



SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar, Gujarat

(Reaccredited with 'A' Grade by NAAC (CGPA 3.25))

Syllabus with effect from the Academic Year 2022-2023



MASTERS OF ARTS (ECONOMICS)

MA (Economics) Semester – IV

Course Type	Course Code	Course Title	Total Credits	Hours per Week	External	Internal	Total
Core Courses (Compulsory)	PA04CECO51	Economics of Development and Planning – II	05	05	70 / 28	30 / 10	100 / 40
	PA04CECO52	Theory of Public Economics – II	05	05	70 / 28	30 / 10	100 / 40
	PA04CECO53	International Economics – II	05	05	70 / 28	30 / 10	100 / 40
Elective Group – I (Any One)	PA04EECO51	Human Development	05	05	70 / 28	30 / 10	100 / 40
	PA04EECO52	Economics of Livestock Farming	05	05	70 / 28	30 / 10	100 / 40
	PA04EECO53	Basics of Computers for Economics	05	05	70 / 28	30 / 10	100 / 40
	PA04EECO54	Indian Economy	05	05	70 / 28	30 / 10	100 / 40
Elective Group – II (Any One)	PA04EECO55	Environmental Protection in India	05	05	70 / 28	30 / 10	100 / 40
	PA04EECO56	Fundamentals of Research Methodology in Economics	05	07	70 / 28	30 / 10	100 / 40
	PA04EECO57	Project Work	05	07	70 / 28	30 / 10	100 / 40
Total			25		350	150	500

- Note: (1) Students who opt for “**Economics of Environment**” as an Elective Course in Semesters- 1, 2 & 3 are not allowed to opt course **Environmental Protection in India**” in the Fourth Semester.
- (2) Students who opt for “**Human Development**” as an Elective Course in Semesters- 1, 2 & 3 are not allowed to opt course “**Human Development**” in the Fourth Semester.
- (3) Students who opt for “**Research Methodology and Computer Application in Economics**” as an Elective Course in Semesters- 1, 2 & 3 are not allowed to opt courses “**Basics of Computers for Economics**” or “**Fundamentals of Research Methodology in Economics**” in the Fourth Semester.
- (4) Only those students who opt Research Methodology in semester- 1, 2 & 3 can opt Project work in semester - 4.



MA (Economics) Semester IV

Course Code	PA04CECO51	Title of the Course	Economics of Development and Planning - II
Total Credits of the Course	5	Hours per Week	5

Course Objectives / Purpose:	<ul style="list-style-type: none">• The objective of this course is to explain and critically examine selected theories and models of 'growth and development'.• The objective of this course is also to develop among students' capabilities to appraise certain developmental aspects of Indian economy and determine structural changes in Gujarat economy.• Besides the objective of this course is also to develop skills and knowledge among students to be able to undertake a performance appraisal of India on development related goals.
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Course outline		
Unit	Unit Description	Weightage
1.	Rostow's stages of Economic growth, Myrdal's theory of circular causation, Mrs. Joan Robinson's Golden age model of economic growth, Harrod's model & Domar's Model, Comparison of Harrod-Domar model, Meade's Neo-classical model of economic Growth	25%
2.	Models of technical change and Hicks, Sources of economic growth by Solow and Denison, Arrow's 'Learning by Doing' model, Lucas Model, Romer's Model of Technological change, Manpower planning, manpower shortage, manpower surplus	25%
3.	Developmental aspects of Indian economy & Gujarat economy – Macro economic variables of Indian economy , Critical appreciation of economic planning in India during 1951-2017, Structure of Indian economy, Indicators and measurement of poverty and inequality in India Gujarat economy – Macro economic variables and structure of Gujarat economy	25%
4.	NITI Aayog – Concept of Co-operative Federalism, Structure, Functions, Activities Performance of India in Millennium Development Goals (MDGs), Performance of India in HDI, GDI, GII, Multidimensional Poverty Index, India's commitments in Sustainable Development Goals (SDGs),	25%

Teaching-Learning Environment	The course would be taught/learnt through various means like lectures, discussions, writing assignments, viva-voce, seminars presentations, browsing online-resources relevant to the content, participating in co-curricular, extra-curricular activities.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance, Participation in co-curricular and extra-curricular activities	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, student should be able to :	
1.	Explain and critically appreciate selected theories and models of 'growth and development'
2.	Appraise certain developmental aspects of Indian economy and structural changes of Gujarat economy
3.	Undertake a performance appraisal for India's developmental goals.

