

AC- 02/03/2019

Item No-2.20



**Rayat Shikshan Sanstha's
KARMAVEER BHURAO PATIL COLLEGE, VASHI.
NAVI MUMBAI
(AUTONOMOUS COLLEGE)**

Sector-15- A, Vashi, Navi Mumbai - 400 703

Syllabus for P.G.Programs under the faculty of Arts

COURSE: M.A.II IN BUSINESS ECONOMICS

**(Choice Based Credit, Grading and Semester System
with effect from the academic year 2019-2020)**

M.A. BUSINESS ECONOMICS (PART II)

Semester III

Course ñ Economics of Growth and Development

Paper- IX, Economics of Growth and Development

Course Code	Module	TOPICS	Credits	H/Week
PGBECO301	I	INTRODUCTION	6	4
	II	THEORIS OF DEVELOPMENT		
	III	APPLICATIONS OF DEMAND AND SUPPLY ANALYSIS		
	IV	LESS DEVELOPED COUNTRIES AND DEVELOPMENT		

(SEMESTER-IV)

Economics of Growth and Development ñ Paper XIII

Course Code	Module	TOPICS	Credits	H/Week
PGBECO401	I	MACRO ECONOMIC POLICIES AND DEVELOPMENT	6	4
	II	DEVELOPMENT AND PLANNING MODELS		
	III	SECTORAL CONTRIBUTION AND DEVELOPMENT STRATEGIES		
	IV	INDIAN ECONOMIC PLANNING, TRADE AND DEVELOPMENT		

(SEMESTER-III)

Economics of Growth and Development Paper

Contact Hours 48 + Notional Hours 12= Total hours 60

Module No.	Revised Syllabus
Module- I	INTRODUCTION (12) 1.1 Development and underdevelopment ñ perpetuation of under development ñ absolute and relative 1.2 Development and underdevelopment ñ perpetuation of under development ñ absolute and relative 1.3 Human development index and other indices of development and quality of life 1.4 Food security, education, health and nutrition ñ 1.5 Human resource development ñ population problem and growth pattern of population. Population, poverty and environment
Module- II	THEORIS OF DEVELOPMENT (12) 2.1 Theories of development ñ classical theory of development -Karl Marxís theory of development- theory of social change- Immutable laws of capitalist development ñ crisis in capitalism- 2.2 Schumpeter and capitalist development- 2.3 Kremerís O-ring theory of economic development
Module- III	APPLICATIONS OF DEMAND AND SUPPLY ANALYSIS (12) 3.1 Importance of industry in economic development 3.2 The model of complementarities between agriculture and industry 3.3 Rationale and pattern of industrialization in developing countries 3.4 The choice of technology and appropriate technology infrastructure and its importance
Module- IV	LESS DEVELOPED COUNTRIES AND DEVELOPMENT (12) 4.1 Need for investment criteria in less developed countries; present vs. future growth; Alternative investment criteria; cost ñ benefit analysis- 4.2 Role of monetary and fiscal policies in developing countries 4.3 WTO and developing countries.

Note: Yellow colour: Topic related to ethics, gender, human values, environment and sustainability

REFERENCES:

- 1) Adelman I. (1961) Theories of Economic development, Stanford University Press.
- 2) Behrman S. and T.N. Srinivasan (1965), Handbook of Development economics, Vol.3, Elsevier, Amesterdam.
- 3) Brown M. (1966), On the Theory and Measurement of Technical Change, Cambridge University, Press, Cambridger, Mass.
- 4) Chenary H.B. and T. N. Srinivasan, (Eds.), (1989), Handbook of Development Economics, Vol.1& 2,
- 5) Chenery, H. and T. N. Srinivasan (Eds.) (1989), Handbook of Development Economics, Vols. 1 & 2, Elsevier, Amsterdam.
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- 6) Dasgupta, P. (1993), An Enquiry into Well-being and Destitution, Clarendon Press, Oxford.
- 7) Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London.
- 8) Gilliis, M. D. H. Perkins, M. Romer and D. R. Snodgrass (1992), Economics of Development, (3rd Edition), W. W. Norton, New York.
- 9) Hogendorn, J. (1996), Economic Development, Addison, Wesley, New York.
- 10) Kindleberger, C.P. (1977), Economic Development, (3rd Edition), McGraw Hill, New York.
- 11) Meier, G. M. (1995), Leading Issues in Economic Development, (6th Edition), Oxford University Press, New Delhi.
- 12) Myint, H. (1971), Economic Theory and Underdeveloped Countries, Oxford University, New York.
- 13) Myint, Hla (1965), The Economics of Underdeveloped Countries, Preager, New York.
- 14) Thirwas, A. P. (1999), (6th Edition), Growth and Development, Macmillan,U.K.
- 15) Todaro, M. P. (1996), (6th Edition), Economic Development, Longman,London.

