applied General Statistics,* 3rd. Ed., Prentice Hall of India, New Delhi.
5. Nagar, A.L. and Das, R.K. (1976), *Basic Statistics*, Oxford University Press, Bombay.
6. Aggarwal, C.S and Joshi, S.C.(2017) ,*Mathematics for Students of Economics,* New Academic Publishing Co., Jalandhar

Note: The latest edition of the books is recommended.

Bachelor of Science (Economics)(Semester–VI)
Session 2021-22
Course Code: BECL-6453
Quantitative Techniques-VI

Course Outcomes:

After passing this course students will be able to:

CO1: understand the nature and methodology of econometrics.

CO2: understand the OLS procedure of estimation of model and problems associated with it.

CO3: understand basics of estimation of models with lags

Bachelor of Science (Economics) (Semester–VI)
Session 2021-221
Course Code: BECL-6453
Quantitative Techniques-VI

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I

Definition, Scope and Nature of Econometrics. Simple Linear Regression Model (OLS method) with applications

Unit – II

General Linear Regression Model: assumptions, properties (BLUE). Gauss-Markov Theorem (Two Variable and K-variable). Concepts of R^2 and Adjusted R^2, Test of Significance (Stress on Numericals); Estimation of regression using SPSS and Interpretation of Output.

Unit – III

Econometric Problems of Heteroscedasticity and Multicollineraity in the Regression Analysis: Sources, Consequences, Tests and Remedial Measures. Specification Bias.

Unit – IV

Problem of Auto-Correlation in the Regression Analysis: Sources, Consequences, Tests and Remedial Measures. Distributed Lag Models and Auto-Regressive Models (Introductory). Dummy Variable Technique and its uses.

Suggested Readings:

1. Madnani GMK, (2015), *Introduction of Econometrics,* Oxford and IBH Publishing, N. Delhi.
2. Koutsoyiannis, A, *(2001), Theory of Econometrics,* The Macmillan Press Ltd., London.

Note: The latest edition of the books is recommended.

(ANNEXURE -D)

FACULTY OF ECONOMICS & BUSINESS

SYLLABUS

For

Master of Arts (Economics)

Semester (I –IV)

(Under Continuous Evaluation System)

Session: 2021-22

The Heritage Institution
KanyaMahaVidyalaya, Jalandhar
(Autonomous)

Program Specific Outcome – Master of Arts (Economics)

M.A. Economics is two year post graduate course with five subjects in each semester. The basic objective of M.A. Economics is to develop strong theoretical base along with practical skills of students associated with economic theories and real world internal as well as international economic problems. This course will help to develop academicians, researchers, analysis, bankers and anchors

Upon successful completion of this course, students will be able to:

PSO1: have in depth understanding of the basic concepts and theories of various streams of Economics.

PSO2: learn basic and advance data analysis techniques and their theoretical base.

PSO3:learn and understand basic problems and issues of Indian and Punjab Economy.

PSO4: learn latest developments in different streams of Economics.

Kanya Maha Vidyalaya, Jalandhar(Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF TWO YEAR DEGREE PROGRAM

MASTER OF ARTS (ECONOMICS)

Master of Arts(Economics) - Sem I

Course Code	Course Name	Course Type	Marks				Examination time (in Hours)
			Total	Ext. L	Ext. P	CA	
MECL-1171	Microeconomics-I	C	100	80	-	20	3
MECL-1172	Macroeconomics-I	C	100	80	-	20	3
MECL-1453	Quantitative Methods for Economists-I	C	100	80	-	20	3
Optional Subjects							
MECL-1174 (OPT-__)	Option to be selected from Table below	E	100	80	-	20	3
MECL-1175 (OPT-__) / MECM-1125 (OPT- XI)	Option to be selected from Table below	E	100 100	80 50	- 30	20 20	3/ 3+3
	Total		**500**				

Any two of the following options:

Sr. No.	Paper Title
OPT-I	Public Finance
OPT-II	Economics of Labour
OPT-III	Theory of Statistics
OPT-IV	Money, Banking and Finance
OPT-V	Industrial Economics
OPT-VI	History of Economic Thought
OPT-VII	Economics of Socialism
OPT-VIII	Econometrics
OPT-IX	Economics of Agriculture
OPT-X	Economics of Public Enterprises
OPT-XI	Computer Applications for Economists (Th.:50+ Pr.: 30+ Int. Ass.:20) = 100 Marks
OPT-XII	Operations Research
OPT-XIII	Economics of Environment and Demography
OPT-XIV	Economics of Infrastructure

Note: (i) C- Compulsory Subject E –Elective

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF TWO YEAR DEGREE PROGRAM
MASTER OF ARTS (ECONOMICS)

<table>
<tr><th colspan="8">Master of Arts (Economics) - Sem II</th></tr>
<tr><th rowspan="3">Course Code</th><th rowspan="3">Course Name</th><th rowspan="3">Course Type</th><th colspan="4">Marks</th><th rowspan="3">Examination time (in Hours)</th></tr>
<tr><th rowspan="2">Total</th><th colspan="2">Ext.</th><th rowspan="2">CA</th></tr>
<tr><th>L</th><th>P</th></tr>
<tr><td>MECL-2171</td><td>Microeconomics-II</td><td>C</td><td>100</td><td>80</td><td>-</td><td>20</td><td>3</td></tr>
<tr><td>MECL-2172</td><td>Macroeconomics-II</td><td>C</td><td>100</td><td>80</td><td>-</td><td>20</td><td>3</td></tr>
<tr><td>MECL-2453</td><td>Quantitative Methods for Economists-II</td><td>C</td><td>100</td><td>80</td><td>-</td><td>20</td><td>3</td></tr>
<tr><th colspan="8">Optional Subjects</th></tr>
<tr><td>MECL-2174 (OPT-__)</td><td>Option to be selected from Table below</td><td>E</td><td>100</td><td>80</td><td>-</td><td>20</td><td>3</td></tr>
<tr><td>MECL-2175 (OPT-__) / MECM-2125 (OPT- XI)</td><td>Option to be selected from Table below</td><td>E</td><td>100
100</td><td>80
50</td><td>-
30</td><td>20
20</td><td>3/
3+3</td></tr>
<tr><td></td><td>Total</td><td></td><td colspan="4">500</td><td></td></tr>
</table>

Any two of the following options:

Sr. No.	Paper Title
OPT-I	Public Finance
OPT-II	Economics of Labour
OPT-III	Theory of Statistics
OPT-IV	Money, Banking and Finance
OPT-V	Industrial Economics
OPT-VI	History of Economic Thought
OPT-VII	Economics of Socialism
OPT-VIII	Econometrics
OPT-IX	Economics of Agriculture
OPT-X	Economics of Public Enterprises
OPT-XI	Computer Applications for Economists (Th.:50+ Pr.: 30+ Int. Ass.:20) = 100 Marks
OPT-XII	Operations Research
OPT-XIII	Economics of Environment and Demography
OPT-XIV	Economics of Infrastructure

Note: (i) C- Compulsory Subject E –E

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF TWO YEAR DEGREE PROGRAM

MASTER OF ARTS (ECONOMICS)

Master of Arts (Economics) - Semester III

Course Code	Course Name	Course Type	Marks Total	Ext. L	Ext. P	CA	Examination time (in Hours)
MECL-3171	Economics of Development	C	100	80	-	20	3
MECL-3172	International Economics-I	C	100	80	-	20	3
MECL-3173	Indian Economy	C	100	80	-	20	3
Optional Subjects							
MECL-3174 (OPT-__)	Option to be selected from Table below	E	100	80	-	20	3
MECL-3175 (OPT-__)	Option to be selected from Table below	E	100 100	80 50	- 30	20 20	3/ 3+3
	Total		**500**				

Any two of the following options:

Sr. No.	Paper Title
OPT-I	Public Finance
OPT-II	Economics of Labour
OPT-III	Theory of Statistics
OPT-IV	Money, Banking and Finance
OPT-V	Industrial Economics
OPT-VI	History of Economic Thought
OPT-VII	Economics of Socialism
OPT-VIII	Econometrics
OPT-IX	Economics of Agriculture
OPT-X	Economics of Public Enterprises
OPT-XI	Computer Applications for Economists (Th.:50+ Pr.: 30+ Int. Ass.:20) = 100 Marks
OPT-XII	Operations Research
OPT-XIII	Economics of Environment and Demography
OPT-XIV	Economics of Infrastructure
OPT-XV	Dissertation* (*in lieu of one optional paper in MA Semester III and IV each). Marks=200

Note: (i) Any two of the options not already opted for in Semester I and Semester II.
(ii) C- Compulsory Subject E –Elective

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

SCHEME AND CURRICULUM OF EXAMINATIONS OF TWO YEAR DEGREE PROGRAM
MASTER OF ARTS (ECONOMICS) Sem-IV

Course Code	Course Name	Course Type	Marks				Examination time (in Hours)
			Total	Ext.		CA	
				L	P		
MECL-4171	Economics of Planning	C	100	80	-	20	3
MECL -4172	International Economics-II	C	100	80	-	20	3
MECL - 4173	Punjab Economy	C	100	80	-	20	3
Optional Subjects							
MECL -4174	Option to be selected from Table below	E	100	80	-	20	3
MECL -4175 (OPT-__)	Option to be selected from Table below	E	100 100	80 50	- 30	20 20	3/ 3+3
	Total		**500**				

Any two of the following options:

Sr. No.	Paper Title
OPT-I	Public Finance
OPT-II	Economics of Labour
OPT-III	Theory of Statistics
OPT-IV	Money, Banking and Finance
OPT-V	Industrial Economics
OPT-VI	History of Economic Thought
OPT-VII	Economics of Socialism
OPT-VIII	Econometrics
OPT-IX	Economics of Agriculture
OPT-X	Economics of Public Enterprises
OPT-XI	Computer Applications for Economists (Th.:50+ Pr.: 30+ Int. Ass.:20) = 100 Marks
OPT-XII	Operations Research
OPT-XIII	Economics of Environment and Demography
OPT-XIV	Economics of Infrastructure
OPT-XV	Dissertation* (*in lieu of one optional paper in MA Semester III and IV each).

	Marks=200

Note: (i) Any two of the options not already opted for in Semester I and Semester II.
(ii) C- Compulsory Subject E –Elective

Master of Arts (Economics) Semester – I
Session 2021-22
Course Code: MECL-1171
Microeconomics-I

Course Outcomes:

After passing this course students will be able to:

CO1: have an in-depth understanding of consumer behaviour, cost curves and production behaviour.

CO2: explain what is meant by economic efficiency and the mechanism by which competitive markets lead to an efficient allocation of resources.

Master of Arts (Economics) Semester – I
Session 2021-22
Course Code: MECL-1171
Microeconomics–I

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT – I

Basic Economic Problem - Choice and Scarcity. Deductive and Inductive methods of Analysis.
Role of assumptions in theory formulation. Positive and Normative Economics. Economic Models.
Elasticities (Prices, Cross, Income) of demand – theoretical aspects and empirical estimation. Elasticity of supply.

UNIT – II

Theories of demand – Utility, Indifference curve (Price, Income and Substitution effects; Hicks and Slutsky Substitution effect, Compensated Demand Curve) and their Applications, Revealed Preference Theory.

UNIT – III

Consumer's choice involving risk: describing risk, preference towards risk, the demand for risky assets.
Consumer's behaviour under Asymmetric information, Implications of Asymmetric information- Market Signalling, Moral hazard, Managerial incentives in an integrated firm; Asymmetric information in labour markets–efficiency wage theory. Recent development in demand analysis (linear Expenditure System).

UNIT – IV

Production function: Short period and long period; Law of variable proportions and returns to scale; Isoquants – Least cost combination of inputs; Returns to scale; Technical progress and production function; Cobb–Douglas; CES; Translog production function and their properties. Economies of scale. Multiproduct firm. Elasticity of substitution. Euler's theorem.
Traditional and Modern theories of cost - Derivation of cost functions from production function(C–D and CES).

Suggested Readings:

1. Ahuja,H.L.(2018), '*Advanced Economics Theory: Micro Economics analysis'*,S. Chand Publishing.
2. Dwivedi, D.N. (2018), '*Microeconomics: Theory and Applications'*, Pearson Education, New Delhi.
3. Koutsoyiannis, A.(2015), '*Modern Microeconomics',* Macmillan Press, London.
4. Sen, A.(2007), '*Microeconomics: Theory and Applications'*, Oxford University Press, New Delhi.

Note: The latest edition of the books is recommended..

MASTER OF ARTS (Economics) Semester – I
Session 2021-22
Course Code: MECL-1172
Macroeconomics-I

Course Outcomes:

After passing this course students will be able to:

CO1: understand the basics of national income accounting and theoretical details of classical and Keynes model of income & employment determination.

CO2: understand the introductory theories of consumption and investment and factor affecting consumption and investment decisions.

CO3: understand factors affecting supply and demand for money.

MASTER OF ARTS (Economics) Semester – I
Session 2021-22
Course Code: MECL-1172
Macroeconomics–I

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA:20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT – I

National Income and Accounts: Concept of national income, national Income and welfare, Social Accounts and its uses. Classical and Keynesian Models of income determination, wage price flexibility: classical & Keynesian View.

UNIT – II

Consumption Function: Keynes psychological law of consumption, short–run and long–run consumption function, Empirical evidence on consumption function, income–consumption relationship: absolute income, relative income, life cycle and permanent income hypotheses.

UNIT – III

Investment Function: Keynesian Theory, the accelerator Theory, Neo Classical Theory (Jorgenson's Model), Tobin Q Theory.

UNIT– IV

Money: Concept of money, Empirical definition of money, High powered money and money multiplier, Credit Creation by Banks, control of money supply.

Classical and Keynesian approach to demand for money, Post–Keynesian approaches to demand for money – Patinkin and the Real Balances Effect, Approaches of Baumol and Tobin; Friedman and modern quantity theory.

Suggested Readings:

1. Beckeman, W.(1976) *An Introduction to National Income Analysis*, London, 1976, E.L.B.S.
2. Branson, W.H. (1969) *Macroeconomics Theory and Policy*, New York, Harper & Row.
3. Ackley G. (1969) *Macroeconomics Theory,* New York, Macmillan.
4. Junankar, P.N.(1972) *Investment: Theories and Evidence,* London, Macmillan.
5. Shapiro, E. (2001) *Macroeconomic Analysis*, Galgotia Publications, New Delhi.

Note: The latest edition of the books is recommended..

MASTER OF ARTS (Economics) Semester – I
Session 202-22
Course Code: MECL-1453
Quantitative Methods for Economists–I

Course Outcomes:

CO 1: Recognize the concept of functions and rules of differentiation and apply this to find out revenue, cost, demand, supply function, elasticity and their types.

CO 2: Understand the rule of partial differentiation and interpretation of partial derivatives.

CO3: Manage to solve the problem related to maxima and minima in single and multivariable functions for application in market equilibrium.

CO4: Learn concepts of integration and its applications to consumer's surplus and producer's surplus.

CO5: Determine the solution of simultaneous equation through crammer's rule and understand the concept of quadratic forms, Eigen roots and Eigen vectors.

CO6: Recognize linear programming problem and its formulation and solution through graphical and simplex methods.

CO7: Well understanding the concept of duality, concept of a game, saddle point solution and its simple applications in economics.

MASTER OF ARTS (Economics) Semester – I
Session 2021-22
Course Code: MECL-1453
Quantitative Methods for Economists–I

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT– I

Concept of function and its types ; Rules of differentiation; Application to revenue, cost, demand, supply functions; Elasticities and their types; production function; Rules of partial differential and interpretation of partial derivatives; homogeneous functions and Euler's theorem.

UNIT– II

Problem of maxima and minima in single and multivariable (upto3) functions; Unconstrained and constrained optimization in simple economic problems; Simple applications in market equilibrium; Concept of integration; Simple rules of integration; Application to consumer's surplus and producer's surplus.

UNIT– III

Determinants and their basic properties; Solution of simultaneous equations through Cramer's rule, Concept of matrix–their types, simple operations on matrices, matrix inversion and rank of a matrix; Concept of quadratic form, Eigen roots and Eigen vectors; Introduction to input–output analysis.

UNIT– IV

Linear Programming –Formulation and solution through graphical and simplex method. Statement of basic theorems of linear programming; Formulation of the dual of primal and its interpretation; Shadow prices and their uses; Concept of duality; Concept of a game; Strategies – simple and mixed; Value of a game; Saddle point solution; Simple applications.

Suggested Readings:

1. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
2. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
3. Yamane, Taro (1975), Mathematics for Economists Prentice Hall of India, New Delhi.
4. Vygodsky, G.S. (1971), Mathematical Handbook (Higher Mathematics), Mir Publishers, Moscow.
5. Kothari, C.R. (1992), An Introduction to Operations Research, Vikas Publishing House, New Delhi.
6. Mustafi, C.K. (1992), Operations Research : Methods and Practice, Wiley Eastern, New Delhi.

Note: The latest edition of the books is recommended..

MASTER OF ARTS (Economics)
Session 2021-22
OPT-I (Public Finance)

Course outcome:

After passing this course students will be able to:

CO1: analyze the functioning of modern public finance to predict and verify the effects of government intervention on behaviour of individuals, households and firms.

CO2: understand the fiscal policy principles to demonstrate a good understanding of the fiscal framework for taxing and spending and to analyze the instruments and objectives of budgetary policy.

CO3: analyze critically tax reforms and policy choices in developed and developing countries.

MASTER OF ARTS (Economics)
Session 2021-22
OPT-I: Public Finance

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit– I

Meaning and scope of Public Finance, Role of Public Finance in developing countries. Distinction between public, private and merit goods.

Public revenue: sources, taxation, tax elasticity and buoyancy, taxable capacity and tax effort; Theory of incidence; equity in taxation; principles of taxation; direct and indirect taxes; effects of taxation on production and distribution; major taxes in India; recent tax reforms in India.

Unit– II

Public expenditure: structure and growth of public expenditure, reasons for growth in public expenditure; Wagner's law, Peacock and Wiseman's hypothesis; Effects of public expenditure on production and distribution; Role of public expenditure in developing countries.

Unit– III

Public budgets: kinds of budget, programme budgeting and zero-base budgeting; different concepts of budget deficits, latest budget of Union Government in India.

Public debt: classification, significance and burden of public debt, principles of debt management, external debt servicing, Public debt in India.

Unit– IV

Fiscal federalism – theory and problems; Criteria for resource transfer from Union to States. Centre-State financial relations in India; recommendations of the latest Finance Commission. Fiscal policy– objectives, interdependence of monetary and fiscal policies.

Suggested Readings:

1. Musgrave, R.A. (1989), "The Theory of Public Finance", McGraw Hill, Kogakusha, Tokyo.
2. Tyagi, B.P. (2004), "Public Finance", Jai Prakash Nath& Company, Meerut.
3. Srivastava, D.K. (2000), "Fiscal Federalism in India", Har-Anand Publications Ltd.,New Delhi.
4. Government of India (1992), Reports of the Tax Reforms Committee – Interim and Final (Chariman: Raja J. Chelliah).

Note: The latest edition of the books is recommended.

MASTER OF ARTS (Economics)
Session 2021-22
OPT-II (Economics of Labour)

Course outcome:

After passing this course students will be able to:

CO1: understand labour market issues and theories.

CO2: analyze trends and pattern in the labour market and understand wage and social security scheme structure.

CO3: analyze a variety of public policy issues revolving around labour in India.

MASTER OF ARTS (Economics)
Session 2021-22
OPT-II: Economics of Labour

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit– I

Nature, scope and subject matter of labour economics; Labour Market: Concept, characteristics,
Nature and characteristics and growth of labour markets in India. Theories of Labour markets: Classical, Neo-classical, Dualistic Labour Markets.

Unit– II

Employment and Unemployment – Concept, types and measurements; nature of unemployment in India, Employment policy in five year plans, Casualisation of employment in India, Employment in organized and unorganized sector, MGNREGA Scheme .
Wages: classical and neo-classical and bargaining theories of Wages. Concept of Wages – minimum wage, living wage and fair wages in India, Wages and productivity.

Unit– III

Trade Unions; Objectives and functions, Trade unions in India. Industrial Relations in India. Industrial Disputes – Causes and extent, Dispute settlement, Machinery in India in the framework of Industrial Disputes Act.