Suggested References:	
Sr. No.	Reference Books / Research papers / Reports / Any reference material used for teaching / learning the content in the course outline
1.	Jhingan, M.L. (1997). <i>The Economics of Development and Planning</i> . ISBN: 978-81-8281-385-4. Vrinda Publications Pvt. Ltd., Delhi.
2.	Adelman I (1961), <i>Theories of Economic Growth and Development</i> . ISBN: 9780804700832. Stanford University Press, Stanford.
3.	Todaro, M. P. and Stephen C. Smith (2015), <i>Economic Development</i> , 8 th Edition. ISBN: 9780201770513 Delhi: Pearson Education.
4.	Piketty, T. and Saez, E. (2014). <i>Inequality in the long run</i> , Science.
5.	Basu, Kaushik (2007). <i>The Oxford Companion to Economics in India</i> , OUP.
On-line resources: https://niti.gov.in/ ; https://www.unescap.org/sites/default/files/India_and_the_MDGs_0.pdf ; https://sdgindiaindex.niti.gov.in/#/ ; http://mospi.nic.in/sites/default/files/Statistical_year_book_india_chapters/Five%20Year%20Plan%20writeup_0.pdf	



MA (Economics) Semester IV

Course Code	PA04CECO52	Title of the Course	Theory of Public Economics - II
Total Credits of the Course	5	Hours per Week	5

Course Objectives / Purpose:	<ul style="list-style-type: none">• To explain the theories of public expenditure and take an overview of the classification and trends of public expenditure in India• To examine the theoretical rationale of public debt and examine trends of public debt in India• To explain the federal financial structure and demonstrate the characteristics of the Indian federal financial structure• Give an overview of the major taxes of the government of India and reforms therein from time to time
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Unit	Description	Weightage
1.	Public Expenditure Wagner's law of increasing state activities, Peacock hypo thesis, Musgrave's views, pure theory of public expenditure, structure and growth of public expenditure. Indian experience, Reforms in expenditure management, criteria for public investment; social cost benefit analysis, types of benefits and costs & their measurement	25%
2.	Public Debt Meaning, need and sources of public debt, Classical view, Burden of public debt, "debt trap", present and future generations;, debt through created money, price level & public debt, crowding out of private investment & activity; trends of public debt in India, India's debt burden, methods of debt management & repayment, different concepts of deficits & their importance, meaning and need for deficit financing, problems of deficit financing	25%
3.	Fiscal Federalism System of Indian Federal Finance, Finance- Commission, Planning Commission and NITI Aayog: Resources transfers criteria, devolution of resources and grants between States and Center and problems of this system, Current Finance Commission	25%
4.	Indian Public Finance Sources of revenue of Union, States & local bodies, Indian tax system- major taxes, taxation of agriculture, expenditure tax, service tax, STT, FBT, Dividend tax, VAT-ModVAT, CENVAT, MAT, GST, Reforms in direct and indirect taxes-Recommendations of various tax reforms committees from time to time, Other Fiscal Reform, Budget: Its preparation, significance, analysis, recent Union Government budget	25%



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Syllabus with effect from the Academic Year 2022-2023

Teaching-Learning Methodology	This course shall be taught/learnt with the help of lectures, in-class discussions, students' writing assignments, class presentations, seminar presentations, sharing and accessing online resources, observation and reporting of local, sub-national and national economic issues in the class.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, student should be able to :	
1.	Express the theories of public expenditure and reproduce the classification and trends of public expenditure in India
2.	Evaluate the theoretical rationale of public debt and inspect the policy measures regarding public debt in India
3.	Scrutinize the federal financial structure and demonstrate the characteristics of the Indian federal financial structure
4.	Substantiate the experiences and arguments regarding major taxes of the government of India and reforms therein from time to time