Core Course Semester IV Economics

of Growth and Development

Contact Hours 48 + Notional Hours 12= Total hours 60

Module No.	Revised Syllabus
Module- I	MACRO ECONOMIC POLICIES AND DEVELOPMENT (12) 1.1 Monetary policy and development 1.2 Fiscal Policy and development 1.3 Internal and External sources of finance and development 1.4 IMF, IBRD and development of developing countries
Module- II	DEVELOPMENT AND PLANNING MODELS (12) 2.1 Arthur Lewis, Fei-Raniís, Structuralist models, 2.2 Rostowís stages of growth 2.3 Feldman, Mahalanobis, Vahit Brahmananda, Raj-Sen, Chakravarthy, Leontiefís Input-Output Model 2.4 Planning Techniques; Investment Criteria
Module- III	SECTORAL CONTRIBUTION AND DEVELOPMENT STRATEGIES (12) 3.1 Role of Agricultural in Economic development. 3.2 Role of Service sector in Economic development. 3.3 Role of Physical Infrastructures in Economic development. 3.4 Neumannís growth model and modifications 3.5 Active and passive variables- Choice of goods and Techniques 3.6 Mathurís Wage Goods, Light and Heavy Strategies.
Module- IV	INDIAN ECONOMIC PLANNING, TRADE AND DEVELOPMENT (12) 4.1 Meaning, Nature and Objectives of Indian economic planning 4.2 Evaluation of Planning in India. 4.3 12th Five year plan and recent changes. 4.4 Internal trade and economic development

REFERENCES

- 1) Adelman I. (1961) Theories of Economic development, Stanford University Press.
- 2) Behrman S. and T.N. Srinivasan (1965), Handbook of Development economics, Vol.3, Elsevier, Amsterdam.
- 3) Brown M. (1966), On the Theory and Measurement of Technical Change, Cambridge University, Press, Cambridge, Mass.
- 4) Chenary H.B. and T. N. Srinivasan, (Eds), (1989), Handbook of Development Economics, Vol.1& 2,
- 5) Chenery, H. and T. N. Srinivasan (Eds.) (1989), Handbook of Development Economics, vols. 1 & 2, Elsevier, Amsterdam.
- 6) Dasgupta, P. (1993), An Enquiry into Well-being and Destitution, Clarendon Press, Oxford.
- 7) Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London.
- 8) Gilliis, M. D. H. Perkins, M. Romer and D. R. Snodgrass (1992), Economics of Development, (3rd Edition), W. W. Norton, New York.
- 9) Hogendorn, J. (1996), Economic Development, Addison, Wesley, New York.

- 10) Kahkonon, S. and M. Olson (2000), A New Institutional Approach to Economic Development, Vistaar.
- 11) Kindleberger, C.P. (1977), Economic Development, (3rd Edition), McGraw Hill, New York.
- 12) Meier, G. M. (1995), Leading Issues in Economic Development, (6th Edition), Oxford University Press, New Delhi.
- 13) Myint, H. (1971), Economic Theory and Underdeveloped Countries, Oxford University, New York.
- 14) Myint, Hla (1965), The Economics of Underdeveloped Countries, Preager, New York.
- 15) Thirwas, A. P. (1999), (6th Edition), Growth and Development, Macmillan, U.K.
- 16) Todaro, M. P. (1996), (6th Edition), Economic Development, Longman, London.

International Trade and Finance

PREAMBLE

The Board of Studies in Economics has designed the syllabi of M.A. II Paper-II which will be made effective from the Academic Year 2019-20. The objective of the course is to familiarize the students the basic concepts of Macro Economics, Economic theories and its applications. The syllabi are framed to understand the Economic theory and its relevance in decision making.