Unit– IV

Social Security – social assistance, social insurance and social security policy in India. Labour Welfare: State policies with respect to labour welfare in India, Labour Pension Scheme, Labour market reforms in India, exit policy and measures to make labour market flexible; Second National Commission on labour; Globalization and labour markets.

Suggested Readings:
1. Datar, B.N.(1968): Labour Economics, Allied Publisher, Bombay.
2. Dunlop J.T. (ed) : Theory of Wages Determination, Palgrave Macmillan.
3. Report of the National Commission on Labour in India, 1969.
4. I.L.O. : Approaches to Social Security, various Issues.
5. Pant, S.C.(1965): Indian Labour Problems, Chaitanya Publishing House.
6. Papola, T.S., P.P. Ghosh and A.N. Sharma (Eds.)(1992) , Labour, Employment and Industrial Relation in India, B.R. Publishing Corporation, New Delhi.
7. Tyagi, B.P.(2017) Labour Economics and Social Welfare, Jai Prakash Nath and Co., Meerut.

Note: The latest edition of the books is recommended..

MASTER OF ARTS (Economics)
Session 2021-22
OPT-III (Theory of Statistics)

Course outcome:

After passing this course students will be able to:

CO1: understand the various probability distributions, importance of its underlying assumptions and its applications

CO2: learn the procedure of hypothesis testing and identify appropriate parametric and non-parametric tests for analyzing data.

MASTER OF ARTS (Economics)
Session 2021-22
OPT-III: Theory of Statistics

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit –I

Axiomatic definition of probability, Chebychev's inequality, meaning of theoretical probability distributions; derivation of main properties of binomial, poisson, normal, gamma and beta distributions.

Unit – II

Meaning of sampling distribution of a statistic; desirable properties of point estimators; internal estimation; derivation of main properties of χ^2, t and F distributions; maximum likelihood estimation (properties without derivation) and applications.

Unit – III

Basic concepts of hypotheses testing; tests of significance based upon Z, χ^2, t and F distributions.

Unit – IV

Non-parametric tests (without derivations; stress on numerical examples): Ordinary sign test, Wilcoxon's signed rank test, test of randomness, Wald-Wolforutz run test, Mann-Whitney test, Kruskel-Wallis test, Kendall's concordance test.

Suggested Readings:

1. Goon, A.M., Gupta, M.K. and Das Gupta, B. (1977), *An Outline of Statistical Theory,* Vols. I & II, The World Press Ltd., Calcutta.
2. Gupta and Kapoor(2014) , *Fundamentals of Mathematical Statistics* , Sultan Chand & Sons , New Delhi
3. Kapur, J.N. and Saxena, H.C. (1997), *Mathematical Statistics*, S. Chand & Co., New Delhi.

Note: The latest edition of the books is recommended..

MASTER OF ARTS (Economics)
Session 2021-22
OPT-IV (Money, Banking and Finance)

Course Outcomes:

After passing this course students will be able to:

CO1: demonstrate an understanding of nature of money and the role of banks in modern monetary economies and financial Intermediation.

CO2: understand the main policy challenges central banks face in choosing appropriate goals, instruments and targets in the conduct of monetary policy.

CO3: understand the main determinants of interest rates in money market and bond market.

MASTER OF ARTS (Economics)
Session 2021-22
OPT-IV: Money, Banking and Finance

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit– I

Money : Definition, functions, kinds of money, Inside and Outside money, Neutrality of money-Don Patinkin's, Meltzer's and Gurley and Shaw's analysis. Supply of money in India: concepts, significance and determinants, mechanics of money supply in India. Demand for Money: The traditional quantity theory; Fisher's equation of exchange; Cambridge cash balance approach. Keyensian, Friedman's and Neo-Keyensian theories of demand for money, empirical evidence.

Unit– II

Financial System : Commercial Banks: Systems, Theories of banking, Portfolio behaviour, Innovative banking, Credit creation, Role in economic development. Non-Bank Financial Intermediaries (NBFI's), Credit creation by NBFI's and monetary policy, Development banking and its lending activities with special reference to India.

Unit– III

Banking in India; Structure of Commercial Banks; Regional Rural Banks (R.R.B.'s); CooperativeBanks, Nationalisation of banks in India, Banking Sector reforms.
Central Banking: Functions with special reference to developing countries, Monetary policy: Objectives, Targets and Indicators. Transmission Mechanism, Lags in Monetary policy; ReserveBank of India, limitations of RBI.

Unit– IV

Rate of Interest: Determination; Theories of the term structure of interest rates, Nature and Structure of interest rates in India; Money and Capital markets: Structure, Treasury Bills Market, Call money market and Stock markets in India(Introductory), Mutual Funds (concept), Dichotomy in Indian money market; Interest rate policy in India: Recent developments; Financial sector reforms (recent developments).

Suggested Readings:

1. Thorn, Richard S., (1976), Introduction to Money and Banking, New York, Harper & Row.
2. Luckett, D.G., (1976), Money and Banking, McGraw Hill, New York.
3. Bhole, L.M., (1998), Financial Institutions and Markets Structure, Growth and Innovations, 2nd ed.
4. Paul, R.R., (2018), Monetary Economics, Kalyani Publishers, New Delhi.
5. Reserve Bank of India (1985), Report of the Committee to review the working of the Monetary System.
6. (Narasimha Committee Report).

Note: The latest edition of the books is recommended..

MASTER OF ARTS (Economics)
Session 2021-22
OPT-V (Industrial Economics)

Course Outcomes:

After passing this course students will be able to:

CO1: understand the some advance concepts and theories of industrial structure, conduct and performance

CO2: understand the Industrial policy in India – evolution and paradigm shift, recent trends in Indian Industrial growth.

MASTER OF ARTS (Economics)
Session 2021-22
OPT-V: Industrial Economics

Time: 3 Hours | **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit– I

Framework and Problems of Industrial Economics: Concept and organization of a firm – ownership, control and objectives of the firm;
Market Structure: Product differentiation; Entry conditions; Economies of Scale; Market structure and innovation; Theories of industrial location – Weber and Sargent Florence; Factors affecting location.

Unit– II

Market Conduct: Product Pricing **-** Theories and evidence; Investment expenditure – Methods of evaluating investment expenditure; Mergers and Acquisitions; diversification.
Market Performance: Growth of the firm – Theory and evidence; Constraints on firm's growth; Productivity, efficiency and capacity utilization – Concept and measurement including evidence from Indian Economy.

Unit– III

Indian Industrial Growth and Pattern : Industrial Policy in India – evolution and paradigm shift; Recent trends in Indian industrial growth; MNCs, transfer of technology and issues related with TRIMS; Privatization: Forms and global and Indian evidence; Regional industrial growth and concentration in India; economic concentration and remedial measures; Issues in Industrial proliferation and environmental preservation.

Unit– IV

Project Appraisal : Cost benefit analysis – Net Present Value (NPV) and internal rate of return (IRR) criteria – balancing private and social returns.
Industrial Labour : Structure of industrial labour; Globalization and labour; Exit Policy and safety nets.

Suggested Readings:

1. Bains, J.S (1996) Industrial Organization, Cheltenham , U.K: "*An Elgar critical Writing Reader"*.
2. Barthwal R.R.,(2010),"*Industrial Economics: An Introductory Text"*, Wiley Eastern, New Delhi.
3. Chadha, V. and G.S. Bhalla (1999),"*Industrial Development in India: The Post-Reform Scen*e", Kalyanai Publishers, New Delhi
4. Dutt and Sundram (2016), *Indian economy,* S.Chand Publications, New Delhi.
5. Dhar, P.K. (2016), *Indian Economy: Its Growth and Dimensions,* Kalyani Publications.

Note: The latest edition of the books is recommended.

MASTER OF ARTS (Economics)
Session 2021-22
OPT-VI (History of Economic Thought)

Course Outcomes:

After passing this course students will be able to:

CO1: understand key models and concepts of the history of economic thought.

CO2: have a historical consciousness of economic ideas.

CO3: understand the development of economic thought in the context of the evolving global economy and from a historical perspective.

MASTER OF ARTS (Economics)
Session 2021-22
OPT-VI: History of Economic Thought

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I

Mercantilism: Its origin and content - economic ideas of Petty, Cantillon, Locke and Hume.
Physiocracy: Natural order, primacy of agriculture, social classes and circulation of wealth.

Unit – II

The Classical System: Adam Smith- Division of Labour, theory of value and distribution, economic growth and international trade; David Ricardo- Theory of value and distribution, foreign trade, economic development and theory of rent; T.R. Malthus- Theory of Population, theory of gluts; J.S. Mill- Leissez faire and protection; J.B. Say- Law of Markets; Karl Marx: dynamics of social change, theory of value and surplus value, theory of capitalist competition.

Unit – III

The Marginalists and Neo-Classicism: Precursors to marginalism- Gossen, Jevons, Menger and Walras; The Austrian School- Wiser and Bohm-Bawerk: Theory of capital and distribution; K. Wicksell and the Swedish School; Wicksteed on laws of distribution; The American Contribution: Clark, Walker and Schumpeter on the theory of growth and business cycles; Marshallian Economics: Price determination and elasticites, consumer surplus, costs and economies, rent and profit.

Unit – IV

Keynes and Post Keynesian developments: Marginal efficiency of capital and investment, theory of wages and interest, underemployment equilibrium and the role of fiscal policy, theory of multiplier and business cycles; Post Keynesian developments in consumption function, quantity theory of money, inflation, business cycles and economic growth.

Suggested Readings:

1. Hanley, L.H. : History of Economic Thought, 1949.
2. Blaug, M. : Economic Theory in Retrospect, 1968.
3. Schumpeter, J.A. : History of Economic Analysis, 1954.
4. Spiegel, H.W. : The Growth of Economic Thought, 1971.
5. Roll, E. : A History of Economic Thought, 1956.
6. Friedman, M. : A Theory of Consumption Function, 1957.
7. Hicks, J.R. : A Contribution to the Theory of Business Cycles, 1960.
8. Domar, E. : Essays in the Theory of Economic Growth, 1957.
9. Gide, C. and C. Rist : A History of Economic Doctrines, 1948.

Note: The latest edition of the books is recommended..

MASTER OF ARTS(Economics)
Session 2021-22
OPT-VII (Economics of Socialism)

Course Outcomes:

After passing this course students will be able to:

CO1: understand different types of economic system understand the process of socialism, its crisis and problem of socialistic economy in the context of Marxian theory of surplus.
CO2: learn different forms of planning, resource allocation in Planning and relevance of balanced approach and unbalanced approaches of planning.
CO3: understand the system pricing, consumption, management decision in industry and Agriculture and international economic relations in socialistic pattern

MASTER OF ARTS (Economics)
Session 2021-22
OPT-VII: Economics of Socialism

Time: 3 Hours | **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I

Economic system; meaning and features; Distinguishing features of different economic systems pre-capitalist, capitalism, socialism and mixed economy.

Unit – II

Marxian Theory of surplus value, crisis, breakdown and socialism, Pre-requisites, Problems and processes of socialist transformation, Economic problems of socialist economies.

Unit – III

Organizational forms of planning, indicators of planning, development priorities and resource allocations. Balance approach; inter-sectoral and inter-regional balances.

Unit – IV

Pricing, consumption, management of industry and agriculture, International economic relations between socialist and developing economies; breakdown of socialist system.

Suggested Readings:

1. Lavinge, M., Socialist Economies of Soviet Union and Europe.
2. Lange, O., Political Economy, Vols. I and II (relevant portions).
3. Leontive, L., A Short Course of Political Economy.
4. Willzynski, J., Economics Theory of Socialism.
5. Lange, O. & Taylor, F.M., Economics Theory of Socialism (1964, First Edition).
6. Nova, A., Soviet Economy (Third Edition).
7. Nova, A., Socialist Economies (1975), Nutti, D.M. (ed.).
8. Dobb, M., On Economics Theory of Socialism, 1965.
9. Halzman, F. (ed.), Readings in Soviet Economy.

Note: The latest edition of the books is recommended..

MASTER OF ARTS (Economics)
Session 2021-22
OPT-VIII (Econometrics)

Course Outcomes:

After passing this course students will be able to:

CO1: understand the nature and methodology of econometrics.

CO2: understand the OLS procedure of estimation of model and problems associated with it.

CO3: understand the basics time series and panel data

MASTER OF ARTS (Economics)
Session 2021-22
OPT-VIII: Econometrics

Time: 3 Hours | **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I

Nature, meaning and scope of econometrics. Simple and general linear regression model – Assumptions, estimation (through OLS approach) and properties of estimators, Gauss-Markov's theorem (Two variable and k-variable), Concepts and derivation of R^2 and adjusted R^2.

Unit – II

Concept of analysis of variance approach and its applications in regression analysis. Nature, test, consequences and remedial steps of the problems of heteroscedasticity and multicollinearity.

Unit – III

Nature, test, consequences and remedial steps of the problem of auto-correlation. Concepts of stationarity, random walk model, unit roots-Dicky-Fuller test and Augmented Dicky-Fuller test, Cointegration, Causality analysis (Granger and Sim's test).

Unit – IV

Introduction to panel data models: Fixed effect and random effect models. Dummy variables techniques: Alternative applications – Testing structural stability of regression models, comparing two regression equations, interaction effect, seasonal analysis.

Suggested Readings:
1. Gujarati, D.N (2002), *Basic Econometrics* ,McGraw Hill, New Delhi.
2. Koutsoyiannis, A (2001), *Theory of Econometrics,* The Macmillan Press Ltd., London.

Note: The latest edition of the books is recommended.

MASTER OF ARTS (Economics)
Session 2021-22
OPT-IX: Economics of Agriculture

Course Outcomes:

After passing this course students will be able to:

CO1: understand the various theories of agriculture economics.
CO2: analyze trends in production & productivity and recognize the challenges in green revolution and post green revolution era
CO3: learn the price and marketing policies of agriculture and its implications

MASTER OF ARTS (Economics)
Session 2021-22
OPT-IX: Economics of Agriculture

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit I

Basic Agricultural Economics – Production functions in agriculture: Input-input and product-product relationship; Inter-sectoral linkages of agriculture (Backward, forward, linkages and feed-back effect). Models of agricultural development – Lewis, FEI-Ranis, Gorgeuson's, Mellor, Schultz and Boserp's model.

Unit II

Basic Inputs – Irrigation, HYV seeds, mechanization, distribution mechanism of inputs, New agricultural strategy and its impact on employment and income distribution.
Food security and international trade, concept, threat, indicators and mechanism to food security. Food assistance programme (Domestic and International).

Unit III

Institutional Structure – Nature of emerging agrarian structure – co-operative farming and its evaluation with reference to productivity, employment and income distribution, Environment and soil erosion, sustainable development.
Organic farming– meaning, techniques of organic farming and its scope in India.

Unit IV

Marketing and Prices – Nature of supply and demand for agricultural products; income and price elasticity of demand and supply, Agriculture marketing in India, Rationale for state intervention, Agricultural price policy (recent), Terms of trade between agriculture and industry.
Main features of International trade in Agri-products. WTO – subsidies and Indian agriculture.

Suggested Readings:
1. Barkey .A. and Barkey.P.(2016), *Principles of Agriculture Economics*,Taylor and Francis
2. Bhalla, G.S. and Tyagi, D.S. (1989), *Patterns in Indian Agricultural Development*, RSID
3. Dantwala, M.L. (1992*), Indian Agriculture Development Since Independence :A collection of Essays* , South Asian Books
4. Dasgupta, B. (1980), *The New Agricultural Technology in India*, Mcmillan.
5. Economic and Political Weekly, *Regular Features on Review of Agriculture.*
Note: The latest edition of the books is recommended.

MASTER OF ARTS (Economics)
Session 2021-22
OPT-X (Economics of Public Enterprises)

Course Outcomes:

After passing this course students will be able to:

CO1: understand the role of public sector in economic development, objectives scope and growth of public sector in India.

CO2: understand the management of public enterprises and personnel management in public enterprises.

CO3: explain the costs and benefit analysis –Net Present Value and Internal rate of return criteria.

MASTER OF ARTS (Economics)
Session 2021-22
OPT-X: Economics of Public Enterprises

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit– I
Role of Public Sector in economic development. Objectives, scope and growth of public sector in
India. Cost-benefit analysis, shadow prices, social rate of discount, practical approaches in project selection.

Unit– II
Organisational Pattern of public enterprises. Management of Public enterprises: Personal Management in Public Enterprises, Financial management in Public enterprises.

Unit– III
Evaluation of performance of public enterprises, Measurement of efficiency in public enterprises, Pricing Policy of Public Enterprises. Public sector reforms and privatization strategies.

Unit– IV
Accountability of Public Enterprises, Relationship with the government, Auditing of Public Enterprises. Role of Bureau of Public Enterprises, Special Committees in Public Enterprises.
Case study of public sector steel industry in India-growth performance, pricing and management.

Suggested Readings:
1. Jagdishprakash (2010), ”*Administration of Public Enterprises in India*”, Himalaya Publishing House .
2. Khera, S.S. (1964), “*Management and Control in Public Enterprises”*.
3. NarainLaxmi (1981), ”*Principles and Practice of Public Enterprises Management”,* Ajanta Publications, New Delhi.
4. Sinha, J.B.S. (1974), “*Some Problems of Public Sector Organisation”*.

Note: The latest edition of the books is recommended..

Master of Arts (Economics)
(Session 2021-22)
Course Code: MECM- 2125 (OPT - XI)
Computer Applications For Economists

COURSE OUTCOME

After passing this course the student will be able to:

CO1: Comprehend the organization of Computer System, functioning of various units and storage.

CO2: Demonstrate the use of Mobile as computing device and apply new technology in day to day activities.

CO3: Apply features of word processing and spreadsheet software for data manipulation, data entry, worksheet formatting, functions and formulae.

CO4: Comprehend and apply SPSS for economics related calculations.

Master of Arts (Economics)
(Session 2021-22)
Course Code: MECM- 2125 (OPT - XI)
Computer Applications For Economists

Examination Time: (3+3) Hrs. **Max. Marks: 100**
Theory: 50
Practical: 30
CA: 20

Instructions for Paper Setter -

Note: Instructions for the Paper–Setter:
Two questions, each carrying 10 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT– I

Fundamentals of Computer: Introduction to computer, Applications of computer, Input and Output devices, Memory – Primary and Secondary.
Latest trends and Technologies in IT: Digital Camera, Smart finger: Distance measuring tool, Nipper, Stylus, Tiny cube speaker, Airpods, Mobile as a computing device, Payment gateway, Payment methods: Net-banking, m-Banking, UPI, Debit/Credit Card, Mobile Wallets.

UNIT II

Word Processing: Introduction to word processing & its features, parts of window of word processing (Title bar, menu bar, status bar, and ruler), understanding the ribbon, use of office button and quick access toolbar, creation of new documents, opening document, insert a document into another document. Page setup, margins, gutters, font properties, alignment, page breaks, header &footer, deleting, moving, replace, editing text in document, saving a document, spell checker, printing a document. Creating a table, entering and editing text in tables, changing format of table, height and width of row/column editing, adding and deleting rows/columns. Adding picture, page colors and watermarks, borders, shading, drawing objects.

UNIT –III

Spreadsheet: Introduction to worksheet/spreadsheet, features, creating a new workbook, different functions on different data in excel, creation of chart, creation of worksheet, adding, deleting, moving the text in worksheet, linking, sorting the data, querying the data, filtering the data (auto and advance filters), open an already existing workbook, saving workbook, printing a worksheet, closing the workbook & exiting.

UNIT -IV

SPSS: Introduction, Data editor Window, Syntax, Output basics, If command, Filter command, Entering and modifying data, Creating a chart, using interactive chart function, difference between excel and SPSS.

References/Textbooks:

1. Prof. Satish Jain, M. Geetha, Kratika, BPB's Office 2010 Course Complete Book, BPB Publications (2017).
2. Rachhpal Singh, Gurvinder Singh, Windows based computer courses, Kalyani Publishers (2011).
3. Anshuman Sharma, A book of Fundamentals of Information Technology, Lakhanpal Publishers (2016), 5thed..
4. E. Balagurusamy, Programming in ANSI C, Tata McGraw-Hill (2002), 5th ed.
5. YashwantKanetkar, Let us C, BPB Publications (2020), 17th ed.
6. Anshuman Sharma, Learn programming in C, Lakhanpal Publishers (2016), 7th ed.
7. LokeshJasrai, Data Analysis using SPSS, SAGE Publications Pvt. Ltd. (2020), 1st Edition

Note: The latest edition of the books is recommended..