Suggested References:	
Sr. No.	References
1.	Bagchi; Amresh; Bajaj; J.C. and Byrd, W. A (1992), States Finance in India, Vikas Publishing House.
2.	Chelliah, Raja (1997) Tax Reforms Committee-Final Report, Govt. of India, Ministry of Finance.
3.	Goode, R.(1996) Government Finance in Developing Countries, Tata Mc Grave . Hill, New Delhi.
4.	Govt. of India, Ministry of Finance, An Economic and Functional Classification of Central Govt Budgets.
5.	Govt. of India, Economic Surveys of different years.
6.	Govt. of India, Speeches of Union Finance Ministers, Ministry of Finance.



SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
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Syllabus with effect from the Academic Year 2022-2023

7.	Prasad, R.C (1987) Agricultural Taxation and Economic Development, Deep and Deep Publications.
8.	Sury, M.M. (2000) fiscal policy Developments in India: 1950-2000 Indian Tax Institute
9.	R.V. Shastri, R.C. Joshi, K.J. Munshi, M.V. Joshi, (1993-94), Rashtriya Artha Vidhan, Popular Prakashan, Surat.
10.	Trivedi Ravishankar (anuvadak) (1978) Musgrave, Richard A, Jaher Arthvidhanna Siddhanto, University Granth Nirman Board.

On-line resources

www.niti.gov.in
www.finmin.nic.in
www.rbi.org.in
www.mospi.gov.in
www.cso.ie



MA (Economics) Semester IV

Course Code	PA04CECO53	Title of the Course	International Economics - II
Total Credits of the Course	5	Hours per Week	5

Course Objectives / Purpose:	<ul style="list-style-type: none">The objective of this course is to equip students with the knowledge of the concepts related to international economic transactions involving foreign exchange, a systematic record-keeping and analysis of the international economic transactions in the form of Balance of Payment, Trade barriers, and international policy initiatives to resolve issues related to international trade.The course also aims to familiarise students with latest developments in international trade related to regional trade blocks and the role of Multi-national corporations in the contemporary times.
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Course outline		
Unit	Unit Description	Weightage
1.	Balance of Payment: Meaning, concept, structure of BOP by IMF, Trend of Composition and Direction of India's BOP, Equilibrium and disequilibrium in Balance of Payment, Adjustment mechanism: Automatic & Policy mechanisms, Mundell model, Marshall-Lerner condition (Elasticity approach) and 'J curve effect', Foreign trade multiplier (Income adjustment) – with foreign repercussions	25%
2.	Foreign exchange market, Rate of exchange and changes in exchange rate, Spot and Forward Exchange markets: Hedging, Speculation and Arbitrage, Exchange rate determination theories: BOP theory and Purchasing power parity theory, Fluctuations in exchange rate and its causes, Fixed and Flexible exchange rate: cases in favour and against, Adjustable peg, crawling peg, float system, Multiple exchange rate	25%
3.	Free trade v/s protectionist / restricted trade, Obstacles to trade: Natural and man-made: Tariff and non-tariff barriers to trade, Types of Tariffs and quotas, Tariff v/s quota, Effects of tariffs (Partial and General equilibrium of tariff) and effects of quota, Optimum Tariff rate, Retaliation, Dumping Role of international institutions like UNCTAD, GATT to WTO – GATS, TRIPS, TRIMS, IMF and IBRD in facilitating international trade	25%
4.	International economic integration and its types, Theory of Customs Union: Partial equilibrium (Trade Creation & Trade diversion) and General equilibrium: Lipsey model and Vanek model Existing Regional trade blocks: members, scope of activities, European Union- European Monetary system	25%