(SEMESTER-III)

Paper- X, International Trade and Finance

Course	Module	TOPICS	Credits	H/Week
PGBECO302	I	CLASSICAL THEORIES OF TRADE	6	4
	II	MODERN THEORIES OF TRADE		
	III	DEVELOPMENTS IN TRADE THEORIES		
	IV	TRADE POLICY		

(SEMESTER-IV)

Paper XIV, International Trade and Finance

Course Code	Module	TOPICS	Credits	H/Week
PGBECO402	I	BALANCE OF PAYMENTS	6	4
	II	THE GOODS MARKET IN THE OPEN ECONOMY		
	III	FOREIGN EXCHANGE MARKET AND EXCHANGE RATES		
	IV	INTERNATIONAL CAPITAL MOVEMENTS		

International Trade and Finance
Semester III

Contact Hours 48 + Notional Hours 12= Total hours 60

Module- I	<p>Classical Theories of trade</p> <p>1.1 Adam Smith's Absolute Cost Difference Theory 1.2 Ricardo's Comparative Cost Difference Theory. 1.3 Haberler's Opportunity Cost version 1.4 Taussig's Comparative Cost doctrine expressed in terms of money. 1.5 Pro-Trade, Anti Trade and Neutral trade growth</p>
Module- II	<p>Modern Theories of trade</p> <p>2.1 Heckscher- Ohlin Theory- - Factor Endowment Theory 2.2 Factor Price Equalization- Graphical demonstration 2.3 Lerner's Illustration of Factor Price Equalisation, 2.4 Leontief's Paradox</p> <p>2.5 The Stolper- Samuelson Theorem 2.6 The Linder Theory- 2.7 Rybczynsk Theorem</p>
Module- III	<p>Developments in Trade Theories</p> <p>3.1 Offer Curve and Terms of Trade 3.2 Prebisch - Singer Thesis 3.3 Product differentiation and trade; 3.4 Technological Gap and Product Cycle 3.5 Environmental Standards and Trade</p>
Module- IV	<p>Trade Policy</p> <p>4.1 Free Vs protective Trade Policy-arguments in favour and against 4.2 Instruments of trade Policy: Tariffs- Meaning, types and effects 4.3 Quotas-Meaning, types and effects- Tariffs and quotas comparison 4.4 Dumping and subsidies 4.5 International Cartels and VER 4.6 Technical standards, Administrative and other regulations.</p>

Note: Green colour: topic related to local/national/regional and global development needs.

References

- 1) Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge University Press, Massachusetts
- 2) Carbough, R. J. (1999), International Economics, International Thompson Publishing, New York.
- 3) Chacholiades, M. (1990), International Trade: Theory and Policy, McGraw Hill Kogakusha, Japan.
- 4) Dana, M.S. (2000), International Economics: Study, Guide and work Book(5th Edition), Routledge Publishers ,London.
- 5) Krugman, P. R. and M. Obstfeld (1994), International Economics Theory and Policy, Glenview Foresman
- 6) Salvatore, D. (1997), International Economics, Prentice Hall, Upper Saddle River N. J. New York
- 7) Soderstron, Bo (1991), International Economics, The Macmillan Press Ltd London
- 8) Mithani D.M. (1997), International Economics, Himalaya publishing House, Mumbai

International Trade and Finance

Semester IV

Contact Hours 48 + Notional Hours 12= Total hours 60

Module I	Balance of Payments 1.1 Balance of Payments- Meaning, Structure and Importance 1.2 Disequilibrium in the Balance of Payments- Kinds, Causes 1.3 Adjustment Process to Disequilibrium in Balance of Payments - Expenditure switching and Expenditures changing measures 1.4 Direct Measures 1.5 Rate of Exchange determination 1.6 Hedging, Speculation and Arbitrage
Module II	The Goods Market in the Open Economy 2.1 Import and Export Function 2.2 Foreign Trade Multiplier. 2.3 Equilibrium output and the trade Balance 2.4 The Real exchange Rate, Trade Balance and output 2.5 Fiscal and exchange rate policy with a fixed Exchange Rate
Module III	Economics of Integration and International Institutions 3.1 Forms and Benefits of Economic Integration; 3.2 Theory of Customs Union; Regional Trade Agreements- EU and BREXIT, SAARC, BRICS, OPEC, ASEAN- 3.3 Multilateral Institutions-IMF and WTO
Module IV	INTERNATIONAL CAPITAL MOVEMENTS 4.1 International Capital Flows: Types and Trends. 4.2 Motives for capital flows. 4.3 Effects of international Capital Flows 4.4 Dutch disease. Advantages and Disadvantages of MNC- transfer pricing 4.5 Asian crisis-Global Financial Crisis-Euro Crisis

References

BASIC READING LIST:

- 1) Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge University Press, Massachusetts
- 2) Carboough, R. J. (1999), International Economics, International Thompson Publishing, New York.
- 3) Chacholiades, M. (1990), International Trade: Theory and Policy, McGraw Hill Kogakusha, Japan.