MASTER OF ARTS (Economics)
Session 2021-22
OPT-XII: Operations Research

Course Outcomes:

After passing this course students will be able to:

CO1: gain proficiency with tools from optimization techniques like advanced linear programming, transportation, queuing models and assignment problems.

CO2: understand and propose the best strategy among various strategies of game theory under uncertainty.

CO3: understand the basic replacement models to maximise firms profit or minimize losses.

CO4: use CPM and PERT techniques, to plan, schedule, and control project activities.

MASTER OF ARTS (Economics)
Session 2021-22
OPT- XII: Operations Research

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I

Definition, significance, scope and limitations of operations research, Linear Programming: Assumptions, formulation and solution by graphic method, simplex and two phase simplex method.

Unit – II

Transportation Problems, Assignment Problems. Game Theory: Competitive games, Pure strategy, by Dominance, Mixed strategy (2x2, mx2 and 2xm), Two persons zero sum games, 'n' persons zero sum games, Solution of Game problems with Linear Programming.

Unit – III

Queuing Models: Characteristics Single channel Queuing models:
Model I (M/M/I) : (FCFS/¥/¥)
Model II (M/M/I) : (SIRO/ ¥/¥)
Model III (M/M/I) : (FCFS/N/¥) – (Finite Queue Length Model)
Model IV (M/M/I) : (FCFS/n/N) - (Limited Source Model)
Inventory Model with Deterministic Demand and Probabilistic Demand.

Unit – IV

Replacement models of items that deteriorate (money value constant and changes), For items that fail suddenly (Individual replacement policy and Group replacement policy) Project Scheduling by PERT and CPM

Suggested Readings:

1. Wagner, H.M. (1973), Principles of Operations Research with Applications to Managerial Decisions.
2. Levin, R.I. and Kirk Patrick, C.A., (1978), Quantitative Approaches to Management.
3. Hartley, R.V., (1976), Operations Research : A Managerial Emphasis.
4. Hardy, A. Taha, (1976), An Introduction to Operations Research, 2nd ed.

Note: The latest edition of the books is recommended..

MASTER OF ARTS (Economics)
Session 2021-22
OPT-XIII: Economics of Environment and Demography

Course Outcomes:
After passing this course students will be able to:

CO1: analyse trends in population growth rate, death rate, birth rate, and urbanisation.

CO2: understand various theories of population growth.

CO3: learn the causes and consequences of population growth on different aspects.

MASTER OF ARTS (Economics)
Session 2021-22
OPT-XIII: Economics of Environment and Demography

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I

Environment-economy-population linkage, environment as a public good, common property resources. Environmental Economics and Ecological Economics Environmental benefits – use value and non-use values, methods of measurement, costs of environmental protection, environment and development trade-off, sustainable development, neo-classical and ecological views, integrated environmental and economic accounting.

Unit – II

Environmental policies, Pigouvian taxes and subsidies, marketable pollution permits, Coase theorem, environmental regulations – command and control, incentive based, promoting clean technology, energy policy. Global issues – poverty, population and environment, global agreements, trade and environment under WTO regime.

Unit – III

Demography and its concepts, population and economic development, theories of population – Malthus, optimum theory, theory of demographic transition. Factors affecting fertility, nuptiality-concept and analysis, mortality-concepts and factors affecting, Concept of Gender Issues.

Unit – IV

Population policy in India – shift in population control to family welfare to women empowerment, population and human development issues, new population policy, tasks before National Population Commission.

Suggested Readings:

1. Goodstein, E.S. (2002), Economics and the Environment, John Wiley, New York.
2. Bhattacharya, R.N. (ed) (2001), Environmental Economics: An Indian Perspective, Oxford, New Delhi.
3. Sengupta, R.P. (2001), Ecology and Economics: An Approach to Sustainable Development, Oxford, New Delhi.
4. Kadekodi, G.K. (2004), Environmental Economics in Practice, Oxford, New Delhi.
5. Bogue, D.J. (1971), Principles of Demography, John Wiley, New York.
6. Novell, C. (1988), Methods and Models in Demography, Bellhaven Press, London.
7. Srinivasan, K. (1998), Basic Demographic Techniques and Applications, Sage, New Delhi.
8. Simon, J.L. (1992), Population and Development in Poor Countries, Princeton University Press.
9. Bose, A (1996), India's Basic Demographic Statistics, B.R. Publishing Corporation, New Delhi.
10. Agarwala S.N. (1972), India's Population Problem, Tata McGraw-Hill, Bombay.
11. Chaubey, P.K. (2000), Population Policy in India, Kanisha Publications, New Delhi.

Note: The latest edition of the books is recommended..

MASTER OF ARTS (Economics)
Session 2021-22
OPT-XIV: Economics of Infrastructure

Course Outcomes:

After passing this course students will be able to:

CO1: understand the relevance of infrastructure in economic development of country.

CO2: understand key issues and problems with respect to regulation, governance and policies for the infrastructure sector.

CO3: apply key principles, concepts and tools relevant to the economic regulation of infrastructure industries.

CO4: explain how infrastructure solutions affect society, environment, and health.

CO5: apply this knowledge to the analysis of specific energy issues and policies in India.

CO6: understand the concepts of Cost- Benefit analysis and its application in the transport sector.

CO7: analyse different government policies for regulation and reform of the infrastructure sector.

MASTER OF ARTS (Economics)
Session 2021-22
OPT-XIV: Economics of Infrastructure

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I

Infrastructure and economic development – Infrastructure as a public good; Social and physical infrastructure; Special characteristics of public utilities. The peak-load, Off-peak load problem, Dual principle controversy; Economies of scale of joint supply.

Unit – II

The structure of transport costs and location of economic activities. Demand for transport models of freight and passenger demand. Cost functions in the transport sector. Principles of pricing. Special problems of individual modes of transport; Inter-model condition in the Indian situation. Rate-making in telephone utilities. Principles of decreasing costs in telephone industry.

Unit – III

Primacy of energy in the process of economic development. Factors determining demand for energy; Effect of energy shortages. Energy conservation, Renewable and non-conventional sources of energy, Energy modelling, Energy policy in the Indian context. Bulk supply and pricing of electricity. The relative economics of thermal, hydel and nuclear power plants. National power grid. Financing water utilities. Urban and rural water supply. The exploitation of natural gas. Pricing problem.

Unit – IV

Organization and financing of supply of social services. Private vs. public sector financing; Recent debate about the fixation of prices of social services. Development of social services in the successive Indian plans. Education and economic growth. Approaches to education planning. Social demand. Rate of return and manpower balance approaches. The case for universal and free primary education; Structure of higher education and problems of its financing in India; Human resources and human capital development. The issues in education policy; Health dimensions of development; Determinants of health – poverty, malnutrition, illiteracy and lack of information; Economic dimensions of health care – Demand and supply of health care; Financing of health care and resource constraints; Inequalities in health – class and gender perspectives; Institutional issues in health care delivery.

Suggested Readings:

1. Berman, P. and M.E. Khan (1993), Paying for India's Health Care, Sage Publications, New Delhi.
2. Centre for Monitoring Indian Economy (1996), India : Energy Sector, CMIE, Mumbai.
3. Eckstein, O. (1958), Water Resource Development, Harvard University Press, Cambridge.
4. Fariss, M.T. and R. Sampson (1975), Public Utilities, Houghton Mifflin, Boston.

5. Goyal, S.K. (Ed.) (1985), Public Enterprises, Indian Institute of Public Administration, New Delhi.
6. Jha, R., M.N. Murty and S. Paul (1990), On Fixing Prices for Postal Services in India, National Institute of Public Finance and Policy, New Delhi.
7. Indian Council of Social Sciences Research (ICSSR) (1976), Economics of Infrastructure, Vol. VI, New Delhi.
8. McMohan, W.W. (1999), Education and Development : Measuring the Social Benefits, Oxford University Press, Oxford.
9. National Council of Applied Economic Research (NCAER) (1996), India Infrastructure Report: Policy Implications for Growth and Welfare, NCAER, New Delhi.
10. Norton, H.S. (1971), Modern Transport Economics, C.E. Merrill, London.
11. Panchamukhi, P.R. (1980), Economics of Health : A Trend Report in ICSSR, A Survey of Research in Economics, Vol. VI, Infrastructure, Allied, Delhi.
12. Parikh, J. (Ed.) (1997), Energy Models for 2000 and Beyond, Tata McGraw-Hill, New Delhi.
13. Parikh, K.S. (Ed.) (1999), India Development Report – 1999-2000, Oxford, New Delhi.
14. Phillips, A. and O.E. Williamson (Eds.) (1967), Prices : Issues in Theory, Practice and Public Policy, University of Pennsylvania Press, Philadelphia.
15. Tilak, J.B.G. (1994), Education for Development in Asia, Sage Publications, New Delhi.
16. Turvey, R. and D. Anderson (1977), Electricity Economics, John Hopkins University Press, Baltimore.
17. Woodhall, M. (1992), Cost Benefit Analysis in Educational

Note: The latest edition of the books is recommended..

Master of Arts (Economics) Semester – II
Session: 2021-22
Course Code: MECL-2171
Microeconomics-II

Course Outcomes:

After passing this course students will be able to:

CO1: learn the production decisions of a producer in the context of inputs and different market structures.

CO2: to understand some aspects of managerial decision making.

CO2: to understand **t**he role of markets imperfections and basics of social welfare

Master of Arts (Economics) Semester – II
Session 2021-22
Course Code: MECL-2171
Microeconomics-II

Max. Marks: 100
Theory: 80
Time: 3 hours **CA: 20**

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit I

General Equilibrium conditions of Firm and Industry; Perfect Competition - Features, Short run and long run equilibrium of the firm and industry; price and output determination; supply curve. Monopoly – short run and long run equilibrium; price discrimination; inter-temporal price discrimination and peak-load pricing; monopoly control and regulation. Monopolistic competition – General and Chamberlin approaches to equilibrium, equilibrium of the firm and group with product differentiation and selling costs; excess capacity under monopolist competition; criticism of monopolistic competition.

Unit II

Oligopoly – Non-collusive (Cournot, Bertrand, Edgeworth, Chamberlin, Kinked demand curve and Stackelberg's solution) and collusive (Cartels and Mergers, Price leadership and Basing point price system) models. Price and output determination under monopsony and bilateral monopoly.

Unit III

Baumol's sales revenue maximization model, Williamson's model of managerial discretion, Marris model of managerial enterprise, Full cost pricing rule, limit pricing theory.
Game theory and competitive strategy- dominant strategies and nash equilibrium.
Neo-classical approach – Marginal productivity theory, Modern Theory of distribution.

Unit IV

Pigovian welfare economics: Measurement of social welfare, Pareto optimal conditions; Perfect competition and pareto optimality. Compensation principle. Social welfare function:Burgeson's criterion. Grand utility possibility frontier and welfare function. Market failure, Externalities and Property rights, Public goods, Incomplete information. Theory of Second Best. Arrow's impossibility theorem. Partial and General Equilibrium

Suggested Readings:

1. Ahuja, H.L. (2018), '*Advanced Economics Theory: Micro Economics analysis'*,S. Chand Publishing.
2. Dwivedi, D.N. (2018),*'Microeconomics: Theory and Applications'*, Pearson Education, New Delhi.
3. Koutsoyiannis, A. (2015), '*Modern Microeconomics',* Macmillan Press, London.
4. Sen, A. (2007), '*Microeconomics: Theory and Applications'*, Oxford University Press, New Delhi.

Note: The latest edition of the books is recommended.

Master of Arts (Economics) Semester – II
Course Code: MECL-2172
Macroeconomics-II

Course Outcomes:

After studying this course, students will:

CO1: be able to understand the Basic framework of IS-LM mechanism and relative effectiveness of monetary and fiscal policies

CO2: be able to understand the basic theories of inflation and its solutions.

CO3: be able to understand features of important growth models.

CO4: be able to understand the basic features of new classical and new Keynesian models.

Master of Arts (Economics) Semester – II
Session 2021-22
Course Code: MECL-2172
Macroeconomics-II

Max. Marks: 100
Theory: 80
Time: 3 hours **CA: 20**

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT– I

Neo–classical and Keynesian Synthesis: The IS–LM model, Extension of IS–LM model with government sector, labour market and flexible prices. General Equilibrium in Open Economy: Mundell–Fleming approach in fixed and flexible Exchange rate system, Shapes of IS-LM in open economy, Relative effectiveness of monetary and fiscal policies in closed and open economy.

UNIT– II

Theory of Inflation : Classical, Keynesian and Monetarist approaches, Structuralists' theory of inflation; Philips curve analysis: Short run and long run Philips curve, Natural Rate of Unemployment hypothesis, Adaptive expectations and rational expectations; Policies to control inflation.

UNIT– III

Business Cycles: Theories of Schumpeter, Kaldor, Samuelson, Hicks and Goodwin's model; Control of business cycles.

UNIT– IV

New classical Economics: Rational Expectation Hypothesis, Random Walk, Real Business cycle theory.
New Keynesian Economics: Sticky wage prices, Efficiency Wage models, Insider-Outsider Model.

Suggested Readings:
1. Froyen R. T, (2014), *Macroeconomics: Theory and Policies,* Dorling Kindersley, Noida UP, India.
2. Shapiro, E.(1996), *Macroeconomic Analysis,* Galgotia Publications, New Delhi.
Note: The latest edition of the books is recommended.

Master of Arts (Economics) Semester – II
Course Code: MECL-2453
Quantitative Methods for Economists-II

Course Outcomes:

After passing this course students will be able to:

CO1: understand the basic concepts and techniques for analysing data.

CO2: recognize the connection between theory and applications by appropriately fitting, assessing and interpreting the results/ outcomes.

CO3: develop statistical approach and thinking among students to problem solving.

Master of Arts (Economics) Semester – II
Session 2021-22
Course Code: MECL-2453
Quantitative Methods for Economists-II

Max. Marks: 100
Theory: 80
Time: 3 hours **CA: 20**

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

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UNIT– I

Meaning, assumptions and limitations of a simple correlation and regression analysis; Pearson's product moment and Spearman's rank correlation coefficients and their properties; Concept of the least–square technique and the lines of regression; Standard error of estimate; Partial and multiple correlation and regression (applications only).

UNIT– II

Analysis of Time Series : Definition, components of time series, measurement of trend by different methods, measurement of seasonal variations.

Methods of estimation of non–linear equations – Parabolic, Exponential, ModifiedExponential and Logistic Curves.

UNIT– III

Deterministic and non–deterministic experiments; Various types of events; Classical and empirical definitions of probability; Laws of addition and multiplication; Conditional probability and concept of independence; Baye's theorem and its applications; Elementary concept of random variable; Probability, mass and density functions; Expectation, Properties (without derivations) of binomial, Poisson and normal distributions.

UNIT– IV

Basic concepts of sampling – random and non–random methods of sampling; Concept of an estimator and its sampling distribution; Concepts of statistical hypotheses – Null and alternative : level of significance; Type–1 and Type–2 errors; Confidence interval; Hypothesis testing in respect of means and proportions.

Suggested Readings:

1. Gupta, S.C. (2018), *Fundamentals of Statistics*, Himalaya Publishing House ,Delhi
2. Gupta, S.P. (2017), *StatisticalMethods,*Sultan Chand & Sons, Delhi
3. Kapoor, V.K and Gupta, S.C. (2014) , *Fundamentals of Mathematical Statistics*, Sultan Chand & Sons, Delhi.

Note: The latest edition of the books is recommended..

MASTER OF ARTS (Economics) Semester - III
Session 2021-22
Course Code: MECL-3171
Course Title: Economics of Development

Course Outcomes:

After passing this course students will be able to:

CO1: demonstrate the understanding of difference between growth and development.

CO2: understand the concept of sustainable economic development and its importance.

CO3: learn hardcore economic prescriptions to development, concerns hitherto relegated to background like education, health, sanitation and infrastructural development.

MASTER OF ARTS (Economics) Semester - III
Session 2021-22
Course Code: MECL-3171
Course Title: Economics of Development

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit I

Economic growth and Economic development – Meaning and measurement. Concept of Sustainable development. Human Development Index and Physical Quality of Life Index (PQLI). Obstacles to Economic development. Sources of Economic growth. Growth and Income Distribution: The Kuznets Hypothesis.
Growth models – Harrod-Domar, Solow, Meade, Joan Robinson, Kaldor.

Unit II

Theories of Development – Classical, Marxian, Schumpeter, Stage theory. Approaches to Development – Myrdal's theory of circular causation, Social Dualism, Technological Dualism. Models of Dualistic growth (Lewis, Ranis and Fei and Jorgenson models).

Unit III

Strategies of development: Big push, Balanced growth, Unbalanced growth, Critical minimum efforts thesis, Low level equilibrium trap, Dependency theory. Agriculture and economic development.

Unit IV

Trade and development. Two-gap theory. Import substitution vs. Export-led strategies. Role of Capital formation; Internal and External sources of Capital formation; Human capital formation and Economic development. Role of Foreign capital in Economic development; Developmental aid; FDI; MNCs.

Suggested Readings:

1. Lekhi, R.K. and Singh, J. (2020), '*The Economics of development and planning'*, Kalyani Publisher.
2. Puri, V.K. & Misra, S.K. (2020),'*Economics of Development and Planning - Theory & Practice'*, Himalaya Publishing House, New Delhi.

Note: The latest edition of the books is recommended..

MASTER OF ARTS (Economics) Semester – III
Session 2021-22
Course Code: MECL-3172
Course Title: International Economics-I

Course outcome:

After passing this course students will be able to:

CO1: Understand the basis for and gains from international trade.

CO2: Understand the tariff and non-tariff barriers to international trade and their effects.

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MASTER OF ARTS (ECONOMICS) SEMESTER – III
Session 2021-22
Course Code: MECL-3172
Course Title: International Economics-I

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I
The pure theory of international trade – theories of Absolute advantage, Comparative advantage and Opportunity costs, Modern theory of international trade; Theorem of factor price equalization; Empirical testing of theory of absolute cost and comparative cost – Heckscher-Ohlin theory of trade.

Unit – II
Kravis and Linder theory of trade; Role of dynamic factors i.e. changes in tastes, technology and factor endowments in explaining the emergence of trade; The Rybnszynski theorem – concept and policy implications of immiserzing growth; Causes of emergence and measurement of intra industry trade and its impact on developing economies.

Unit – III
Measurements of gains from trade and their distribution; Concepts of terms of trade, their uses and limitations; Hypothesis of secular deterioration of terms of trade, its empirical relevance and policy implications for less developed countries; Trade as an engine of economic growth.

Unit – IV
The theory of interventions (Tariffs, Quotas and non-tariff barriers), Economic effects of tariffs and quotas on national income, output, employment, terms of trade, income distribution, balance of payments on trade partners both in partial and general equilibrium analysis; The political economy of non-tariff barriers and their implications; nominal, effective and optimum rates of tariffs – their measurement, impact and welfare implications.

Suggested Readings:

1. Bhagwati, J. (1981), '*International Trade: Selected Readings'*, Cambridge University Press, Massachusetts.
2. Krugman, P.B. and M. Dkstfeld (1994),'*International Economics, Theory and Policy',* Glenview, Foresman.
3. Salvatore, D. (1997), '*International Economics',* Prentice Hall, Upper Saddle, NJJ, New York.
4. Soderston, B.O. (1991), '*International Economics',* The Macmillan Press Ltd., London.

Note: The latest edition of the books is recommended..

MASTER OF ARTS (Economics) Semester – III
Session 2021-22
Course Code: MECL-3173
Course Title: Indian Economy

Course Outcomes:

After passing this course students will be able to:

CO1: understand the Indian development strategies and dynamics of problems of different sectors of Indian Economy

CO2: understand latest developments in social, agriculture, industry and external sector in India.

MASTER OF ARTS (Economics) - Semester III
Session 2021-22
Course Code: MECL-3173
Course Title: Indian Economy

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I

National Income of India: Growth, Structure, Inter-state variations, limitations of national income estimates.
Indian Planning: Change in basic strategy, objectives; Decentralized planning: Need and objectives; Achievements and Appraisal of 11th and 12th Five Year Plan; NITI Aayog.

Unit – II

Major Economic Problems: Population, Unemployment, Poverty and inequalities, Inflation. Social sector: health sectors- its growth and problems, higher education- its policies and problems.