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Teaching-Learning Environment	The course would be taught/learnt through various means like lectures, discussions, writing assignments, viva-voce, seminars presentations, browsing online-resources relevant to the content, participating in co-curricular, extra-curricular activities.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance, Participation in co-curricular and extra-curricular activities	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, student should be able to :	
1.	Categorise and analyse the implications of international financial transactions for a nation.
2.	Explain how a foreign exchange market works and the impact of monetary and fiscal policy of a nation in foreign exchange market
3.	Assess the impact of various restrictive or free trade policies adopted by countries
4.	Critically appreciate the role and functions of international institutions like WTO, IMF and IBRD in terms of their contribution to international trade historically and in contemporary times
5.	Discuss the impact of regional economic groupings and multi-national corporations on various nations' welfare and their distributional effects

Suggested References:	
Sr. No.	Reference Books / Research papers / Reports / Any reference material used for teaching / learning the content in the course outline
1.	Krugman, Paul; Obstfeld, Maurice and Melitz, Marc (2017). International Economics: Theory and Policy. 10 th Edition, Pearson Education. ISBN-10 : : 13-NBSI ,9332586551 9332586550-978
2.	Bo SOdestern, and Geoffrey Reed (1994) International Economics. 3 rd Edition, Palgrave Macmillan. ISBN-10 :: 13-NBSI ,0333612167 0333612163-978
3.	Mannur, H.G. (2018) International Economics. 2 nd revised edition, Vikas Publishing House. ISBN-10 : : 13-NBSI ,07069958640706995862-978
4.	Mithani, D.M. (2015). International Economics. Seventh Edition, Himalaya Publishing House Pvt. Ltd. ISBN-10 : : 13-NBSI ,9352024486 9352024483-978
5.	Jhingan, M.L. (2016). International Economics. Seventh Edition, Vrinda Publications Pvt. Ltd., Delhi. ISBN-10 : : 13-NBSI ,8182815649 8182815643-978

On-line resources websites of UNCTAD, IBRD, IMF, WTO,
https://www.wto.org/english/tratop_e/region_e/region_e.htm



MA (Economics) Semester IV

Course Code	PA04EECO51	Title of the Course	Human Development
Total Credits of the Course	5	Hours per Week	5

Course Objectives / Purpose:	<ul style="list-style-type: none">• The objective of this course is to acquaint students about various determinants of human development including education, health, income, gender equality and sustainable development.• It also aims to inculcate the ability to critically appreciate the performance of India in factors affecting human development in India.
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Course outline		
Unit	Unit Description	Weightage
1.	Evolution of the concept of Human Development, Computing Human Development Index (HDI), Performance of India in HDI, Interstate comparison of HDI among Indian states (State Human Development Reports), Importance of Income for human development	25%
2.	Education and Human Development, Importance of Education for human development, Literacy in India, Adult education in India, Financing of education in India, Access and equity challenges in education in India, Policy initiatives related to education in India	25%
3.	Health and Human Development, Importance of health for human development, Health indicators in India, Policy initiatives related to health in India	25%
4.	Gender and Human Development, Importance of Gender equality for achieving human development, Gender Development Index (GDI) and Gender Inequality Index (GII) calculation, GDI and GII in India, Gender disparities in education, health, economic opportunities and political participation in India, Gender budgeting in India	25%

Teaching-Learning Environment	The course would be taught/learnt through various means like lectures, discussions, writing assignments, viva-voce, seminars presentations, browsing online-resources relevant to the content, participating in co-curricular, extra-curricular activities.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance, Participation in co-curricular and extra-curricular activities	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, student would be able to :	
1.	Compute, compare and analyse human development index using given parameters
2.	Describe the status of various attributes related to education, health and gender in India
3.	Analyse and compare the status of human development in various states
Suggested References:	
Sr. No.	Reference Books / Research papers / Reports / Any reference material used for teaching / learning the content in the course outline
1.	United Nations Development Programme, Human Development Reports: 1990-latest issue, Oxford University Press, New York
2.	Desai, Meghnad, 1991, 'Human Development: Concepts and Measurement', European Economic Review, 35(2&3)
3.	Haq, Mahbub ul, 1995, Reflections on Human Development, Oxford University Press, New York
4.	Romer, Paul M, 1990, 'Human Capital and Growth: Theory and Evidence', Carnegie-Rochester Series on Public Policy, 32
5.	Government of India, National HDR 2001, Planning Commission, New Delhi
On-line resources: http://hdr.undp.org/ , http://www.niti.gov.in/human-development , https://ihds.umd.edu/	