- 4) Dana, M.S. (2000), International Economics: Study, Guide and work Book (5th Edition), Routledge Publishers ,London.
- 5) Krugman, P. R. and M. Obstfeld (1994), International Economics Theory and Policy, Glenview Foresman
- 6) Salvatore, D. (1997), International Economics, Prentice Hall, Upper Saddle River N. J. New York
- 7) Soderstron, Bo (1991), International Economics, The Macmillan Press Ltd London
- 8) Mithani D.M. (1997), International Economics, Himalaya publishing House, Mumbai

Public Economics

PREAMBLE

Role and functions of the Government in an economy have been changing with the passage of time. The term 'Public Finance' has traditionally been applied to the package of those policies and operations which involve the use of tax and expenditure measures while budgetary policy is an important part to understand the basic problems of use of resources, distribution of income, etc. There are vast areas of fiscal institutions & tax systems, expenditure programmes, budgetary procedures, stabilization instruments, debt issues, levels of government, etc., which raise a spectrum of issues arising from the operation of these institutions. This paper will enable to the learners to understand the various aspects of the operating aspects of the governments.

Paper- XI, Public Economics- Semester- III

Course Code	Module	Topics	Credit	H/Week
PGBECO303	I	INTRODUCTION	6	4
	II	PUBLIC REVENUE		
	III	PUBLIC EXPENDITURE		
	IV	FISCAL POLICY		

Paper- XV, Public Economics- Semester- IV

Course Code	Module	Title	Credits	H/Week
PGBECO403	I	PUBLIC DEBT	6	4
	II	IMPACTS AND INCIDENCE OF TAXES		
	III	FISCAL FEDERALISM		
	IV	RECENT DEVELOPMENTS		

Contact Hours 48 + Notional Hours 12= Total hours 60

Module No. I	INTRODUCTION (12) 1.1 Public Finance: Introduction, Scope 1.2 Economic Rationale of the government: Fiscal Function of the government 1.3 Market failures: Meaning, Causes and Role of Government to correct market failure 1.4 Private Goods and Public Goods 1.5 Maximum Social Benefit Principle (Dalton and Musgraveí Approach)
Module No. II	PUBLIC REVENUE (12) 2.1 Revenues of the Central Government 2.2 Constitutional Provisions for Taxation 2.3 Tax Revenue and Non- Tax Revenue of the Central Government. 2.4 Revenue Sources and responsibilities of the Central Government. 2.5 Revenue Sources and responsibilities of the State Government.
Module No. III	PUBLIC EXPENDITURE (12) 3.1 Public Expenditure: meaning and types, classical and modern views. 3.2 The Wagnerís Law of Public Expenditure 3.3 Wiseman-Peacock Hypothesis 3.4 Structure and growth of Public expenditure in India. 3.5 Economic Effects of Public expenditure 3.6 Causes of increasing Public Expenditure in India
Module No. IV	FISCAL POLICY (12) 4.1 Meaning and objectives of fiscal policy 4.2 Instruments of fiscal policy 4.3 Macroeconomic effects of fiscal deficits 4.4 The concepts of Fiscal deficit, Revenue deficit, Primary deficit and its trend since 1991. 4.5 Fiscal Responsibility and Budget Management Act. 2003