Unit – III

Agriculture: Production and productivity trends, Role of institutional (Land reforms) and technological factors, Second Green Revolution, Agriculture Price Policy, Food Security and sustainable agricultural development.

Unit – IV

Industrial sector: Major policy changes before and after 1991; State of micro, small and medium enterprises, large scale industry; Public-private partnership, disinvestment in public sector enterprises.
Foreign sector: Composition, growth and pattern of trade, Role of MNCs, Balance of payment position,W.T.O. and India.

Suggested Readings:

1. Dutt and Sundram(2016), *Indian economy,* S.Chand Publications, New Delhi.
2. Chakravarty, S. (1987), *Development Planning: The Indian Experience,* Oxford University Press, New Delhi.
3. Government of India, Economic Survey, (Annual), Various Issues, Ministry of Finance, New Delhi.
4. Dhar, P.K. (2016), *Indian Economy: Its Growth and Dimensions,* Kalyani Publications.

Note: The latest edition of the books is recommended.

MASTER OF ARTS (Economics) - Semester IV
Session 2021-22
Course Code: MECL-4171
Course Title: Economics of Planning

Course Outcomes:

After passing this course students will be able to:

CO1: recognize different planning systems and relevance of planning in modern era.

CO2: understand the concept of technology, appropriate technology for under developed countries and transfer of technology from developed countries to developing countries.

CO3: appreciate the importance and limitations of planning in India.

MASTER OF ARTS (Economics) - Semester IV
Session 2021-22
Course Code: MECL-4171
Course Title: Economics of Planning

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I

Economic Planning: Meaning, objectives, rationale and types of planning; different planning systems;requisites for successful planning. Planning in third world countries in the context of Globalisation and Liberalisation.

Unit – II

Investment criteria: Rationale and types. Choice of Technique: Sen-Dobb Thesis; labour intensive vs. capital intensive technology; Choice of technique in underdeveloped countries and appropriate technique for UDC's. International transfer of technology- channels, importance and problems in the transfer of technology.

Unit – III

Project evaluation: Meaning, origin, rationale; Project planning and commercial profitability criteria; Social cost benefit analysis- Meaning and technique; Shadow Prices- Meaning, importance and methods to compute shadow prices; Little Mirrless and UNDIO approaches – A comparison.

Unit – IV

Indian plan models: Harrod-Domar, Mahalanobis, Frisch and Sandee, Manne and Rudra, CELP model and its applications. Indian Planning- Objectives, strategy and evaluation of Indian planning; Resource mobilization for Indian plans; NITI Aayog- composition, Functions and strategy.

Suggested Readings:

1. Lekhi, R.K. and Singh,Joginder.(2020),'*The Economics of development and planning'*, Kalyani Publisher.
2. Puri, V.K.&Misra,S.K.(2020),'*Economics of Development and Planning - Theory & Practice'*, Himalaya Publishing House, New Delhi.
3. Todaro, P.(2016) ,'*Development Planning : Models & Methods',* Oxford University press.

Note: The latest edition of the books is recommended.

Master of Arts (Economics) SEMESTER – IV
Session 2021-22
Course Code: MECL-4172
Course Title: International Economics-II

Course outcome:

After passing this course students will be able to:

CO1: be able to understand the concept, structure, disequilibrium causes and measures through which disequilibrium can be corrected and the exchange rate is determined.

CO2: able to understand the international monetary system: past and present.

CO3: able to understand the effect of economic integration in general and custom union in particular.

Master of Arts (Economics) Semester – IV
Session 2021-22
Course Code: MECL-4172
Course Title: International Economics-II

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I
Meaning and components of balance of payments; Equilibrium and disequilibrium in the balance of payments; The process of adjustment under systems of gold standard: Price Specie Flow Mechanism, fixed exchange rates and flexible exchange rates; Expenditure-reducing and expenditure-switching policies and direct controls for adjustment; Policies for achieving internal and external equilibrium simultaneously under alternative exchange rate regimes.

Unit – II
Exchange rate; meaning and theories for the determination of exchange rate (PPP, monetary, Portfolio, and balance of payments). A critical review of the monetary approach to the theory of balance of payments adjustment. Relative merits and demerits of fixed and flexible exchange rates in the context of growth and development in developing countries.

Unit – III
Forms of economic cooperation; Reforms for the emergence of trading blocs at the global level; Static and Dynamic effects of a custom union and free trade area; Regional Economic grouping: EU, SAARC, NAFTA and BRICS; Multilateralism and WTO; Theory of short-term capital movements and East-Asian Crisis and lessons for developing countries. Global Financial Crisis of 2008

Unit – IV
The Bretton Woods System: its working and reasons for its collapse, Emerging International Monetary System with special reference of Post-Maastrishit developments and developing countries; Reform of the International Monetary System, Portfolio and Foreign Direct Investments; International Debt Crisis. International economic institutions – Functions and achievements of GATT/WTO (TRIPS, TRIMS), UNCTAD/IMF: Need, adequacy and determinants of international reserves World Bank and Asian Development Bank – Their achievements and failures.

Suggested Readings:

1. Bhagwati, J. (1981), '*International Trade: Selected Readings'*, Cambridge University Press, Massachusetts.
2. Kindleberger, C.P. (1965), 'International Economics', R.D. Irwin, Homewood.
3. Krugman, P.B. and M. Dkstfeld (1994),'*International Economics, Theory and Policy',* Glenview, Foresman.
4. Salvatore, D. (1997), '*International Economics',* Prentice Hall, Upper Saddle, NJJ, New York.
5. Soderston, B.O. (1991), '*International Economics',* The Macmillan Press Ltd., London.

6. Godstein, M. (1998), The Asian Financial Crisis: Causes and Systematic Implication, Institute for International Economics, Washington, D.C.

Note: The latest edition of the books is recommended..

Master of Arts (ECONOMICS) SEMESTER – IV
Session 2021-22
Course Code: MECL-4173
Course Title: Punjab Economy

Course outcome:

After passing this course students will be able to:

CO1: To understand the dynamics of various problems of Punjab economy

CO2: To examine the causes of agrarian crisis in Punjab and find out ways to rejuvenate agriculture .

CO3: To analyse the issues involved in the slow growth of industries and suggest ways to tap the potentials for the growth of industries in Punjab.

CO4: To critically examine the financial parameters for financial stability.

Master of Arts (Economics) Semester – IV
Session 2021-22
Course Code: MECL-4173
Course Title: Punjab Economy

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I

Introduction to Punjab Economy
Structure of the economy, Population problem, Unemployment, Physical Infrastructure: Power,irrigation, transport and urbanization.

Unit – II

Agriculture: Output and cropping pattern; Green Revolution: Its impact and implication, Agricultural Diversification: Need, potential and constraints, Rural credit, Agricultural marketing, Contract farming: Need, growth and problems and Impact of W.T.O. on Agriculture.

Unit – III

Industrial Development: Pattern, performance and potential, State and Industrial development; Recent development in Industrial Policy in Punjab; Disinvestments in industries.

Unit – IV

Financial relations between centre and states, Recommendations of the latest Finance Commissions, Pattern of devolution of resources from Centre to Punjab, State Finances: Emerging pattern of revenue and expenditure in Punjab, Fiscal crisis in Punjab: Causes, impact, solutions.

Suggested Readings:

1.Singh. S., Singh, I. and Singh, L. (2014), *Punjab's Economics Development In The Era of Globalization*, ABDistributors Prakash book depot.
2. Bawa, R.S. and Raikhy, P.S.(2000), *Punjab Economy: Emerging Issues*, G.N.D.U. Amritsar.
3. Punjab Government, Statistical abstract of Punjab.
4. Punjab Government, Punjab Budget

Note: The latest edition of the books is recommended..

(ANNEXURE -E)

FACULTY OF ECONOMICS & BUSINESS

SYLLABUS
of
Bachelor of Science (Additional/Optional Course in Banking)
(Semester I - VI)
(Under Continuous Evaluation System)

Session: 2021-22

The Heritage Institution
KANYA MAHA VIDYALAYA
JALANDHAR
(Autonomous)

B.Sc. (Economics) with banking as an Additional optional Subject

Students can opt Banking as an additional subject. In all semester students have to study one additional paper on the banking. The program aims to build solid knowledge base in all aspects related to banking regulation, financial structure along with economic principles and issues.

Upon successful completion of this course, students will be able to:

PSO1: develop mathematical, logical and analytical ability.

PSO2: critically reflect on the causes and consequences of financial and banking crises.

PSO3: prepare banking P.O. exams and take leadership & managerial role in banking.

KanyaMahaVidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of
Bachelor of Science (Additional / Optional Course in Banking)
Session: 2021-2022

<table>
<tr><th colspan="10">Bachelor of Science, Semester I
(Additional / Optional Course in Banking)</th></tr>
<tr><th rowspan="3">Course Name</th><th rowspan="3">Program Name</th><th rowspan="3">Course Code</th><th rowspan="3">Course Type</th><th colspan="5">Marks</th><th rowspan="3">Examination time (in Hours)</th></tr>
<tr><th rowspan="2">Total</th><th colspan="2">Ext.</th><th rowspan="2">CA</th></tr>
<tr><th>L</th><th>P</th></tr>
<tr><td>Banking (Banking and Basic Operations)</td><td>Bachelor of Science (Additional / Optional Course in Banking)</td><td>BECL-1026</td><td>O</td><td>100</td><td>80</td><td>--</td><td>20</td><td>2:00</td></tr>
</table>

O-Optional
Marks of these papers will not be added in total marks and only grades will be provided

FACULTY OF ECONOMICS & BUSINESS

SYLLABUS

Bachelor of Arts/ **Bachelor of Science, Semester II** **(Additional / Optional Course in Banking)**								
Course Name	**Program Name**	**Course Code**	**Course Type**	**Marks**				**Examination time (in Hours)**
				Total	**Ext.**		**CA**	
					L	**P**		

of

Bachelor of Science (Additional/Optional Course in Banking)
(Semester I - VI)
(Under Continuous Evaluation System)

Session: 2021-22

The Heritage Institution
KANYA MAHA VIDYALAYA
JALANDHAR

(Autonomous)

Bachelor of Arts/Bachelor of Science (Economics) with banking as an Additional optional Subject

Students can opt Banking as an additional subject. In all semester students have to study one additional paper on the banking. The program aims to build solid knowledge base in all aspects related to banking regulation, financial structure along with economic principles and issues.

Upon successful completion of this course, students will be able to:

PSO1: develop mathematical, logical and analytical ability.

PSO2: critically reflect on the causes and consequences of financial and banking crises.

PSO3: prepare banking P.O. exams and take leadership & managerial role in banking.

Kanya MahaVidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of
Bachelor of Arts/Bachelor of Science (Additional / Optional Course in Banking)
Session: 2021-2022

Bachelor of Arts/Bachelor of Science, Semester I (Additional / Optional Course in Banking)								
Course Name	**Program Name**	**Course Code**	**Course Type**	**Marks**				**Examination time (in Hours)**
				Total	**Ext.**		**CA**	
					L	**P**		
Banking (Banking and Basic Operations)	Bachelor of Arts/Bachelor of Science (Additional / Optional Course in Banking)	BARL-1026/ BECL-1026	O	100	80	--	20	2:00

O-Optional
Marks of these papers will not be added in total marks and only grades will be provided.

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of
Bachelor of Arts/Bachelor of Science (Additional / Optional Course in Banking)
Session: 2021-2022

<table>
<tr><th colspan="10">Bachelor of Arts/ Bachelor of Science, Semester II

(Additional / Optional Course in Banking)</th></tr>
<tr><th rowspan="3">Course Name</th><th rowspan="3">Program Name</th><th rowspan="3">Course Code</th><th rowspan="3">Course Type</th><th colspan="4">Marks</th><th rowspan="3">Examination time

(in Hours)</th></tr>
<tr><th rowspan="2">Total</th><th colspan="2">Ext.</th><th rowspan="2">CA</th></tr>
<tr><th>L</th><th>P</th></tr>
<tr><td>Banking

(Reasoning and Mental Ability)</td><td>Bachelor of Arts/Bachelor of Science (Additional / Optional Course in Banking)</td><td>BARL-2026/ BECL-2026</td><td>O</td><td>100</td><td>80</td><td>--</td><td>20</td><td>2:00</td></tr>
</table>

O-Optional
Marks of these papers will not be added in total marks and only grades will be provided

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of

Bachelor of Arts/Bachelor of Science (Additional / Optional Course in Banking)

Session: 2021-2022

<table>
<tr><th colspan="9">Bachelor of Arts/Bachelor of Science, Semester III

(Additional / Optional Course in Banking)</th></tr>
<tr><th rowspan="3">Course Name</th><th rowspan="3">Program Name</th><th rowspan="3">Course Code</th><th rowspan="3">Course Type</th><th colspan="4">Marks</th><th rowspan="3">Examination time

(in Hours)</th></tr>
<tr><th rowspan="2">Total</th><th colspan="2">Ext.</th><th rowspan="2">CA</th></tr>
<tr><th>L</th><th>P</th></tr>
<tr><td>Banking

(General Awareness)</td><td>Bachelor of Arts/Bachelor of Science (Additional / Optional Course in Banking)</td><td>BARL-3026/ BECL-3026</td><td>O</td><td>100</td><td>80</td><td>--</td><td>20</td><td>2:00</td></tr>
</table>

O-Optional

Marks of these papers will not be added in total marks and only grades will be provided

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of

Bachelor of Arts/Bachelor of Science (Additional / Optional Course in Banking)

Session: 2021-2022

Bachelor of Arts/Bachelor of Science, Semester IV (Additional / Optional Course in Banking)								
Course Name	**Program Name**	**Course Code**	**Course Type**	**Marks**				**Examination time (in Hours)**
				Total	**Ext.**		**CA**	
					L	**P**		
Banking (Financial Markets and Institutions)	Bachelor of Arts/Bachelor of Science (Additional / Optional Course in Banking)	BARL-4026/ BECL-4026	O	100	80	--	20	2:00

O-Optional

Marks of these papers will not be added in total marks and only grades will be provided

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of

Bachelor of Science (Additional / Optional Course in Banking)

Session: 2021-2022

<table>
<tr><th colspan="10">Bachelor of Science, Semester V
(Additional / Optional Course in Banking)</th></tr>
<tr><th rowspan="3">Course Name</th><th rowspan="3">Program Name</th><th rowspan="3">Course Code</th><th rowspan="3">Course Type</th><th colspan="4">Marks</th><th rowspan="3">Examination time
(in Hours)</th></tr>
<tr><th rowspan="2">Total</th><th colspan="2">Ext.</th><th rowspan="2">CA</th></tr>
<tr><th>L</th><th>P</th></tr>
<tr><td>Banking (Basic Accounting)</td><td>Bachelor of Science (Additional / Optional Course in Banking)</td><td>BECL-5026</td><td>O</td><td>100</td><td>80</td><td>--</td><td>20</td><td>2:00</td></tr>
</table>

O-Optional
Marks of these papers will not be added in total marks and only grades will be provided.

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

Scheme and Curriculum of Examinations of

Bachelor of Science (Additional / Optional Course in Banking)

Session: 2021-2022

<table>
<tr><th colspan="9">Bachelor of Science, Semester VI

(Additional / Optional Course in Banking)</th></tr>
<tr><th rowspan="3">Course Name</th><th rowspan="3">Program Name</th><th rowspan="3">Course Code</th><th rowspan="3">Course Type</th><th colspan="4">Marks</th><th rowspan="3">Examination time

(in Hours)</th></tr>
<tr><th rowspan="2">Total</th><th colspan="2">Ext.</th><th rowspan="2">CA</th></tr>
<tr><th>L</th><th>P</th></tr>
<tr><td>Banking (Quantitative Aptitude)</td><td>Bachelor of Science (Additional / Optional Course in Banking)</td><td>BECL-6026</td><td>O</td><td>100</td><td>80</td><td>--</td><td>20</td><td>2:00</td></tr>
</table>

O-Optional

Marks of these papers will not be added in total marks and only grades will be provided

Bachelor of Arts/Bachelor of Science with Additional / Optional Course in Banking
(Semester 1)
Session 2021-22
Course Code: BARL-1026/BECL-1026
Banking & Basic operations

Course Outcomes:

After passing this course students will be able to:

CO1: understand the structure of banking sector and working of basic banking operations .

CO2: analyze the impact of monetary policies on different sectors.

CO3: understand various types of loan schemes for household and industrial sectors.

Bachelor of Arts/Bachelor of Science with Additional / Optional Course in Banking (Semester I)
Session 2021-22
Course Code: BARL-1026/BECL-1026
Banking & Basic operations

Time: 2:00 Hours | **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setters/Examiners:

Sixty Multiple Choice Questions (MCQs), **fifteen** from each of the four Units (I-IV) are to be set. Each question carries **2 marks**. Candidates are required to attempt forty **(40)** MCQs, selecting at least eight **(8)** MCQs from each unit. The remaining eight **(8)** MCQs may be attempted from any Unit.

Unit –I

History of Banking, Types of Banks-Public Sector , Private Sector and Foreign Banks , Cooperative Banking in India : History, Structure and its Working, Nationalization of Banking, Merger and Privatization of banks, Banking Regulation Act, Major Banking Reforms of 21st century and Financial Inclusion , Important Commissions and Committees in Banking.

Unit II

Reserve Bank of India: History, Structure, Functions and Guidelines for the Regulations of Banks, Monetary policy- Objectives and Instruments, Introduction to Basel norms.

Unit III

Banking operations: Types of Account, Various Negotiable Instruments, RTGS, MSF and NEFT, BHIM and UPI, Payment Codes: MICR, IFSC, UTR etc., e-banking.

Unit IV

Priority Sector Loans -: Common Guidelines for Priority Sector Loans with focus on Agriculture, MSMEs and Education and Non-Performing Assets, Kisan Credit Card Scheme, Prime Minister Fasal BimaYojna (PMFBY), MUDRA, National Equity Fund Scheme, Credit Cards for MSMEs.

Insurance: LIC, GIC, IRDAI, Insurance Law (Amendment Bill) 2015, Bancassurance.

Post Office Saving Schemes

Suggested Readings:

1. Experts (2020), *Banking Awareness*, Arihant Publications, India.
2. Experts (2019), *Financial Awareness for Competitive Exam*, Disha Publication.
3. Gupta, R. (2014), *Guide to Banking General Awareness & Banking Aptitude Test*, Ramesh Publishing House, New Delhi.
4. Toor, N.S. (2019), *Handbook of Banking Information*, Skylark Publications, New Delhi.

Note: The latest edition of the books is recommended.

Bachelor of Arts/ Bachelor of Science with Additional / Optional Course in Banking
(Semester-II)
Session 2021-22
Course Code: BARL-2026/BECL-2026
BANKING (Reasoning and Mental Ability)

Course Outcomes:

After passing this course students will be able to:

CO1: apply general mathematical models to solve a variety of problems.

CO2: use scientific reasoning to interpret psychological phenomena.

CO3: draw conclusions or make decisions in quantitatively based situations and will analyze how different situations would affect the decisions.

Bachelor of Arts/Bachelor of Science with Additional/Optional Course in Banking
(Semester-II)
Session 2021-22
Course Code: BARL-2026/BECL-2026
BANKING (Reasoning and Mental Ability)

Time: 2:00 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setters/Examiners:
Sixty Multiple Choice Questions (MCQs), fifteen from each of the four Units (I-IV) are to be set. Each question carries 2 marks. Candidates are required to attempt forty (40) MCQs, selecting at least eight (8) MCQs from each unit. The remaining eight (8) MCQs may be attempted from any Unit.

UNIT I

Analogy: Number Analogy, Letter Analogy and Word Analogy.
Classification Test: Alphabet classification and Number Classification.
Series Completion: Prime Number, Difference, Multiplication, Division, Even and Odd Series, Letter Series, Alpha Numeric Series.

UNIT II

Coding and Decoding. Order and Ranking. Blood Relations. Direction Sense Test. Seating Arrangements (Linear, Circular, Square, Floor based).

UNIT III

Figures and Images -Odd figures, Mirror image, Water image, Paper cutting, Folding &Punching, Completion of Figural Series , Embedded figure; Cubes and Dice; Logical Venn Diagram.

UNIT IV

Logical Sequence of Words. Mathematical operations-BODMAS. Clock and Calendar.