MA (Economics) Semester – IV

Course Code	PA04EECO52	Title of the Course	Economics of Livestock Farming
Total Credits of the Course	5	Hours per Week	5

Course Objectives / Purpose:	<ul style="list-style-type: none">• To introduce the livestock sector.• To analyse the measure to promote the livestock sector.• To make aware the students about the contribution of Milk cooperatives in rural development.• To Familiarise the students with the real situation of the livestock farming.
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Course outline

Unit	Unit Description	Weightage
1.	Introduction to the livestock sector – International, National and State-level Contribution of Livestock Sector in Economic development – Experiences of National, State and local level. Livestock sector policy in India	25%
2.	Factors affecting livestock development – Measures for promotion of livestock – Threats to livestock development in Gujarat – Suggestions for development of Livestock Sector	25%
3.	Dairy Cooperatives – Development of Milk Cooperatives in Gujarat and India - Dairy development during five-year plans and its achievements, drawbacks and future lessons	25%
4.	Livestock Farming recommendations, practices and local level experiences – Case Studies of successful livestock farming and common grazing land	25%

Teaching-Learning Environment	The course would be taught/learnt through various means like lectures, discussions, writing assignments, viva-voce, seminars presentations, browsing online-resources relevant to the content, participating in co-curricular, extra-curricular activities.
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Evaluation Pattern

Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance, Participation in co-curricular and extra-curricular activities	15%
3.	University Examination	70%



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Course Outcomes: Having completed this course, student should be able to :

1.	Establish the relationship between livestock farming and livelihood.
2.	Understand the opportunities in livestock farming.
3.	Setup the livestock farm.

Suggested References:

Sr. No.	Reference Books / Research papers / Reports / Any reference material used for teaching / learning the content in the course outline
1.	Shukal, K. C. (1973), Vyavharu Gopalan, Ahmedabad: University Granth Nirman Board, Gujarat State
2.	Trivedi, H. P. (1996), "Milk Cooperative in India- Some Major Issues", in Arth-Vikas, Vol-32, No.- 2, July-December, Vallabh Vidyanagar: Department of Economics, S. P. University
3.	Vaidyanathan, A. (1992), Issues in Animal Husbandry and Dairying, in Dairy India, published by P. R. Gupta, New Delhi
4.	Savani A. V.; P. K. Shah & Bhavna Joshi, Dairy Farmno Bomiyo, Published by Rural Development Section, Gujarat State and AMUL, Anand
5.	Government of India: Various Five-Year Plans, Planning Commission, New Delhi



MA (Economics) Semester – IV

Course Code	PA04EECO53	Title of the Course	Basics of Computers for Economics
Total Credits of the Course	5	Hours per Week	7

Total 5 credits:
(a) **Classroom Teaching -3 credits**
(b) **Practical - 2 credits**

Course Objectives / Purpose:	<ul style="list-style-type: none">• To give an introduction of computer hardware and software.• To familiarize the students with word processor.• To explain the various components of spreadsheet.• To introduce the presentation tools.• To explain the networking of computers.
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Course outline		
Unit	Unit Description	Weightage*
1.	Introduction To Computer: What is Computer?- History of Computers, Characteristics of Computer System, Basic Applications of Computer, Components of Computer System, CPU, Input and Output devices, Computer Memory; Hardware and Software – Concepts, Application Software, Systems software, Multimedia and Entertainment, Basics of Operating System, popular operating systems- introduction of user interface and its functioning	25%
2.	Word Processing: Word Processing Basics, Opening Word Processing Package, Menu Bar, Using The Help, Using The Icons Below Menu Bar, Opening and closing Documents, Opening Documents, Save and Save as, Page Setup, Print Preview, Printing of Documents, Text Creation and manipulation, Document Creation, Editing Text, Text Selection, Cut, Copy and Paste, Font and Size selection, Alignment of Text, Formatting the Text, Paragraph Indenting, Bullets and Numbering, Changing case, Table Manipulation, Draw Table, Changing cell width and height, Alignment of Text in cell, Delete / Insertion of row and column, Border and shading	25%
3.	Spread Sheet : Elements of Electronic Spread Sheet, Opening of Spread Sheet, Addressing of Cells, Printing of Spread Sheet, Saving Workbooks, Manipulation of Cells, Entering Text, Numbers and Dates, Creating Text, Number and Date Series, Editing Worksheet Data, Inserting and Deleting Rows, Column, Changing Cell Height and Width, Function and Charts, Using Formulas	25%