Contact Hours 48 + Notional Hours 12= Total hours 60

<p>Module No. I</p>	<p>PUBLIC DEBT (12) 1.1 Classical and modern views on Public debt 1.2 Sources and types of Public debt 1.3 Burden of public debt 1.4 Public borrowings and price level 1.5 Principles of public debt management and repayment</p>
<p>Module No. II</p>	<p>IMPACTS AND INCIDENCE OF TAXES (12) 2.1 Meaning of Impact , shifting and incidence of taxes 2.2 Distinction between Impact and Incidence of taxation 2.3 Theories of shifting: A. The concentration theory B. The diffusion theory C. The modern theory 2.4 The factors affecting on incidence of tax- Elasticity of demand and supply and market conditions.</p>
<p>Module No. III</p>	<p>FISCAL FEDERALISM (12) 3.1 Fiscal federalism in India 3.2 Vertical and horizontal imbalance 3.3 Finance commission: Fourteenth Finance Commission, central state conflicts on finances 3.4 Overview of Local Finances: Municipal Corporations, Municipalities and Nagarpanchyats 3.5 Finances of Village Panchyats, Panchyat Samities and Zila Parishads.</p>
<p>Module No. IV</p>	<p>RECENT DEVELOPMENTS (12) 4.1 Goods and Services Tax: An analysis 4.2 Salient Features of Indian Economy (Latest Economic Survey GOI) 4.3 NITI Aayog 4.4 Perspective on Universal Basic Income 4.5 Current Union Budget</p>

Note: Green colour: topic related to local/national/regional and global development needs.

Research Methodology and Statistic Analysis
Preamble

This paper is designed with a goal to strengthen the critical thinking and listening skills in conducting research and to device research outcomes in an impeccable way. The entire course is based on the broad social sciences spectrum.

Paper XII Research Methodology and Statistic Analysis (SEMESTER-III)

Course Code	Module	TOPICS	Credits	H/Week
PGBECO304	I	MEANING AND TYPES OF RESEARCH.	6	4
	II	RESEARCH DESIGN		
	III	SOURCES OF DATA		
	IV	ANALYSIS OF DATA		

Paper XVI, Research Methodology and Statistic Analysis (SEMESTER-IV)

Course Code	Module	TOPICS	Credits	H/Week
PGBECO404	I	STATISTICAL APPLICATIONS IN RESEARCH	6	4
	II	INDEX NUMBERS		
	III	HYPOTHESIS FORMULATION AND HYPOTHESIS TESTING		
	IV	RESEARCH REPORT WRITING		

Research Methodology and Statistic Analysis (SEMESTER-III)

Contact Hours 48 + Notional Hours 12= Total hours 60

Module -1. Meaning and Types of Research (12 hours)

- 1.1 Meaning and Objectives of research.
- 1.2 Types of research- Pure research, applied research, Exploratory Research, Descriptive research, Diagnostic research, Quantitative and Qualitative research etc.
- 1.3 Significance of Research
- 1.4 Research Methods and Methodology
- 1.5 Research Ethics

Module -2. Research Design (12 hours)

- 2.1 Meaning of research Design
- 2.2 Need for research design
- 2.3 Features of a Good Research Design
- 2.4 Important Concept Related to research design
- 2.5 Deferent research designs

Module - 3. Sources of Data (14hours)

- 3.1 Methods of data collection: Direct and Indirect
- 3.2 Sampling design: meaning, types and its applications
- 3.3 Collection of Primary Data - Surveys, Interviews, Questionnaires, personal interviews, group interviews, small group studies, Schedule, Observation, participant or nonparticipant observation.
- 3.4 Collection of Secondary Data: Various sources
- 3.5 Problems in data collection

Module ñ 4. Analysis of Data (10 hours)

- 4.1 Measures of Central Tendency, Dispersion, Skewness and Kurtosis
- 4.2 Graphs and Diagrams.
- 4.3 Introduction to data analysis software: SPSS

Semester IV
Research Methodology and Statistic Analysis

Contact Hours 48 + Notional Hours 12= Total hours 60

Module 1: Correlation and Regression

(12 hours)

- 1.1 Correlation-Meaning and types of correlation, measurement of correlation ñ Scatter diagram, Karl Pearsonís coefficient of correlation, Spearmanís Rank correlation- Testing of correlation coefficient.
- 1.2 Regression: Simple regression model-estimation ñ least squares model- Goodness of fit. Introduction to multiple regression.

Module 2: Index numbers

(12 hours)

- 2.1 Meaning ñ classification ñ problems encountered while constructing index numbers- uses and limitation of index numbers, Methods of constructing index numbers: Simple indices) aggregate method ii) simple average of relatives method, Weighted index: Laspeyerís, Paacheís and Fisherís index ñ weighted average of relatives method. Limitations of Index Number.
- 2.2 Concepts of Base shifting, splicing, and deflating, Consumer price index: meaning, need and construction ñ methods: aggregate expenditure method and family budget method.