Suggested Readings:

1. Aggarwal, R.S. (2000), *Modern Approach to Verbal and Non –Verbal Reasoning*, S. Chand Publications, Delhi.
2. Jha, R.K. (2020), *General Intelligence and Reasoning Test*, Arihant Publications, Meerut.

Note: The latest edition of the books is recommended.

Bachelor of Arts/Bachelor of Science with Additional / Optional Course in Banking
(Semester-III)
Session 2021-2022
Course Code: BARL-3026/BECL-3026
Banking (General Awareness)

Course Outcomes:

After passing this course students will be able to**:**

CO1: understand the ancient, medieval and modern history of India from the rise of Indus Valley civilization to freedom struggle.

CO2: understand the general concept of constitutional framework, importance and structure of judiciary system.

CO3: have an understanding of Indian economy, planning process in India, tax structure and policies of central government.

CO4: demonstrate in depth familiarity with the current affairs related to social sciences.

Bachelor of Arts/Bachelor of Science with Additional/Optional Course in Banking
(Semester-III)
Session 2021-2022
Course Code: BARL-3026/BECL-3026
Banking (General Awareness)

Time: 2:00 hrs **Max. Marks: 100**
Theory: 80
Internal Assessment: 20

Note: Instructions for the Paper–Setters/Examiners:
Sixty Multiple Choice Questions (MCQs) ,fifteen from each of the four Units (I-IV) are to be set. Each question carries 2 marks. Candidates are required to attempt forty (40) MCQs, selecting at least eight (8) MCQs from each unit. The remaining eight (8) MCQs may be attempted from any Unit.

UNIT I

Indian History
Ancient History: The Indus Civilization- Harappan and Mohenjodaro, Vedic era.
Medieval history: Mahmud Ghaznavi, Delhi Sultanate, Mughal Dynasty**.**
Modern History: Establishment of Maratha Power, European powers, Foundation of British rule, Freedom Struggle.

UNIT II

Indian Polity
Indian constitution: Historical Background, Preamble, Articles and Schedules, Citizenship, Fundamental Rights, Fundamental Duties and Directive Principles of State Policy. Election Commission. Judiciary System- High Court and Supreme Court. National Symbols.

UNIT III

Indian Economy
Agriculture and Industrial policies of India. Planning- Five-year plans; NITI Aayog. Finance Commission. Taxation System- Direct taxes, Indirect taxes and GST. Fiscal Policy.

UNIT IV

Current Affairs: Annual Financial and Railway Budget, Introduction to Current Schemes and Policies implemented by Government, National and International Organizations: IMF, World Bank, ADB, ILO,UNO,UNESCO ,SAARC, BRICS.
Important days and dates. Current Cabinet Ministers and Governors.

Suggested Readings:
1. Lucent's. (2021),' *General Knowledge'* ,Lucent Publications.
2. Pandey, Manohar. (2021),'General *Knowledge'* ,Arihant Publications.

Note: The latest edition of the books is recommended..

Bachelor of Arts/Bachelor of Science with Additional/Optional Course in Banking
(Semester IV)
Session 2021-22
Course Code: BARL-4026/BECL-4026
Financial Markets and Institutions

Course Outcomes:

After passing this course students will be able to:

CO1: understand the instruments of money and capital market in India.

CO2: learn the working of Securities Exchange Board of India

CO3: analyse and compare the working of banking and non-banking financial institutions.

Bachelor of Arts/Bachelor of Science with Additional/Optional Course in Banking
(Semester IV)
Session 2021-22
Course Code: BARL-4026/BECL-4026
Financial Markets and Institutions

Time: 2:00 hrs **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setters/Examiners:

Sixty Multiple Choice Questions (MCQs), **fifteen** from each of the four Units (I-IV) are to be set. Each question carries **2 marks**. Candidates are required to attempt forty **(40)** MCQs, selecting at least eight **(8)** MCQs from each unit. The remaining eight **(8)** MCQs may be attempted from any Unit.

UNIT I

Money Supply in India: M1, M2, M3, M4, L1, L2, L3.
Money Market in India: Functions, Instruments-Certificates of deposits, Commercial papers, Treasury Bills and Call Money Markets.
Recent developments in Money market: Money Market Mutual Fund (MMMFs), DFHI, Liquidity Adjustment Facility (LAF), Clearing Corporation of India (CCIL), Repurchase Transaction (REP) Reserve Bank Directions 2018.

UNIT II

Capital Markets in India: Instruments of Primary Market, Secondary Market and Derivatives Market.
Mutual Funds: Meaning, Concept and Types of Mutual Funds.

UNIT III

Shares, Equity and Performance Shares, Debentures and Bonds.
Security and Exchange Board of India (SEBI): Concept and its Working.
Bombay Stock Exchange, National Stock Exchange, Over the Counter Exchange of India.

UNIT IV

Financial Institutions: Functions and Objectives.
Financial institutions for Agriculture: Commercial Banks, Land Development Banks, Regional Rural Banks (RRBs), Co-operative Credit Societies, NABARD.
Financial Institutions for Industry: IFCI, IDBI, ICICI, SIDBI, EXIM.
Non-Banking Financial Companies: Types and RBI Directions for NBFCs.

Suggested Readings:

1. Experts (2020) *Banking Awareness*, Arihant Publications.
2. Experts *(2016) Financial Awareness for Competitive Exam*, Disha Publication.
3. Gupta, R.(2019) *Guide to Banking General Awareness & Banking Aptitude Test*, Ramesh Publishing House.
4. Toor, N.S. (2018) *Handbook of Banking Information*, Skylark Publications.

Note: The latest edition of the books is recommended..

Bachelor of Science with Additional / Optional Course in Banking
(Semester-V)
Session 2021-2022
Course Code: BECL-5026
Banking (Basic Accounting)

Course Outcomes:

After successful completion of this course, students will be able to –

CO1: Acquire conceptual knowledge of basic accounting and gain skills required for recording various kinds of business transactions.
CO2: Recognize circumstances providing for increased exposure to fraud and define preventative internal control measures.
CO3: Prepare financial statements in accordance with Generally Accepted Accounting Principles
CO4: Prepare final accounts of sole proprietor (Trading account, Profit & Loss Account and Balance Sheet).
CO5: Prepare final accounts of Banking Institutions as per Banking Regulation Act.

Bachelor of Science with Additional / Optional Course in Banking
(Semester-V)
Session 2021-2022
Course Code: BECL-5026
Banking (Basic Accounting)

Time: 2:00 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setters:
Sixty Multiple Choice Questions (MCQs), fifteen from each of the four Units (I-IV) are to be set. Each question carries 2 marks. Candidates are required to attempt forty (40) MCQs, selecting at least eight (8) MCQs from each unit. The remaining eight (8) MCQs may be attempted from any Unit.

Unit-I

Introduction: Financial Accounting-Definition and Scope, Objectives of Financial Accounting, Accounting v/s Book Keeping, Terms used in accounting, Users of Accounting Information and Limitations of Financial Accounting.
Conceptual Frame work: Accounting Concepts, Principles and Conventions.
Recording of Transactions: Accounting Process/Cycle, Journal.

Unit-II

Subsidiary Books, Ledger, Cash Book, Trial Balance, Bank Reconciliation Statement.
Depreciation: Meaning, need & importance of depreciation, methods of charging depreciation (WDV & SLM).

Unit-III

Final Accounts: Meaning of Financial Statements, Usefulness of Financial Statements, Elements of Financial Statements**,** Preparation of Trading and Profit & Loss Account and Balance Sheet without Adjustments.

Unit-IV

Introduction to Final Accounts of Banking Institutions: Preparation of final accounts of a Banking Institutions & Understanding the Annual Report of banks.
Computerised Accounting: Introduction to Accounting software package (Tally)

Suggested Readings:

1. Gupta, Ambrish, "Financial Accounting for Management: An Analytical Perspective", Pearson Education, New Delhi.
2. Khatri, Dhanesh, "Financial Accounting" Tata McGraw-Hill, New Delhi.
3. Horngren, Charles T., Sundem, Gart l, Elliot, John A. Philbrick, Donna R., "Introduction to Financial Accounting", Prentice Hall¸ New Delhi.
4. Ramachandran, N and Kakani, Ram, "Financial Accounting for Management", Tata McGraw-Hill,New Delhi.
5. Shukla, M.C., Grewal T.S. and Gupta, S.C., "Advance Accounts", Sultan Chand & Sons, New Delhi.

Note: The latest edition of the books is recommended..

Bachelor of Science with Additional / Optional Course in Banking
(Semester VI)
Session 2021--22
Course Code: BECL-6026
Quantitative Aptitude

Course Outcomes:

After passing this course students will be able to:

CO1: learn short tricks to solve mathematical problems.

CO2: draw conclusions or make decisions in quantitatively based situations.

CO3: analyze and interpret the numerical data.

Bachelor of Science with Additional / Optional Course in Banking
(Semester VI)
Session 2021--22
Course Code: BECL-6026
Quantitative Aptitude

Time: 2:00 hrs | **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setters/Examiners:

Sixty Multiple Choice Questions (MCQs), **fifteen** from each of the four Units (I-IV) are to be set. Each question carries **2 marks**. Candidates are required to attempt forty **(40)** MCQs, selecting at least eight **(8)** MCQs from each unit. The remaining eight **(8)** MCQs may be attempted from any Unit.

Unit I

Simplification
Number Series and Number System
Quadratic Equation
Percentages

Unit II

Ratio and Proportion
Profit & Loss
Interest: Simple and Compound
Average

Unit III

Problem on ages
Speed, Time and Distance
Time and Work
Mixture and Allegation

Unit IV

Permutation and Combination
Data Interpretation: Tabular Chart, Line Graph, Bar Graph, Pie Chart, Mixed Graph.

Suggested Readings:

1. Aggarwal, R.S. (2020), '*Quantitative Aptitude'*, S. Chand Publications.
2. Sharma, A. *(2019), 'Teach Yourself Quantitative Aptitude', McGraw Hill.*
3. Tyra, M. *(2018), 'Magical Book on Quicker Maths', BSC Publishing Co. Pvt. Ltd.*

Note: The latest edition of the books is recommended.

(ANNEXURE -F)

FACULTY OF ECONOMICS & BUSINESS

SYLLABUS

For

Bachelor of Arts/Bachelor of Science (Economics): Semester III-VI

in

(Economics Honours)

(Under Continuous Evaluation System)

(12+3 System of Education)

Session: 2021–22

The Heritage Institution

KanyaMahaVidyalaya, Jalandhar

(Autonomous)

Scheme of Studies and Examination

Bachelor of Arts/Bachelor of Science (Economics): – Semester: III, IV

Economics Honours

Program Name	Course Code	Course Type	Marks				Examination time (in Hours)
			Total	Ext.		CA	
				L	P		
B.A./B.Sc.(Economics)Economics Honours- Sem III	BARL-3609/ BECL-3607 (OPT-__)	E	100	80	--	20	3

Program Name	Course Code	Course Type	Marks				Examination time (in Hours)
			Total	Ext.		CA	
				L	P		
B.A./B.Sc.(Economics)Economics Honours- Sem-IV	BARL-4609/ BECL-4607 (OPT-__)	E	100	80	--	20	3

Scheme of Studies and Examination

Bachelor of Arts/Bachelor of Science (Economics): – Semester: V, VI

Economics Honours

<table>
<tr><th rowspan="3">Program Name</th><th rowspan="3">Course Code</th><th rowspan="3">Course Type</th><th colspan="4">Marks</th><th rowspan="3">Examination time (in Hours)</th></tr>
<tr><th rowspan="2">Total</th><th colspan="2">Ext.</th><th rowspan="2">CA</th></tr>
<tr><th>L</th><th>P</th></tr>
<tr><td>B.A./B.Sc.(Economics)Economics Honours- SemV</td><td>BARL-5609/ BECL-5607 (OPT-__)</td><td>E</td><td>100</td><td>80</td><td>--</td><td>20</td><td>3</td></tr>
</table>

<table>
<tr><th rowspan="3">Program Name</th><th rowspan="3">Course Code</th><th rowspan="3">Course Type</th><th colspan="4">Marks</th><th rowspan="3">Examination time (in Hours)</th></tr>
<tr><th rowspan="2">Total</th><th colspan="2">Ext.</th><th rowspan="2">CA</th></tr>
<tr><th>L</th><th>P</th></tr>
<tr><td>B.A./B.Sc.(Economics)Economics Honours- Sem-VI</td><td>BARL-6609/ BECL-6607 (OPT-__)</td><td>E</td><td>100</td><td>80</td><td>--</td><td>20</td><td>3</td></tr>
</table>

Any one of the following options:

Sr. No.	Course Title
OPT-1	Money and Banking
OPT-2	Public Finance
OPT-3	History of Economic Thought
OPT-4	International Economics
OPT-5	Industrial Economics
OPT-6	Economics of Agriculture
OPT-7	Agriculture Marketing
OPT-8	Economics of Public Enterprises
OPT-9	Introduction to Econometrics

NOTE:-The student who wishes to opt for B.A. (Hons.) in Economics will take oneoption in Semester–III & IV out of nine options not already opted for.

B.A. / B.Sc. Eco. (Economics Honours)
OPT-1: MONEY AND BANKING

Course Outcomes:

After passing this course students will be able to:

CO1: understand several key models and concepts of monetary economics and banking theory.

CO2: demonstrate an understanding of nature of money and the role of banks and financial markets in the economy.

CO3: understand the role of banks in modern monetary economies and financial Intermediation.

B.A. / B.Sc. Eco. (Economics Honours)
OPT–I: MONEY AND BANKING

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Money: Nature, Kinds, Functional, Near Money, Broader Definition of Money. Measures of Money Supply in India.
Demand for Money: Quantity and Cash Balance Theories of Money, Keynesian Theory of Money, Don Patinkin, Friedman and Gurley Shaw Approaches.

UNIT–II

Structure and Rate of Interest Approaches, Structure of Interest Rates and Interest Rate Policy in India.
IS and LM Functions. Neutrality of Money. Integration of Theory of Value and Theory of Money.

UNIT–III

Commercial Banks: Their Systems and Functions, Credit Creation and Structure of Commercial Banks in India.
Central Banking: Functions and Techniques of Monetary Management. Non–banking Financial Institutions: Role and Functions.

UNIT–IV

Monetary Policy in India: Objectives, Instruments and Limitations of Credit Control by the Policy in India.
International Monetary Co-operation: International Monetary Fund, International Bank for Reconstruction Developments,International Finance Corporation. International Development Association and Asian Development Bank.

Suggested Readings:

1. Luckett, D.G. (1976), "*Money and Banking",* McGraw Hill, New York.
2. Thorn, R.S.(1976), "*Introduction to Money and Banking"*, Harper and Row, New York.
3. Gupta, S.B. (1997), *Monetary Planning in India*, Oxford University Press, Delhi.
4. Paul, R.R. (2018), *Monetary Economics*, Kalyani Publishers, New Delhi.

Note: The latest edition of the books is recommended.

B.A. / B.Sc. Eco. (Economics Honours)
OPT-2: Public Finance

Course outcome:

After passing this course students will be able to:

CO1: analyze the functioning of modern public finance.

CO2: classify public revenues and expenditures through the budget and to analyzethe instruments and objectives of budgetary policy.

CO3: Study the Effects of public expenditure on production, distribution, social over head capital, stability and Innovation.

B.A. / B.Sc. (Economics) (Economics Honors)
OPT-2: Public Finance

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Principles of Public Finance: Subjective and Objective Criteria. Theories of Public Expenditure:Wagner and keynes. Theory of Social Goods: distinction between public, private and meritgoods.Canons of public expenditure; Classification of public expenditure: obligatory and optional expenditure, revenue and capital expenditure, development and non-development expenditure,plan and non-plan expenditure, productive and unproductive expenditure. Public expenditure andeconomic growth.

UNIT–II

Effects of public expenditure on production, distribution, social over head capital, stability and Innovation.Criteria of Public expenditure.

Theory of public revenue: Theories of Taxation Benefits Principle; Cost of Service Principle;Ability to Pay Theory; Principle of Equity. Effects of taxation.

UNIT–III

Analysis of major taxes: income tax, expenditure tax, corporation tax, wealth tax, excise duties,sales tax, customs duties. The concept of taxable capacity, Taxation in a developing economy.

Fiscal incidence: theories of tax shifting, Concepts of impact and incidence. Measurement of incidence.

Public Debt: Role of Public Debt. Different forms of public debt. Significance and Burden of Public debt, Reduction of public debt, Debt management.

UNIT–IV

Budgetary Policy: Functional and economic classification of budgets and their uses. Performance budgets.Budget as an instrument of mobilisation and canalisation of resources and redistribution of income and wealth, Balance and unbalanced budgets.

Fiscal Federalism: Principles of federal finance. Development Financial: Functional Finance vs Development Finances, Mobilisation of financial resources for planned development. Centre-state financial relations.FRBM.

Suggested Readings:

1.R.K.Lekhi ,Joginder Singh (2015)"*Public finance"*,Kalyani Publisher.
2.Tyagi B.P.(2015), "*Public Finance"* , Jai PrakashNath& Company, Meerut.

Note: The latest edition of the books is recommended..

B.A./B.Sc. Eco. (Economics Honours)
OPT-3 (History of Economic Thought)

Course Outcomes:

After passing this course students will be able to:

CO1: understand key models and concepts of the history of economic thought.

CO2: produce simple appreciations of the history of economic thought texts.

CO3: understand the development of economic thought in the context of the evolving global economy and from a historical perspective.

B.A./B.Sc. Eco.(EconomicsHonours)
OPT-3: History of Economic Thought

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Mercantilism: Main ideas and principles: Petty, Hume and Cantillon; Physiocracy: NaturalOrder, Net product and Tableau Economique.

The Classical School: Adam Smith and Ricardo – Value, Distribution, International Trade; J.S.Mill on Markets; Malthusian theory of population and gluts.

UNIT–II

The Socialists and the Historical School: Saint Simon; Sismondi and Proudhon – Critics of classicism; The German and the British Historical School.

Marxian Economics: Marxian philosophy; Theory of value and surplus value; theory ofdevelopment and business cycles; Marx and underdeveloped economies.

UNIT–III

The Austrian and the Marginalist School: Gossen; J.B. Clark; Carl Merger; Jevoes; Wieser,Bohm–Bawerk and the marginalist revolution; Salient features of subjecticism and marginalism.

The Neo-classical School and Marshallian Economics: Wicksteed and Wicksell on theory ofdistribution and theory of capital; Marshallian value and distribution.

UNIT–IV

Institutional and Welfare economics: Vilfredo Pareto; Thorstein Veblen; Hobson; A.C. Pigouand K. Arrow.

Keynesian and Post Keynesian Economics: Consumption function; multiplier; theory of interestand investment; business cycles; Keynes vsclassicals; Patinkin and Friedman on quantity theoryof money; Hayek and Hicks as business cycles; Kaldor and Joan Robinson on growth anddistribution.

Suggested Readings:

1. Haney: History of Economic Thought, SurjeetPublicaions, Delhi.
2. Blaug, M.: Economic Theory in Retrospect, Cambridge Uni. Press.
3. Schumpeter, J.: History of Economic Analysis, George Allen &Unwin, London.
4. Roll. E.: History of Economic Thought.
5. Gide and Rist: A History of Economic Doctrines, Oxford Univ., Calcutta.

Note: The latest edition of the books is recommended..

B.A./B.Sc. Eco. (Economics Honours)
OPT-4: International Economics

Course outcome:

After passing this course students will be able to:

CO1: understand economic relationship between countries, covering trade and monetary issues.

CO2: understand the balance of payment problems and the exchange rate determination.

CO3: understand the critical aspects of current policies environment such as economic integration, issues of international liquidity and reviews the financial crisis such as East-Asian crisis.

B.A. / B.Sc. Eco. (Economics Honours)
OPT-4: International Economics

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

The Pure Theory of International Trade: Theories of Absolute Advantage, Comparative Advantage and Oppurtunity costs, Heckscher Ohlin Theory, Factor Price Equalization.
Gains from trade, their measurement and distribution.Terms of trade, Secular deterioration hypothesis.

UNIT–II

Commercial Policy: The theory of Tariffs, Optimum and effective rate of tariff. Non-tariff barriers to trade.Inter–relationship between trade, aid and economic development.The forms of economic integration among nations, the theory of customs union.

UNIT–III

Meaning, concept and the Process of adjustment in the balance of payments.The concept of Foreign Trade multiplier.
Concept of equilibrium exchange rate, theories for determination of exchange rate, Fixed vs. Flexible exchange rate.