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4.	<p>Presentation: Basics, Using PowerPoint, Opening A PowerPoint Presentation, Saving A Presentation, Creation of Presentation, Creating a Presentation Using a Template, Creating a Blank Presentation, Entering and Editing Text, Inserting And Deleting Slides in a Presentation, Preparation of Slides, Inserting Word Table or An Excel Worksheet, Adding Clip Art Pictures, Inserting Other Objects, Resizing and Scaling an Object, Providing Aesthetics, Enhancing Text Presentation, Working with Color and Line Style, Adding Movie and Sound, Adding Headers and Footers, Presentation of Slides, Viewing A Presentation, Choosing a Set Up for Presentation, Printing Slides and Handouts, Slide Show, Running a Slide Show, Transition and Slide Timings, Automating a Slide Show</p> <p>Computer Communication and Internet: Basics of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN), Internet, Concept of Internet, World Wide Web and Websites, Communication on Internet</p>	25%
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Evaluation Pattern

Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance, Participation in co- curricular and extra-curricular activities	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, student should be able to :

1.	Narrate the evolution and working of computer.
2.	Use word processor for preparing a document.
3.	Use of spreadsheet for preparing the database.
4.	Prepare computer enabled / assisted presentation.
5.	Understand the networking of computer.

Suggested References:

Sr. No.	Reference Books / Research papers / Reports / Any reference material used for teaching / learning the content in the course outline
1.	French C.S. (1998), "Data Processing and Information Technology", BPB Publications
2.	Sinha P.K (1992), "Computer Fundamentals", BPB Publications
3.	Davis G. H. (1998) "The ABCs of Microsoft Office 97 Professional edition", BPB Publications
4.	Schwartz K. (1998), "Microsoft Windows 98 Training Guide"
5.	Gupta V. (2007), "Comdex Computer Course Kit" Comdex
6.	Rajaraman (2003), "Fundamentals of Computers", PHI Publication, New Delhi



MA (Economics) Semester IV

Course Code	PA04EECO54	Title of the Course	Indian Economy
Total Credits of the Course	5	Hours per Week	5

Course Objectives / Purpose:	<ul style="list-style-type: none">• To appraise the students about macroeconomic trends in important macroeconomic variables of the Indian economy• To explain the causes for inflation in India, its measurement and its relationship with unemployment in the economy• To examine the pattern of industrialization in India and its various issues• To examine the agricultural growth in India and its outlook in view of globalization
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Unit	Description	Weightage
1.	Economic Development and Population Growth Theory of Demographic Transition - The Micro Economic Theory of Fertility, Population Growth and Economic Development, National Population Policy of India	25%
2.	National Income, Savings and Capital Formation in India Income Inequalities in India, National Income and population Nature, causes and measures to combat inflation in India, unemployment and inflation, stagflation in the Indian economy, WPI, CPI, MPCCE	25%
3.	Industrialization: Trends in growth and pattern of industrialization in India, problems of industrial sector, industrial disputes, industrial pollution Privatization, globalization and Indian industry, Current Industrial policy	25%
4.	Indian Agriculture: Land Reforms, Trends in crop pattern, productivity, availability and use of agricultural inputs, Indian agriculture and globalization, Current Agricultural Policy	25%

Teaching-Learning Methodology	This course shall be taught/learnt with the help of lectures, in-class discussions, students' writing assignments, class presentations, seminar presentations, sharing and accessing online resources, observation and reporting of local, sub-national and national environmental issues in the class.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%