Module 3: Hypothesis formulation and Hypothesis Testing

(12 hours)

- 3.1 Definition and functions of hypothesis ñ Criteria of workable hypothesis ñ forms and sources of hypothesis- Concepts in Testing of Hypothesis: Universe / Population, parameter and statistic.
- 3.2 Null and Alternative Hypotheses, Levels of Significance, critical region, Type I and Type II errors.
- 3.3 T-test, F-test, X^2 -test

Module 4: Research Report writing

(12 hours)

- 4.1 Types of Research Report: Technical, Popular, Interim, Summary, Article- Format of a Research Report- Principles of writing the Research Report: Organization and Style Contents-Styles of reporting- Steps in drafting Reports- Editing the final draft- Evaluating the final draft -Organization of the Research Report: Preliminaries, Contents of Report, Structuring the Report: Chapter format- Pagination- Identification- Using quotations- Presenting footnotes ñ abbreviations- Presentation of tables and figures.
- 4.2 Referencing-Documentation-Use and format of appendices- Indexing - Bibliography, Appendices.

Note: 1. **Blue Highlighted Topic** / Course has focus on employability/ entrepreneurship/skill development

2. **Yellow Highlighted Topic** / Course is related to professional ethics, gender, human values, Environment & sustainability

References:

- 1) C. R. Kothari and Gaurav Garg, Research Methodology Methods and Techniques, New Age Publishers, Third Edition 2014.
- 2) Goode J. William & Hatt K. Paul, Methods in social Research, New York, McGraw-Hill, 1952.
- 3) Krishnaswami, O.R & M. Ranganathan, Methodology of Research in Social Sciences, Himalaya Publishing House, Mumbai, 2011.
- 4) Kumar, Renjith (2009) Research Methodology: A Step by Step Guide for Research, Delhi, Pearson Education, 2009.
- 5) P. Saravanel Research Methodology, Kitab Mahal, Allahabad, 1987.
- 6) Gupta S P Statistical Methods Sultan Chand and Sons.

Scheme of Examination:

The performance of the learners shall be evaluated in to two parts. The learner's performance shall be assessed by Internal Assessment with 40% marks in the first part by conducting the Semester End Examinations with 60% marks in the second part. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below:-

(A) Continues Internal Evaluation: 40 Marks (40%)

Sr. No	Evaluation type	Marks
1	Test	20
2	Online test/Project/survey/Field Visit/Assignment/Research Paper Review/Book Review	10
3	Viva-Voce/Presentation/Interview/Group Discussion	10

(B) Semester End Examination: 60 Marks (60%)

Question Paper Pattern Semester End Examination

Max.Marks:60

Time: 2 hours

- Note:
- 1.All questions are **COMPULSORY**
 2. Each question carries 15 marks.
 3. Draw neat diagrams wherever necessary

- Q.1** Answer Any Two of the following [Module 1] 15
A
B
C
- Q.2** Answer Any Two of the following [Module 2] 15
A
B
C
- Q.3** Answer Any Two of the following [Module 3] 15
A
B
C
- Q.4** Answer Any Two of the following [Module 4] 15
A
B
C

Scheme of Examination: Research Methodology

The performance of the learners shall be evaluated in to two parts. The learnerís performance shall be assessed by Internal Assessment with 40% marks in the first part by conducting the Semester End Examinations with 60% marks in the second part. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below:-

(A) Continues Internal Evaluation: 40 Marks (40%)

Sr. No	Evaluation type	Marks
1	Research Project	30
2	Publication/Presentation	10

(B) Semester End Examination: 60 Marks (60%)

Question Paper Pattern Semester End Examination

Max.Marks:60

Time: 2 hours

- Note: 1.All questions are **COMPULSORY**
4. Each question carries 15 marks.
5. Draw neat diagrams wherever necessary

- Q.1** Answer Any Two of the following [Module 1] 15
A
B
C
- Q.2** Answer Any Two of the following [Module 2] 15
A
B
C
- Q.3** Answer Any Two of the following [Module 3] 15
A
B
C
- Q.4** Answer Any Two of the following [Module 4] 15
A
B
C