UNIT–IV

Current problems of Trade and finance of developing countries.Role of Multinational corporations in the developing countries.
Problems of International liquidity, I.M.F., SDRs. Proposals for international monetary reforms. New international Economic order. Euro–dollar and Euro–currency market and developing countries. East Asia: Success and Crisis.

Suggested Readings:

1. Sodersten, B.O. (1991), International Economics, IInd Edition, Macmillan Press Ltd., London.
2. Salvatore, D.(1997), International Economics, New York, Macmillan, 1983.
3. Mithani, D.M. (2015), International Economics, Himalaya publishing House, Delhi.
4. Aggarwal, M.R. (2002), International Insitutions and Development in Developing Countries, Deep & Deep Publications, New Delhi.

Note: The latest edition of the books is recommended.

B.A./B.Sc. Eco. (Economics Honours)

OPT-5 Industrial Economics

Course Outcomes:

After passing this course students will be able to:

CO1: understand the some advance concepts and theories of industrial structure, conduct and performance

CO2: understand the different sources of industrial finance and their significance to evaluate firms performance.

CO3: understand the role and basic models of advertisement expenditure and profitability; and role of R&D expenditure and innovations on the working of firms.

CO4: understand the Industrial policy and development process India.

B.A./B.Sc. Eco. (Economics Honours)

OPT-5: Industrial Economics

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Nature and Scope of Industrial Economics: Framework and Problems; concepts and organisation of firm–ownership, control and objectives of the firm; optimum firm and conciliation of optima.
Market Structure: Meaning and Measurement; Sellers' concentration; Product differentiation; Entry condition and Economies of Scale; Market Structure, size and profitability.

UNIT–II

Market Conduct: Theories of industrial location – Weber and Sargent Florence; Factors affecting location. Product pricing – Theory and evidence; Investment expenditure: theory and methods of evaluating investment expenditure. Theories and evidence on mergers and diversification.
Market Performance: Growth of the firm and constraints; size, growth and profitability; Prodcutivity and Capacity utilization – Concept and measurement.

UNIT–III

Industrial Finance: Short vs. long term, and internal vs. external sources of firm's finance; firm's financial and capital structure; Financial ratios; debt-equity ratio; Role of commercial and industrial development banks; firms' finance and capital markets.
Advertising Expenditure: Nature and type of advertising; models of optimum advertising allocations in firms; market structure, advertising expenditure and profitability; Effects of firm's advertising.

UNIT–IV

Innovation and R&D: Concepts, importance and measurement; market structure and innovation and R&D; Diffusion of industrial technologies; transfer of technology from lab to industry and commercialization of innovations; international transfer of technology.
Industrial Sturcture and Economic development; process of industrialization – rationale, objectives, strategies and policies; Employment implications of industrialization; public policy and industrialization, industrial development and policy in India.
.

Suggested Readings:

1. Bains, J.S Industrial Organization, Cheltenham, U.K: "*An Elgar critical Writing Reader*", 1996.
2. Barthwal R.R.," *Industrial Economics: An Introductory Text"*, Wiley Eastern, New Delhi.
3. Dutt and Sundram (2016), *Indian economy,* S. Chand Publications, New Delhi.
4. Dhar P.K. (2016), *Indian Economy: Its Growth and Dimensions,* Kalyani Publications.

Note: The latest edition of the books is recommended..

B.A./B.Sc. Eco. (Economics Honours)
OPT-6 Economics of Agriculture

Course Outcomes:

After passing this course students will be able to:

CO1: understand the various theories of agriculture economics.

CO2: analyse trends in production, productivity in green revolution and post green revolution era.

CO3: understand the concept of Agricultural Finance& Agricultural credit.

B.A./B.Sc. Eco. (Economics Honours)

OPT –6: Economics Of Agriculture

Time: 3 Hours **Max. Marks: 100**

Theory: 80

CA: 20

Note: Instructions for the Paper–Setters:
Two questions, each carrying 16 marks, from each of Units I-IV (i.e. a total of eight Questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Economics of Agriculture: its nature & Scope; Need for separate study of AgriculturalEconomics; Role of agriculture in economic development. Nature and problems of agricultural development in developing economies.Inter-dependence of agriculture and industry, Resources in agriculture: Land, its characteristics,factors effecting productivity of land, Importance of land in agriculture; Labour and its
characteristics, efficiency of labour; capital and its characteristics.

UNIT–II

Transforming traditional agriculture– Schultz's approach, 'The poor but efficient hypothesis',Doctrine of zero value of labour in agriculture, Market approach v/s command approach, Lewis,Ranis and Fei models, Mellor's and Boserup's theories of agriculture development. Terms of trade between agricultureand industry. Economic development and declining importance of agriculture.

UNIT–III

Systems of farming, Land reforms: The theoretical issues, Farm size and productivity relationship, Risk and uncertainty in agriculture.
Agricultural price policy in India, New Agricultural Strategy and green revolution, Supply response in agriculture.

UNIT–IV

Problems of small farmers and agricultural labourers in India .Agricultural credit, Source ofcredit, Role of moneylenders, Problems of agricultural credit. Rural indebtedness.
Agricultural marketing, marketable surplus, surplus labour and its utilization. Agricultural Taxation.

Suggested Readings:

1. P.K. Gupta (2020), "*Agricultural Economics"*,Vrinda publications.
2. R.K .Lekhi & Joginder Singh (2018), "*Agricultural Economics (An Indian Persective*)" Kalyani Publishers
3. R.N. Soni & SangeetaMalhotra (2015), ":*Leading issues in Agricultural Economics".*

Note: The latest edition of the books is recommended..

B.A./B.Sc. Eco. (Economics Honours)

OPT-7 Agricultural Marketing

Course Outcomes:

After passing this course students will be able to:

CO1: Describe different marketing activities and services that take place as agricultural commodities go from the farm gate to the plate.

CO2: Comment on agricultural trade, policies, trade barriers, and national organizations and agreements.

CO3: Explain the importance of commodity varieties and qualities, and marketing place and time.

CO4: Differentiate among the different market intermediaries.

B.A./B.Sc. Eco. (Economics Honours)

OPT –7: Agricultural Marketing

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Definition and Scope of agricultural marketing, Marketed and marketable surplus, factorsaffecting marketable surplus, Size distribution of marketable surplus.
Nature of demand and supply of agricultural commodities, Process of agricultural marketing, Functions of marketing.

UNIT–II

Mobilisation of agricultural surplus, terms of trade between agriculture and industry, Problems to agricultural marketing, Measures to improve agricultural marketing.
Income & Price elasticities of agricultural commodities, cob–webb model, Movement of the surplus to the markets, Public Distribution System.

UNIT–III

Structure and functioning of agricultural markets, Legal framework of agricultural marketing, marketing margin, Financing of Agricultural Marketing. Marketing efficiency, need for an efficient system of agricultural marketing, measures to improve marketing efficiency, Criteria for judging efficiency of system of agricultural marketing, efficiency of agricultural marketing in India, measures to improve efficiency of agricultural marketing in India.

UNIT-IV

Foodgrains marketing system in Indian, Forward trading, State intervention in Food grains marketing. Role of different agencies (F.C.I. state Agencies, state Department), Buffer stocks.
Role and importance of market intelligence, Marketing of major–agricultural commodities in India (Foodgrain, commercial crops). MSP, Role of price policy, main elements of price policy.
Price expectations and price uncertainties, price stabilisation measures.

Suggested Readings:

1. Memoria, C.B.: Principles and Practice of Marketing in India.
2. Jain, S.C.: Principles and Practice of Agricultural Marketing in India.
3. Noore, J.R.Johl, S.S. &Khusro A.M.; Indian Foodgrains Marketing.
4. Piston, C.: Agricultural Economic– Policy.
5. Shephered, C.S.: Marketing Farm products–Economics Analysis.

Note: The latest edition of the books is recommended.

B.A./B.Sc. Eco. (Economics Honours)

OPT-8 Economics of Public Enterprises

Course Outcomes:

After passing this course students will be able to:

CO1: understand the role of public sector in economic development, objectives scope and growth of public sector in India.

CO2: compare the features, merits and demerits of different forms of public enterprises.

CO3: understand the management of public enterprises and personnel management in public enterprises.

B.A./B.Sc. Eco. (Economics Honours)

OPT –8: Economics of Public Enterprises

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Public Enterprises: Concepts, characteristics, difference between public and private enterprises.
Historical perspective of public sector in India.
Role in socio–economic development and relation of public enterprises.Multiple objectives ofpublicenterprises.Clash and complimentarity in objectives.

UNIT–II

Growth of Public Enterprises in India: Role of public sector financial institutions in the financingof public enterprises. Sources of funds of public enterprises.Debt and equity.
Problems of management of working capital.Management of inventory, credit and cashfinancing of working capital.

UNIT–III

Pricing in Public Sector: Basis and types of pricing policies, machinery of price fixation.Marginal cost and full cost pricing, Discriminatory pricing. Role of B.L.C. and P.
Working of Public Enterprises in India – Accountability of public enterprises.Control, audit,annual reports, consumer organization, public accountability.

UNIT–IV

Efficiency and Performance Evaluation: Profitability of public enterprises. Causes of poor financial performance of public sector in India. Performance budgeting.
Industrial relations and its importance.Industrial relations policy.Industrial disputes – causes,effects and machinery for settlement.Workers Participation in Management.Disinvestmentinpublic enterprises – Rationale and scope.

Suggested Readings:

1. Jagdishprakash , ”*Administration of Public Enterprises in India*”, Himalaya Publishing House .
2. Khera, S.S., “*Management and Control in Public Enterprises”*.
3. NarainLaxmi: ”*Principles and Practice of Public Enterprises Management”,* Ajanta Publications, New Delhi, 1981.

Note: The latest edition of the books is recommended..

B.A./B.Sc. Eco. (Economics Honours)

OPT-9 Econometrics

Course Outcomes:

After passing this course students will be able to:

CO1: understand the nature and methodology of econometrics.

CO2: understand the basic procedure of estimation of model and problems associated with it.

CO3: to perform tests of significance and estimate distributed lag models, production functions and some important macroeconomic functions.

B.A./B.Sc. Eco. (Economics Honours)

OPT–9: Introduction to Econometrics

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT–I

Basic Estimation Theory: Definition and scope of econometrics. Relationship of econometrics with economic statistics and mathematical statistics, Different stages involved in an econometric research programme, Specifications and estimation of an econometric model, Sources and assumptions of disturbance terms.

Evaluation of the parameter estimates. Random variables and probability distribution.Basic facts about estimation.Unbiasedness, efficiency and consistency.Maximum likelihood estimation.

UNIT–II

Testing of Hypothesis: Basic concept. Type I and II errors. Simple and composite hypotheses.Z, t, chi square and F tests.

Single Equation Models: Estimation and Problems: Simple linear regression model and the general linear model (in matrix form), testing the singnificance of individual coefficients and groups of coefficients through ANOVA–technique, Chow's test.

UNIT–III

Problems of heteroscedasticity, autocorrection and multicollinearity – their nature, consequences, detection and remedial measures.

Dummy variables: Concept and various uses. The dummy variable trap, Interpretation of slope and intercept Dummies.

UNIT–IV

Distributed Lagged models. Partial adjustment model, Koycktransformation.Statistical estimation of simple demand and supply functions.

Concept of production functions; statistical estimation of Cobb-Douglas and CES, production functions; some macroeconomic functions like consumption function, investment functions and the demand for money function.

Suggested Readings:

Suggested Readings:

1. Gujarati, D.N (2002), *Basic Econometrics* ,McGraw Hill, New Delhi.
2. Koutsoyiannis, A (2001), *Theory of Econometrics,* The Macmillan Press Ltd., London

Note: The latest edition of the books is recommended..

(ANNEXURE -G)

FACULTY OF ECONOMICS AND BUSINESS

SYLLABUS
OF
ECONOMICS
For

Bachelor of Commerce (Pass) Semester-I & II
(Under Continuous Evaluation System)
(12+3 System of Education)
Session: 2021-22

The Heritage Institution
KanyaMahaVidyalaya, Jalandhar
(Autonomous)

Scheme of Studies and Examination
Bachelor of Commerce (Pass) Semester –I &II
Session 2021-22

Semester I							
Course Code	Course Name	Course Type	Marks				Examination time (in Hours)
			Total	Ext.		CA	
				L	P		
BCRL-1176	Business Statistics	C	50	40	-	10	3

C- Compulsory

Semester II							
Course Code	Course Name	Course Type	Marks				Examination time (in Hours)
			Total	Ext.		CA	
				L	P		
BCRL-2175	Business Economics	C	50	40	-	10	3

C- Compulsory

Bachelor of Commerce (Pass) Semester – I

Session 2021-22

Course Code: BCRL–1176

Business Statistics

Course Outcomes:

After the successful completion of this course, students will be able to-

CO1: learn the basic statistical analysis techniques and their applications in commerce.

CO2: understand the some basic techniques of time series analysis and introductory applications of probability.

Bachelor of Commerce (Pass) Semester – I

Session 2021-22
Course Code: BCRL–1176
Business Statistics

Time: 3 Hours **Max. Marks: 50**

Theory: 40

CA: 10

Note: Instructions for the Paper–Setter:

Two questions, each carrying 8 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit-I

Definition, Meaning, Functions, Scope and Limitations of Statistics.

Measures of Central Tendency: Types of averages–Arithmetic Mean (Simple and Weighted), Median and Mode.

Unit-II

Measures of Dispersion: Range, Quartile Deviation, Mean Deviation, Standard Deviation and Coefficient of Variation.

Simple Correlation and Regression: Meaning, Types, Karl Pearsons& Rank Correlation (Excluding grouped data), Probable Error and Standard Error.

Unit-III

Index Numbers: Meaning and Importance, Methods of construction of Index Numbers: Weighted and Unweighted; Simple Aggregative Method, Simple Average of Price Relative Method, Weighted Index Method: Laspeyre's Method, Pasche's Method and Fisher's. Testing for Ideal method including Time and Factor Reversal tests. Splicing.

Unit-IV

Time Series Analysis: Components, Estimation of Trends (Graphical method, Semi Average Method, Moving Averages Method and Method of Least Squares for linear path).

Probability: Conceptual Meaning and Definition of Probability, Theorems of Probability–Addition and Multiplication theorem of Probability and Concept of Conditional Probability (Simple Applications)

Suggested Readings:

1. Chandan, J.S.(1998) *Statistics for Business and Economics*, Ist Edition, Vikas Publishing House Pvt. Ltd.
2. Gupta,S.C.(2018) *Fundamentals of Statistics,* Himalayan Publishing House, Delhi.
3. Gupta ,S. P. (2011)*Statistical Methods,*S. Chand Publications, New Delhi.
4. Siegel, Andrew F.(2011) *Practical Business Statistics ,* International Edition, McGraw Hill Irwin.

Note: The latest edition of the books is recommended..

Bachelor of Commerce (Pass &Hons.) Semester – II
Session 2021-22
Course Code: BCRL–2175
Business Economics

Course Outcomes:

After the successful completion of this course, students will be able to –

CO1: students will be able to have an in-depth understanding of the preliminary concepts about consumer behavior, costs and revenue curves, production behavior and market structure.
CO2: understand the concept of national income and methods of its estimation.

Bachelor of Commerce (Pass and Hons.) Semester – II

Session 2021-22

Course Code: BCRL–2175

Business Economics

Time: 3 Hours **Max. Marks: 50**

Theory: 40

CA: 10

Note: Instructions for the Paper–Setter:

Two questions, each carrying 8 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit-I

Theory of Demand: Meaning of demand and its types, law of demand, price elasticity of demand and its measurement.

Consumer's Behaviour: Utility approach: Brief outline of law of diminishing marginal utility and law of equi–marginal utility.

Indifference Curve Approach: Meaning, properties, price, income and substitution effect, Revealed preference approach.

Unit-II

Theory of Production: Law of variable proportions and law of returns to scale, traditional and modern theory of costs (short run and long run).

Revenue: Average revenue, marginal revenue and total revenue, relationship between average revenue and marginal revenue and elasticity of demand.

Unit-III

Perfect Competition: Meaning, features, price and output determination of firm and industry.

Monopoly: Meaning, features, price and output determination and price discrimination.

Monopolistic Competition: Meaning, features, price and output determination.

Unit-IV

National Income: Definition and Importance of National Income, Gross and Net Domestic Product, Personal Income and Disposable Income; Measurement of National Income: Income, Output and Expenditure Method, Problems in measurement of National Income particularly in underdeveloped countries.

Consumption: Meaning, determinants (subjective and objective) and importance, Keynes' Psychological law of consumption.

Suggested Readings:

1.Dwivedi,D.N.(2009) *Managerial Economics*, 7th Edition, Vikas Publication.

Note: The latest edition of the books is recommended.

(ANNEXURE -H)

FACULTY OF ECONOMICS AND BUSINESS

SYLLABUS
OF
ECONOMICS
For

Bachelor of Business Administration Semester–I, II &III

(Under Continuous Evaluation System)

(12+3 System of Education)

Session: 2021-22

The Heritage Institution
Kanya MahaVidyalaya, Jalandhar
(Autonomous)

Scheme of Studies and Examination
Bachelor of Business Administration Semester – I
Session 2021-22

Semester I								
Course Code	**Course Name**	**Course Type**	**Marks**					**Examination time (in Hours)**
			Total	**Ext.**		**CA**		
				L	**P**			
BBRL-1175	Managerial Economics-I	C	50	40	-	10		3

C- Compulsory

Semester II							
Course Code	**Course Name**	**Course Type**	**Marks**				**Examination time (in Hours)**
			Total	**Ext.**		**CA**	
				L	**P**		
BBRL-2175	Managerial Economics-II	C	50	40	-	10	3

C- Compulsory

Semester III							
Course Code	**Course Name**	**Course Type**	**Marks**				**Examination time (in Hours)**
			Total	**Ext.**		**CA**	
				L	**P**		
BBRL-3173	Statistics For Business	C	50	40	-	10	3

C- Compulsory

Bachelor of Business Administration Semester – I
Session 2021-22
Course Code: BBRL-1175
Managerial Economics- I

Course Outcomes:

After passing this course, students will be able to:

CO: After passing this course, students will be able to have an in-depth understanding of the preliminary concepts about consumer behavior, costs and revenue curves, production behavior and market structure.

Bachelor of Business Administration Semester – I
Session 2021-22
Course Code: BBRL-1175
Managerial Economics- I

Time: 3 Hours **M. Marks: 50**
Theory: 40
CA: 10

Note: Instructions for the Paper–Setter:

Two questions, each carrying 8 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I

Theory of Demand: Meaning of demand and its types, Law of demand; Price Elasticity of demand: degrees and its measurement.
Consumer's Behaviour: Utility approach (Brief outline of law of diminishing marginal utility and law of equi-marginal utility).

Unit – II

Indifference Curve Approach: Consumer equilibrium, Income, Price and Substitution effect.
Revealed Preference Approach.
Theory of Supply: Concept and law of supply, factors affecting supply.

Unit – III

Theory of Production: Law of variable proportions, total, average and marginal physical product, Law of Returns to scale, Economies and diseconomies of scale.
Theory of Cost: Short and Long period costs, Concept of total cost, Marginal and Average cost, Theory of Cost in Short-run and Long-run.
Concept of revenue: Total Revenue, Average Revenue, Relationship between Average and Marginal Revenue and Price Elasticity of Demand.

Unit – IV

Pricing Under Various Market Conditions: Perfect Competition - Equilibrium of Firm and Industry under Perfect Competition; Monopoly - Price determination under Monopoly; Monopolistic Competition - Price and Output determination under Monopolistic Competition.

Suggested Readings:

1. Ahuja, H.L.(2018),'*Advanced Economics Theory: Micro Economics analysis'*, S. Chand Publishing.
2. Dwivedi, D.N. (2018), '*Microeconomics: Theory and Applications'*, Pearson Education, New Delhi.
3. Koutsoyiannis, A.(2015),'*Modern Microeconomics',* Macmillan Press, London.
4. Sen, A. (2007), '*Microeconomics:Theory and Applications'*, Oxford University Press, New Delhi.

Note: The latest edition of the books is recommended..

Bachelor of Business Administration (Semester – II)
Session 2021-22
Course Code: BBRL-2175
Managerial Economics- II

Course Outcomes:

After passing this course, students will be able to:

CO1: understand the Consumption and investment behaviour of an economy and factor affecting consumption and investment decisions.

CO2: understand the basics of national income accounting and theoretical details of classical and Keynes model of employment.

CO3: understand the problem of inflation, its causes, effects and solutions in an economy.

Bachelor of Business Administration (Semester – II)
Session 2021-22
Course Code: BBRL-2175
Managerial Economics- II

Time: 3 Hours **M. Marks: 50**
Theory: 40
CA: 10

Note: Instructions for the Paper–Setter:

Two questions, each carrying 8 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit-I

Macroeconomics: Meaning, nature and scope. Basic concepts: Stock and flow variables, static, comparative static and dynamic analysis.
National Income: Concept and Importance of National Income, Gross and Net National Product, Gross and Net Domestic Product, Personal Income and Disposable Income.
Measurement of National Income: Income, Output and Expenditure Method, Problems in Measurement of National Income.

Unit-II

Consumption Function: Meaning and Nature, Determinants and Measures to raise Propensity to Consume, Keynes Psychological Law of Consumption- Meaning, Properties and Implications.

Unit-III

Investment: Classical Theory of Investment, Keynesian Theory of Investment, Accelerator Theory of Investment.
Keynesian Economics: Theory of Money, Saving and Investment Function.
Multiplier: Static and Dynamic Analysis; Balanced Budget Multiplier, Employment Multiplier.

Unit-IV

Business Cycle: Keynes's Theory of Trade Cycle, Kaldor's Theory of Trade Cycle, Hicks' Theory of Trade Cycle, Samuelson's Theory of Trade Cycle
Inflation: Meaning, Types, Theories, Causes, effects and Context.

Suggested Readings:

1. Dwivedi D.N.(2018), *Macroeconomics: Theory and Policy*, Tata McGraw-Hill.
2. Jhingan M. L.(2014), *Macroeconomic Theory*, Varinda Publications Delhi.

Note: The latest edition of the books is recommended.

Bachelor of Business Administration Semester – III
Session 2021-22
Course Code: BBRL-3173
Statistics for Business

Course Outcomes:

After passing this course students will be able to:

CO1: understand the techniques of presentation, analysis of data, basics of time series data and probability.

CO2: understand basics of matrices and determinants.

Bachelor of Business Administration Semester – III
Session 2021-22
Course Code: BBRL-3173
Statistics for Business

Time: 3 Hours **M. Marks: 50**

Theory: 40

CA: 10

Note: Instructions for the Paper–Setter:

Two questions, each carrying 8 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT-1

Matrix Algebra: Types of matrices, basic operations of matrices, determinant of a matrix and its properties, rank and inverse of a matrix, solution of simultaneous linear equations – Cramer's rule and matrix inversion method, application of matrices.
Introduction and Methods of Presentation of Statistical Information, Collection and Presentation of Data. Frequency distributions. Concept of sampling and sampling Designs.

UNIT-II

Measures of Central Tendency: Mean, Median, Mode. Measures of dispersion: Range, quartile deviation, Average deviation and Standard deviation.

UNIT-III

Simple Correlation and Regression Analysis: Assumptions, Karl Pearsons product moment and Spearmen's rank correlation method, least squares technique, properties of correlation and regression coefficients. Time Series Analysis: Trend analysis using moving average and regression analysis, seasonal, cyclic and regular fluctuations.

UNIT-IV

Index number construction of unweighted and weighted index numbers, quantity Index.
Elementary Probability Theory: Deterministic and non–deterministic experiments, different types of events, a priori and empirical definition of probability, Conditional probability, laws of addition and multiplication of probability, Properties of binomial, Poisson and normal distributions.

Suggested Readings:

1. Gupta, S.C.(2018), *Fundamentals of Statistic*s, Himalaya Publishing House, 7th Edition, Delhi.
2. Gupta, S.P. (2014), *Statistical Methods*, Sultan Chand& Sons, 43rd Edition , Delhi.

Note: The latest edition of the books is recommended..

(ANNEXURE -I)

FACULTY OF ECONOMICS AND BUSINESS

SYLLABUS

OF

ECONOMICS

For

Bachelor of Commerce (Honours) Semester-I & II
(Under Continuous Evaluation System)
(12+3 System of Education)
Session: 2021-22

The Heritage Institution

KanyaMahaVidyalaya, Jalandhar

(Autonomous)

Scheme of Studies and Examination
Bachelor of Commerce (Honours) Semester-I & II
Session 2021-22

Semester I							
Course Code	**Course Name**	**Course Type**	**Marks**				**Examination time (in Hours)**
			Total	**Ext.**		**CA**	
				L	**P**		
BCOL-1174	Microeconomics	C	100	80	_	20	3
BCOL-1173	Descriptive Statistics for Business	C	100	80	_	20	3

C-Compulsory

Semester II							
Course Code	**Course Name**	**Course Type**	**Marks**				**Examination time (in Hours)**
			Total	**Ext.**		**CA**	
				L	**P**		
BCOL-2174	Macroeconomics	C	100	80	_	20	3
BCOL-2173	Inferential Statistics for Business	C	100	80	_	20	3

C-Compulsory

Bachelor of Commerce (Honours) Semester-I

Session 2021-22

Course Code: BCOL-1174

Microeconomics

Course Outcomes:

Upon successful completion of this course, students will be able to:

CO1: students will be able to have an in-depth understanding of the preliminary concepts about consumer behavior, costs and revenue curves, production behavior and market structure.

CO2: have some idea of managerial objectives.

Bachelor of Commerce (Honours) Semester-I

Session 2021-22

Course Code: BCOL-1174

Microeconomics

Time: 3 Hours **Max. Marks: 100**

Theory: 80

CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit-I

Introduction to Economics: Nature and Scope of Economics, Micro and Macro Economics. Definition, Nature and Scope of Business Economics. Demand and Supply Analysis: Meaning of Demand, Types of Demand.

Law of Demand: Demand Schedule and Demand Curve, Shift in Demand Curve, Exceptions to the Law of Demand. **Supply:** Determinants of Supply, Supply Function, Law of Supply, Supply Schedule and Supply Curve. Market Equilibrium: Excess Supply, Excess Demand, Price Adjustment Mechanism, Changes in Equilibrium.

Elasticity of Demand: Concept, Price, Income and Cross Elasticity, Measurement of Price Elasticity of Demand, Relationship Between Average Revenue, Marginal Revenue and Elasticity of Demand, Determinants of Elasticity of Demand, Importance of Elasticity of Demand.

Unit-II

Consumer Preferences and Choice: Utility Analysis: Brief Outline of Law of Diminishing Marginal Utility and Law of Equi- Marginal Utility. Indifference Curve Analysis: Assumption, Properties, Special Types of Indifference Curves, Consumer Equilibrium, Price, Income and Substitution Effects.

Production Function: Concept of Production Function, Short-run Laws of Production, Long-term Laws of Production: Isoquants, Producer's Equilibrium. Expansion Path, Returns to Factor and Returns to scale, Optimal Combination of Inputs, Economies and Diseconomies of Scale.

Theory of Costs: Types of Costs, Short Run and Long Run, Traditional and Modern Approaches.

Unit-III

Market Structure and The Firm's Objectives: Market Structure and Degree of Competition, Market Structure and Pricing Decisions: the Firm and The Industry, Objectives of Business Firms.

Perfect Competition: Characteristics, Price determination under perfect competition, Equilibrium of Firm and Industry in the Short-run and Long-run.

Monopoly: Characteristics, Equilibrium of the Monopoly Firm in Short run and Long run;

Price Discrimination and Its Types, Price and Output Determination under Discriminating Monopoly.

Unit-IV

Monopolistic Competition: Meaning and Characteristics, Price and Output Determination Under Monopolistic Competition in Short-run and Long-run, Selling costs: Equilibrium of Firm with Respect to Selling Cost, Comparison with Perfect Competition. Brief introduction to Concept of Excess Capacity.

Oligopoly:Meaning and Characteristics, Kinked Demand curve.

Managerial Theories: Profit maximization and Sales Maximization.

Suggested Readings:

1. Dwivedi, D.N.(2018)*" Microeconomics -Theory and Applications",* Pearson Education Pvt. Ltd.
2. Ahuja, H.L.(2014)" *Advanced Economic Theory"*, S. Chand, publications,NewDelhi.
3. Koutsoyiannis A (2015)"*Modern Micro Economics",* 2nd edition, MacMillan House, New Delhi.
4.Stonier &Hague,A,(2003)"*Text book of Economics Theory*", 9th ed., ELBS, London.

Note: The latest edition of the books is recommended.

Bachelor of Commerce (Honours) Semester-I
Session 2021-22
Course Code: BCOL-1173
Descriptive Statistics for Business

Course outcome:

Upon successful completion of this course, students will be able to:

CO1: understand the concept of data & variables and its applications.

CO2: learn the techniques of presentation and analysis of data.

CO 3: comprehend the measures of distribution and relationship.

Bachelor of Commerce (Honours) Semester-I
Session 2021-22
Course Code: BCOL-1173
Descriptive Statistics for Business

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit-I

Data and Statistics: Types of Data: Cross-Sectional, Time Series Data, Panel Data, Pool Data, Sources of Data, Applications in Economic and Business
Some Basic Statistical Ideas: Description and Inference, The Population and the Sample, Variables and Cases, Types of Variables: Numerical and Categorical Variables, Discrete and Continuous Numerical Variables, Sampling Error and Bias.

Unit-II

Describing Data: Tables and Graphs (Theory and Practical through Excel)
Single Variable: Frequency Distributions- Ordinary Frequency Distributions, Relative Frequency Distributions, Cumulative Frequency Distributions; Graphs: Bar Charts and Pie Charts, Histograms and Ogives
Relationships: Categorical Explanatory Variables, Frequency Polygons, Frequency Distributions Graphs. Continuous Explanatory Variables: Frequency Distributions, Relative Frequency and Percent Frequency Distributions, Scatter diagrams, Data Presentation Errors.

Unit-III

Describing Data: Summary Statistics (Theory and Practical through Excel).
Measures of a Single Numeric Variable: Measures of Central Tendency: Arithmetic Mean, Weighted Mean, Geometric Mean, Percentiles and Quartiles, Median, Mode. Measures of Variation: Range and Inter-quartile Range, Mean Deviation, Variance, Standard Deviation and Coefficient of Variation.

Unit-IV

Measures of a Relationship: Measures of Distribution: Shape, Relative Location with Skewness and Kurtosis. Detecting Outliers and Empirical Rule. 'z' scores. Covariance and Correlation, Simple Regression Analysis (Grouped and Ungrouped data). Chebychev'sTheorem.

Suggested Readings:

1. Gupta S. P. (2011), *Statistical Methods,* S. Chand Publications, New Delhi.
2. Leekley R.M. (2010), Applied Statistics for Business and Economics, CRC Press, Taylor & Francis Group 6000 Broken Sound Parkway NW, Suite 300.

Note: The latest edition of the books is recommended.

Bachelor of Commerce (HONOURS) SEM-II
Session 2021-22
BCOL-2174
Macroeconomics

Course Outcomes:

Upon successful completion of this course, students will be able to:

CO1: learn the concepts and measurement of National Income and methods of measuring National Income.

CO2: learn Concept of demand for and supply of money.

CO3: learn concept of Inflation and measures to control inflation.

Bachelor of Commerce (HONOURS) SEM-II
Session 2021-22
BCOL-2174
Macroeconomics

Time: 3 Hours **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit-I

Macroeconomics – scope and basic concepts.
National Income Accounting - Concepts and measurement of GDP, GNP, NNP, NI and DPI, Methods of measuring National Income, Problems in measuring National Income ,Circular flow of income - Two sector, three sector and four model. Real and Nominal GDP–Implicit deflator.

Unit-II

Aggregate Demand and Aggregate Supply: Classical and Keynesian approach to AD-AS approach, Determination of aggregate demand, Shifts in aggregate demand, Aggregate supply in the short and long run. Economy in the short run IS–LM framework.
Theory of Macro Economic Equilibrium: Simple Keynesian Model, Consumption, saving and Investment functions, Investment and Government expenditure multipliers

Unit-III

Money: Concept of demand for and supply of money, Quantity theory of money and Keynesian theory of demand for money, Measures of money supply – High powered money – Money multiplier.
Inflation: Concept of Inflation – Demand-pull and cost-push theories of inflation –Measures to control inflation.

Unit-IV

Monetary policy: Role of monetary policy, Instruments of monetary policy, Latest monetary policy of RBI.
Fiscal policy: Role of fiscal policy, Instruments of fiscal policy Latest fiscal policy of RBI.
Balance of payment: Meaning, its types and Structure, Balance of payment and Balance of trade, Factor responsible for disequilibrium in BOP, Methods to correct BOP.

Suggested Readings:

1. Dwivedi ,D.N. (2018) *Macroeconomics: Theory and Policy*, Tata McGraw-Hill.
2. Jhingan, M. L. (2014) *Macroeconomic Theory*, Varinda Publications ,Delhi.

Note: The latest edition of the books is recommended..

Bachelor of Commerce (HONOURS) SEM-II
Session 2021-22
Course Code: BCOL-2173

Inferential Statistics for Business

Course Outcomes:

After the successful completion of this course, students will be able to –

CO1: understand the concept of hypothesis testing and its significance

CO2: learn the applications of parametric and non-parametric tests

Bachelor of Commerce (HONOURS) SEM-II
Session 2021-22
Course Code: BCOL-2173
Inferential Statistics for Business

Time: 3 Hrs **Max. Marks: 100**
Theory: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit-I

Population-Sample, Central Limit Theorem and Confidence Interval

Confidence Intervals for One Population Mean:

- Estimating a Population Mean Confidence Intervals for One Population Mean When σ Is Known
- Confidence Intervals for One Population Mean When σ Is Unknown

Hypothesis Tests for One Population Mean

- The Nature of Hypothesis Testing
- Critical-Value Approach to Hypothesis Testing
- P-Value Approach to Hypothesis Testing
- Hypothesis Tests for One Population Mean When σ Is Known
- Hypothesis Tests for One Population Mean When σ Is Unknown
- The Wilcoxon Signed-Rank Test
- Type II Error Probabilities; Power

Unit-II

Inferences for Two Population Means:

The Sampling Distribution of the Difference between Two Sample Means for Independent Samples:

- Inferences for Two Population Means, Using Independent Samples: Standard Deviations Assumed Equal
- Inferences for Two Population Means, Using Independent Samples: Standard Deviations Not Assumed Equal
- The Mann–Whitney Test
- Inferences for Two Population Means, Using Paired Samples
- The Paired Wilcoxon Test

Unit-III

Inferences for Population Standard Deviations:

- Inferences for One Population Standard Deviation
- Inferences for Two Population Standard Deviations, Using Independent Samples

Inferences for Population Proportions:

- Confidence Intervals for One Population Proportion
- Hypothesis Tests for One Population Proportion

1. Inferences for Two Population Proportions

Unit-IV

Chi-Square Procedures

- The Chi-Square Distribution
- Chi-Square Goodness-of-Fit Test
- Contingency Tables; Association
- Chi-Square Independence Test
- Chi-Square Homogeneity Test

Software

1. Jamovi http://cdar.gndu.ac.in/downloadOSSoftware.aspx

2. Gretl http://cdar.gndu.ac.in/downloadOSSoftware.aspx

Suggessted Books:

1. Sahu P. K., Pal, S. R., & Das, A. K. (2015). Estimation and inferential statistics .Springer, India.
2. Lowry R. (2014). Concepts and applications of inferential statistics. Available at http://vassarstats.net/textbook/
3. Bernstein R., & Bernstein, S. (1999). Schaum's outline of elements of statistics II: Inferential Statistics, McGraw Hill Professional.

Note: The latest edition of the books is recommended.

(ANNEXURE -J)

FACULTY OF ECONOMICS AND BUSINESS

SYLLABUS

OF

ECONOMICS

For

Bachelor of Commerce (Financial Services) Semester-I & II
(Under Continuous Evaluation System)
(12+3 System of Education)
Session: 2021-22

The Heritage Institution

KanyaMahaVidyalaya, Jalandhar

(Autonomous)

Scheme of Studies and Examination
Bachelor of Commerce (Financial Services) Semester-I
Session 2021-22

Semester I							
Course Code	**Course Name**	**Course Type**	**Marks**				**Examination time (in Hours)**
			Total	**Ext.**		**CA**	
				L	**P**		
BCFL-1455	Quantitative Techniques for Business-I	C	50	40	-	10	3

C- Compulsory

Semester II							
Course Code	**Course Name**	**Course Type**	**Marks**				**Examination time (in Hours)**
			Total	**Ext.**		**CA**	
				L	**P**		
BCFL-2453	Quantitative Techniques for Business-II	C	50	40	-	10	3

C- Compulsory

Bachelor of Commerce (Financial Services) Semester-I
Session 2021-22
Course Code: BCFL-1455
Quantitative Techniques for Business-I

Course Outcomes:

After passing this course students will be able to:

CO1: learn the basic statistical analysis techniques and their applications in business.

CO2: understand the some basic techniques of time series analysis

Bachelor of Commerce (Financial Services) Semester-I
Session 2021-22
Course Code: BCFL-1455
Quantitative Techniques for Business-I

Time: 3 Hours | **M. Marks: 50**
Theory: 40
CA: 10

Note: Instructions for the Paper–Setter:

Two questions, each carrying 8 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit-I

Measures of Central Tendency: - Mean, Median, Mode, Geometric Mean and Harmonic Mean

Unit-II

Measures of Dispersion: - Range, Quartile Deviation, Mean Deviation and Standard Deviation; Skewness and Kurtosis

Unit-III

Index Numbers: - Meaning and importance, Methods of Construction of Index Numbers: weighted and unweighted, fixed base and chain base index numbers ; Time Series Analysis:- Trend cycles, seasonal and irregular components, estimation of trend(Graphical Method, Semi Average method, method of moving averages and method of least square)(fitting straight lines only)

Unit-IV

Simple and Compound Interest, Discounting and factoring techniques

Suggested Readings:

1. Gupta S. P. (2011), '*Statistical Methods',* S. Chand Publications, New Delhi.
2. Chandan, J.S.(1998), '*Statistics for Business and Economics*', Ist Edition, Vikas Publishing House Pvt. Ltd.

Note: The latest edition of the books is recommended.

Bachelor of Commerce (Financial Services) (Semester-II)
Session 2021-22
Course Code: BCFL-2453
Quantitative Techniques for Business-II

Course Outcomes:

CO1: To learn the basic methods of analysing relationship and interpolation. of data identify the population of interest, parameter, sample and statistics from a study

CO2: to learn basics of sampling, probability and theoretical distribution identify whether a probability sampling method or a non probability sampling method.

Bachelor of Commerce (Financial Services) (Semester-II)
Session 2021-22
Course Code: BCFL-2453
Quantitative Techniques for Business-II

Time: 3 Hours **M. Marks: 50**
Theory: 40
CA: 10

Note: Instructions for the Paper–Setter:

Two questions, each carrying 8 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit-I

Correlation Analysis: Simple Correlation between two variables (grouped and ungrouped data), Rank Correlation, Concurrent Correlation, Partial and multiple Correlation.

Unit-II

Simple Regression Analysis:- Grouped and Ungrouped data. Interpolation and Extrapolation with equal and unequal class intervals (Binomial, Newton's and Lagrange's formula)

Unit-III

Probability Theory: Addition and Multiplication theorems, Probability Distribution, Binomial, Poisson and normal (Fitting of these distributions).

Unit-IV

Sampling: Various Concepts- Population, Sampling Units, Complete enumeration sample survey, Features of a good sample, Sampling Techniques.

Suggested Readings:

1. Gupta, SC(2018), *Fundamentals of Statistic*, Himalaya Publishing House, 7th Edition, Delhi
2. Gupta, SP (2014), *Statistical Methods*, Sultan Chand& Sons, 43rd Edition , Delhi

Note: The latest edition of the books is recommended.

(ANNEXURE -K)

FACULTY OF ECONOMICS AND BUSINESS

SYLLABUS
OF
ECONOMICS
For
Master of Commerce SEMESTER-I

(Under Continuous Evaluation System)

Session: 2021-22

The Heritage Institution
Kanya Maha Vidyalaya, Jalandhar
(Autonomous)

Scheme of Studies and Examination

Master of Commerce (Semester-I)

Session 2021-22

Semester I									
Course Code	**Course Type**	**Course Title**	**Hours/ Week**	**Marks**					
				Total	**Ext.**		**CA**	**Examination Time (In Hours)**
					L	**P**		
MCML-1171	C	Managerial Economics	4	100	80	-	20	3

C- Compulsory

Master of Commerce SEMESTER-I
Session 2021-22
Course Code: MCML-1171
Managerial Economics

Course Outcomes:

After passing this course, students will be able to:

CO1: learn the effective use of micro and macroeconomic tools and concepts in managerial decision making.

CO2: have in-depth knowledge of theories of consumer behavior, cost and market structure, production decisions.

CO3: learn preliminary concepts of macroeconomics.

Master of Commerce SEMESTER-I

Session 2021-22

Course Code: MCML-1171

Managerial Economics

Max. Marks: 100
Theory:80
CA: 20

Time: 3 hours

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit-I

Managerial Economics: Meaning, Nature, Scope and Concepts.

Law of Demand: Meaning, Determinants, Exceptions, Kinds of Demand, Change in Demand and Importance of Law of Demand.

Elasticity of Demand: Meaning, Types and Degrees of Elasticity of Demand, Methods of measuring Price Elasticity of Demand, Factors Determining Elasticity of Demand, Importance.

Unit-II

Marginal Analysis: Law of Diminishing Marginal Utility, Law of Equi-marginal Utility

Indifference Curve Analysis: Meaning, Assumptions, Properties, Consumer Equilibrium, Importance.

Production Function: Meaning, Law of Variable Proportion and Law of Returns to Scale Economies and Diseconomies of Scale.

Unit-III

Theories of Costs: Types of Costs, Traditional Theory: Long Run & Short Run, Modern Theory: Long Run & Short Run.

Managerial Theories: Profit maximization and Sales Maximization.

Market Structure: Meaning, Assumptions and Equilibrium of Perfect Competition, Monopoly, Monopolistic Competition.

Oligopoly: Sweezy Model.

Unit-IV

National Income: Conceptual Framework, Measures of National Income, Methods of Measurement of national income and Limitations/problems in measurement of national income, importance of measurement of national income

Consumption Function: Meaning, and Nature, Determinants and Measures to Raise Propensity to Consume, Keynes Psychological Law of Consumption – Meaning, Properties and Implications.

Inflation: Meaning, Types, Theories of Inflation, effects and control of Inflation.

Suggested Readings:

1. Adhikari, M., '*Economic Analysis for Business Decisions'.*
2. Ahuja, H. L. (2009), 'Modern Micro Economics', , Sultan Chand and Co.
3. Dr. Kumar, Raj &Prof. Gupta, Kuldeep, *'Managerial Economics'.*
4. Koutsyannis A. *(1977)*, '*Modern Microeconomics', 2nd Edition,* Macmillan Press, London.
5. Mithani, D.M*(2009),'Managerial Economics',5th Edition* Himalaya Publishing House, New Delhi.

Note: The latest edition of the books is recommended..

(ANNEXURE -L)

FACULTY OF SCIENCES

SYLLABUS

OF

ECONOMICS

For

Bachelor of Science (Home Science) (Semester: III & IV)
(Under Continuous Evaluation System)
(12+3 System of Education)

Session: 2021–22

The Heritage Institution
Kanya Maha Vidyalaya, Jalandhar
(Autonomous)

Scheme of Studies and Examination
Bachelor of Science (Home Science)
Session 2021-22

Semester III							
Course Code	**Course Name**	**Course Type**	**Marks**				**Examination time (in Hours)**
			Total	**Ext.**		**CA**	
				L	**P**		
BHSL-3172	Basic Concepts of Economics	C	50	40	-	10	3

C- compulsory

Semester IV							
Course Code	**Course Name**	**Course Type**	**Marks**				**Examination time (in Hours)**
			Total	**Ext.**		**CA**	
				L	**P**		
BHSL-4172	Consumer Economics	C	50	40	-	10	3

C- compulsory

B.Sc. (Home Science): Sem-III
Session 2021-22
Course Code: BHSL-3172
Basic Concepts of Economics

Course Outcomes:

After passing this course students will be able to:

CO1: To understand some basic economic concepts

CO2: To understand the basic concepts of banking & different saving schemes

CO3: To give guidance regarding credit facilities.

.**CO4:**To understand basic structure of markets in the economy.

B.Sc. Home Science (Semester-III)
Session 2021-22
Course Code: BHSL-3172
Basic Concepts of Economics

Time: 3 Hours **Max Marks: 50**
Theory: 40
CA: 10

Note: Instructions for the Paper–Setter:
Two questions, each carrying 8 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT-I

Basic Economic concept: Goods, wealth, economic and non economic activities, utility, Value and price, Basic concepts in consumer economics.
Human wants and needs, Difference between desire, want, and need, hierarchy of need, characteristics of needs, classification of wants, forces influencing wants.

UNIT-II

Production & Consumption: definition, features, significance laws and their importance. Basic Knowledge of market: definition, features and types of market, E- marketing.

UNIT-III

Consumer Credit: Definition and significance of credit, Need and basis of credit, Sources of consumer credit, Legal credit instruments , Points to be considered while borrowing, Merits & demerits of credit.

UNIT-IV

Brief Knowledge of banking, insurance schemes, saving & investment.
Banking: Types of account, how to open an account, How to deposit and withdraw money by cheque & cash; Internet banking
Insurance: General and life insurance policies terms and conditions & advantages. Savings-Bank saving scheme, Post Office Saving Schemes, Shares & debentures (only introduction)
Taxation: Types of Taxes & how to calculate income tax & file income tax return.

Recommended Books:

1) Kaur, S., Lekhi, R.K. and Singh, J. (), "Consumer Economics" Kalyani Publisher.
2) Gupta, B.D. (1973), "Consumption Pattern in India", Tata Mcgraw Hill.
3) Fitzsimmons, C. (1961), "Consumer Buying for better living", John willey & sons Inc.
4) Sehiffman, L. G. (1990), "Consumer Behavior", 4th Edition, Prentice hall Publications.

Note: The latest edition of the books is recommended.

Bachelor of Science (Home Science) (Sem.-IV)
Session 2021-22
Course Code: BHSL-4172
Consumer Economics

Course Outcomes:

After studying this course, students will be able:

CO1: To train the students about their rights and responsibilities as consumer

CO2: To aware the students about consumer protection right.

CO3: To impart knowledge about consumer buying, grading and standardization, advertising media role and effect.

Bachelor of Science (Home Science): Semester-IV
Session 2021-22
Course Code: BHSL-4172
Consumer Economics

Time: 3 Hours **M. Marks: 50**
Theory: 40
CA: 10

Note: Instructions for the Paper–Setter:
Two questions, each carrying 8 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

UNIT-I

Consumer education and Protection - Need for consumer education, Process for consumer protection.
Consumer legislation in India with special reference to consumer protection Act 1986.
Consumerism - scope, utility and measures for strengthening consumer movement.

UNIT-II

Consumer rights and guidance for wise purchase - Consumer rights & responsibilities.
Fraud and business malpractices.

UNIT-III

Grading, standardization and packaging, Definition and advantages, difference between grading and standardization.
Labelling - types and Labelling as guide to buying.
Branding and its advantages. Packaging-its functions, advantages and problems with packaging.

UNIT-IV

Advertisement: Objectives, Reasons, advantages and mode of advertising.
Entrepreneur and salesmanship: Meaning, Function & Qualities of an entrepreneur, Meaning, advantage and Qualities of an efficient salesman.

Recommended Books:
1) Kaur, S., Lekhi, R.K. and Singh, J. (), “Consumer Economics” Kalyani Publishers.
2) Gupta, B.D. (1973), “Consumption Pattern in India”, Tata Mcgraw Hill.
3) Fitzsimmons, C. (1961), “Consumer Buying for better living”, John willey & sons Inc.
4) Sehiffman, L. G. (1990), “Consumer Behavior”, 4th Edition, Prentice hall Publications.
Note: The latest edition of the books is recommended.

(ANNEXURE M)

Faculty of Sciences

Syllabus for

B.Sc. (Hons.)Mathematics

(Under Continuous Evaluation System)

(SEMESTER: I)

Session – (2021-22)

Kanya Maha Vidyalaya, Jalandhar
(Autonomous)
The Heritage Institution

Scheme of Studies and Examination

B.Sc. (Hons.) Mathematics Semester–I

Session 2021-22

Semester I								
Course Code	**Course Type**	**Course Title**	**Hours/ Week**	**Marks**				
				Total	**Ext.**		**CA**	**Examination Time (In Hours)**
					L	**P**		
BOML-1175	C	Microeconomics-I	4	100	80	-	20	3

Bachelor of Science (Honours) Mathematics
Semester–I
Session 2021-22
Course Code: BOML-1175
Microeconomics-I

Course Outcomes:
After passing this course students will be able to:

CO: After passing this course, students will be able to have an in-depth understanding of the preliminary concepts about consumer behavior, costs and revenue curves, production behavior and market structure.

Bachelor of Science (Honours) Mathematics
Semester–I
Session 2021-22
Course Code: BOML-1175
Microeconomics-I

Time: 3 Hours **Max. Marks: 100**
Theory:80
CA:20

Note: Instructions for the Paper–Setter:
Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit I

Basic problems of an economy. Demand and Supply functions – an introductory view of price formation, Role of time element in price formation.
Price, income and cross elasticities of demand, Measurement of price elasticity of demand, Elasticity of substitution and the relationship between price elasticity, income elasticity and elasticity of substitution; Elasticity of supply.

Unit II

Theories of demand: The classical utility approach, Indifference curves approach, Revealed Preference approach, consumer's surplus.

Unit III

Theory of production: Production function, isoquants, returns to a factor and returns to scale and their compatibility, Elasticity of substitution, Economies of scale.

Unit IV

Cobb–Douglas production function, Production function of a multi-product firm.
Theories of Costs: Short and long period costs, Traditional and Modern theories of costs, Derivation of cost function from production function.
Revenue analysis: Revenue curves and their mutual relationship.

Recommended Books:
1. Ahuja, H. L. (2009), Modern Micro Economics, Sultan Chand and Co.
2. Koutsyannis, A. *(1977)*, *Modern Microeconomics,* 2nd Edition*,* Macmillan Press, London.
Note: The latest edition of the books is recommended.

(ANNEXURE -N)

FACULTY OF VOCATIONAL STUDIES

SYLLABUS

OF

ECONOMICS

For

Bachelor of Vocation (Retail Management) (Semester: II)

(Under Credit Based Continuous Evaluation Grading System)

Session: 2021-2022

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

The Heritage Institution

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

CURRICULUM AND SCHEME OF EXAMINATIONS OF THREE-YEAR DEGREE PROGRAMME
BACHELOR OF VOCATION (RETAIL MANAGEMENT) (SEMESTER -II)
Session: 2021-22

Course Code	Course Title	Course Type	Credits	Marks					
				Total	Ext.		CA	Examination Time (In Hours)
					L	P		
BVRL-2325	Managerial Economics	C	2	50	40		10	3

BACHELOR OF VOCATION (RETAIL MANAGEMENT) (SEMESTER -II)
SESSION 2021-2022
Managerial Economics
COURSE CODE: BVRL-2325
JOB ROLE: RETAIL TEAM LEADER- RAS/Q0105 (NSQF LEVEL-5)

After successful completion of this course, students will be able to:

CO1: Understand the basic concepts of managerial economics.
CO2: Apply economic principles to management decisions.
CO3: Understand the basic concepts of demand, supply and equilibrium and their determinants.

BACHELOR OF VOCATION (RETAIL MANAGEMENT) (SEMESTER -II)

SESSION 2021-2022

Managerial Economics

COURSE CODE: BVRL-2325

JOB ROLE: RETAIL TEAM LEADER- RAS/Q0105 (NSQF level-5)

Time: 3 Hours	**Max. Marks: 50**
4 Hours/week	**Theory Marks: 40**
L-T-P	**CA: 10**
2-0-0	

Note: Instructions for the Paper–Setter:

Two questions, each carrying 8 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit-I

Introduction to Managerial Economics: Introduction, Concept, Scope, Significance of Managerial Economics.

Distinction Between Economics and Managerial Economics, Role of Managerial Economics &Major Economic Problems & Tools of Managerial Economics, Functions of Managerial Economist.

Unit-II

Demand and Supply: Introduction, Concept of Demand, Law of Demand, Change in Demand & Quantity Demanded, Concept of Supply, Law of Supply, Demand & Supply Equilibrium.

Elasticity of Demand and Supply: Price Elasticity of Demand, Measurement, Factors Influencing Price Elasticity of Demand. Income Elasticity of Demand, Cross Elasticity of Demand. Elasticity of Supply, Factors Determining Elasticity of Supply.

Unit-III

Production & Cost function: Production Function, Short run Production, Long run Production, Producer's Equilibrium, Types of Production Function. Concept of Cost, Type of Cost in Long run and Short run.

Unit-IV

Market Dynamic: Elements of Competition, Perfect Competition, Monopoly & Price Discrimination, Imperfect Competition &Duopoly.

Role of Government in an Economy: Introduction, Requirement of Government Intervention in an Eonomy, role of Govt. in Different Economic Systems and Policies.

Recommended Books:

1. Mehta,P.L.(2013) *Managerial Economics*, S. Chand and Sons Company Ltd., New Delhi.

2. Ahuja,H.L. (2018)*Advanced Economic Analysis,* S. Chand & Co. Ltd, New Delhi.

Note: The latest edition of the books is recommended.

(ANNEXURE -O)

FACULTY OF VOCATIONAL STUDIES

SYLLABUS

OF

ECONOMICS

For

Master of Vocation (Retail Management) (Semester: I)

(Under Credit Based Continuous Evaluation Grading System)

Session: 2021-2022

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

The Heritage Institution

Kanya Maha Vidyalaya, Jalandhar (Autonomous)
CURRICULUM AND SCHEME OF EXAMINATIONS OF TWO-YEAR DEGREE PROGRAMME
MASTER OF VOCATION (RETAIL MANAGEMENT) (SEMESTER -I)
Session: 2021-22

Course Code	Course Title	Course Type	Credits	Marks				
				Total	Ext.		CA	Examination Time (In Hours)
					L	P		
MVRL-1324	Economics of Retail	C	4	100	80	-	20	3

MASTER OF VOCATION (RETAIL MANAGEMENT) (SEMESTER -I)
Session: 2021-22
Course Code: MVRL-1324
ECONOMICS OF RETAIL

After successful completion of this course, students will be able to:

CO1: Identify the factors that affect demand and supply.
CO2: Appreciate the role of markets and institutions in facilitating development of retail industry.
CO3: Apply the knowledge and skills acquired to study the main forces sustaining and limiting economic development.
CO4: Understand how economics affect the business strategy of retail industry.
CO5: Understand the contribution of retail industry in today's economy.

MASTER OF VOCATION (RETAIL MANAGEMENT) (SEMESTER -I)
Session: 2021-22
Course Code: MVRL-1324
Economics of Retail

Examination Time: 3 Hours
Max. Marks: 100
Theory Marks: 80
CA: 20

Note: Instructions for the Paper–Setter:

Two questions, each carrying 16 marks, from each of the Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit-I

Retail Economics: Benefits to the Economy, Retailing Environment: The Legal environment, The Economic environment, The Technological environment, The Global environment. The Competitive Environment. Types of Competition: Analyzing Competition. Retail economics in India, Contribution of retail industry in today's economy. Contribution of FDI in Retailing

Unit-II

Theory of Demand: Meaning of demand and its types, law of demand, price elasticity of demand and its measurement. Concept of supply, law of supply, demand & supply equilibrium.

Consumer Behaviour: Utility approach: Brief outline of law of diminishing marginal utility and law of Equi-marginal utility.

Consumption: Meaning, determinants (subjective and objective) and importance, Keynes Psychological Law of Consumption.

Unit-III

Perfect Competition: Meaning, features, price and output determination of firm and industry under perfect competition.

Monopoly: Meaning, features, price and output determination under monopoly.

Monopolistic Competition: Meaning, features, price and output determination under monopolistic competition.

Unit-IV

Pricing and Output Decisions: Methods of pricing, differential pricing, Government intervention and pricing. Profit: Meaning and nature, Profit policies, Profit planning and forecasting, Cost-Volume - Profit analysis, Investment analysis.

SUGGESTED READINGS:

1. Mehta,P.L.(2013) *Managerial Economics*, S. Chand and Sons Company Ltd., New Delhi.

2. Ahuja,H.L. (2018)*Advanced Economic Analysis,* S. Chand & Co. Ltd, New Delhi.

Note: The latest edition of the books is recommended..

(ANNEXURE -P)

Faculty of Life Sciences

SYLLABUS

OF

ECONOMICS

For

B.Sc. (Hons.)Agriculture (Semester-VI)

(Under Continuous Evaluation System)

Session (2021-22)

Kanya Maha Vidyalaya, Jalandhar (Autonomous)

The Heritage Institution

Scheme of Studies and Examination

B.Sc. (Hons.) Agriculture (Semester-VI)

Session 2021-22

Semester I								
Course Code	**Course Type**	**Course Title**	**Hours/ Week**	**Marks**				
				Total	**Ext.**		**CA**	**Examination Time (In Hours)**
					L	**P**		
BACM- 6018	C	**Farm Management, Production And Resource Economics**	4	50	25	15	10	3

B.Sc. (Hons.) Agriculture (Semester-VI)
(Session: 2021-22)
Course Code: BACM- 6018
Farm Management, Production and Resource Economics
(THEORY)

Course Outcomes:

After passing this course student will be able to:
CO1: understand the basic and advanced farm management practices and production functions.
CO2: prepare of farm records and accounts.
CO3: identify risks and uncertainty in agricultural production.

B.Sc. (Hons.) Agriculture (Semester-VI)
(Session: 2021-22)
Course Code: BACM- 6018
Farm Management, Production and Resource Economics
(THEORY)

Time: 3 Hrs. **Max. Marks: 50**
Theory: 25
Practical: 15
C.A: 10

Instructions for the Paper Setter

Two questions, each carrying 5 marks, from each of Units I-IV (i.e. a total of eight questions) are to be set. Candidates are required to attempt five questions, selecting at least one from each unit. The fifth question may be attempted from any unit.

Unit – I

Meaning and concept of farm management, objectives and relationship with other sciences. Meaning and definition of farms, its types and characteristics, factor determining types and size of farms. Principles of farm management: concept of production function and its type, use of production function in decision-making on a farm, factor-product, factor-factor and product-product relationship, law of equi-marginal/or principles of opportunity cost and law of comparative advantage.

Unit – II

Meaning and concept of cost, types of costs and their interrelationship, importance of cost in managing farm business and estimation of gross farm income, net farm income, family labour income and farm business income. Farm business analysis: meaning and concept of farm income and profitability, technical and economic efficiency measures in crop and livestock enterprises. Importance of farm records and accounts in managing a farm, various types of farm records needed to maintain on farm, farm inventory, balance sheet, profit and loss accounts.

Unit – III

Meaning and importance of farm planning and budgeting, partial and complete budgeting, steps in farm planning and budgeting-linear programming, appraisal of farm resources, selection of crops and livestock's enterprises. Concept of risk and uncertainty occurs in agriculture production, nature and sources of risks and its management strategies, Crop/livestock/machinery insurance – weather based crop insurance, features, determinants of compensation.

Unit – IV

Concepts of resource economics, differences between NRE and agricultural economics, unique properties of natural resources. Positive and negative externalities in agriculture, Inefficiency and welfare loss, solutions, Important issues in economics and management of common property resources of land, water, pasture and forest resources etc.

Recommended Books:

1. Reddy,S. and Subba Devi Bhava (2012)*Agricultural Economics*, Oxford & IBH Publishing Co. Pvt. Ltd.
2. Dhondyal ,S .P. (2014)*Production economics and farm management* ,Aman Publishing House, New Delhi.
3. Subba Reddy S., Raghu Ram, Neelakanta P., Sastry T .V. and Bhavani Devi (2011)*Agricultural Economics*, Oxford and IBH Publishing Co. Private Limited, New Delhi.
4. Heady Earl O and Herald R. Farm *Management Economics*,Prentice Hall, New Delhi.

SUGGESTED WEBSITES

Web sites: http://www.agrimoon.com/
http://www.agriinfo.in/ eagri.org
http://www.agriglance.com/
http://agritech.tnau.ac.in/

Note: The latest edition of the books is recommended.