Course Outcome: Having completed this course, the student will be able to :	
1.	Understand and interpret the various macroeconomic data concerning the Indian economy and identify their interrelationships
2.	Articulate the causes for inflation in India, explain various indices for the measurement of inflation and explain the relationship between unemployment and inflation
3.	Understand the pattern of industrialization in India appreciate the various issues plaguing it.
4.	Explain the trends of agricultural growth in India and examine it with reference to globalization of agriculture

Suggested References:	
Sr. No.	References
1.	A.N. Agrawal, 'Indian Economy: Problems of Development and Planning', New Age International Publishers, revised 33 rd Edition, 2007
2.	Datt and Sundharam, Indian Economy, 70 th revised Edition, Gaurav Datt and Ashwani Mahajan, S.Chand and Co.Pvt.Ltd., New Delhi, 2015
3.	Ramesh Singh, ' Indian Economy for Civil Services Examination', McGraw Hill Education, 7 TH Edition, 2015
4.	Abdul Sabahuddin and Rajshree Shukla, 'History of Modern Indian Economy', Global Vision Publishing House, New Delhi, 2 nd edition, 2019
5.	Kapila U., (2006-07), Indian Economy Since Independence, New Delhi: Academic Foundation
6.	Reserve Bank of India, Various Issues of ' Report of the All India Rural Credit Review Committee'.
7.	Tara Shukla : Capital formation in Indian Agriculture .
8.	Tara Shukla (Ed. by) : "Economics of Underdeveloped Agriculture."
9.	M. Khusro (Ed. by) : " Readings in Agricultural Development"
10.	Vadilal Dagli (Ed. by) : "Foundation of Indian Agriculture"
11.	Annual Report of Currency and Finance, Reserve Bank of India, Various Issues
12.	Monthly Journal of Agricultural Situation in India, Various Issues
13.	Special issue on Review of Agriculture published quarterly in the weekly journal Economic and Political Weekly, Various Issues
14.	Quarterly Journal - Indian Journal of Agricultural Economics, Various Issues
On-line resources	
www.rbi.org.in , https://agricoop.gov.in/ , https://commerce.gov.in/	



MA (Economics) Semester IV

Course Code	PA04EECO55	Title of the Course	Environmental Protection in India
Total Credits of the Course	5	Hours per Week	5

Course Objectives / Purpose:	<ul style="list-style-type: none">• To explain the difference between household consumption demand and environmental pollution• To examine the relationship between industrial development and environmental pollution• To examine the relationship between agricultural activities and environmental degradation• To examine the relationship between service delivery and generation of environmental waste
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Unit	Description	Weightage
1.	Importance of environmental protection Harmful impact of environmental pollution on human life and economy; Need for environmental protection; role of human being in environmental pollution, lifestyle, production, consumption, pattern of resource use, eco-friendly products, usage, practices, attitudes towards the environment; Society and environmental protection; Socio-cultural traditions, festivals, celebrations; religious beliefs and practices and their impact on environmental pollution in India; measures and prospects to make these practices eco-friendly and promote environmental protection in Indian society	25%
2.	Agriculture and environmental protection Sources and activities leading to pollution in Indian agriculture; use of land, fertilizers, irrigation, pesticides, mechanization, fuel; alternative measures and prospects to reduce pollution; measures and prospects to promote environmental protection in Indian agriculture	25%
3.	Industry and environmental protection Sources and activities causing industrial pollution in India; alternative measures and prospects to reduce and avoid pollution; methods of waste purification and management, technology, machinery, alternative fuels, measures and prospects to promote environmental protection in Indian industry	25%
4.	Services and environmental protection Sources and activities causing pollution in the service sector in India; health, transport, hospitality, information and communication, education, entertainment; alternative measures and prospects to promote environmental protection in Indian service sector	25%



SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)
Syllabus with effect from the Academic Year 2022-2023

Teaching-Learning Methodology	This course shall be taught/learned with the help of lectures, in-class discussions, students' writing assignments, class presentations, seminar presentations, sharing and accessing online resources, observation and reporting of local, sub-national and national environmental issues in the class.
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Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcome: Having completed this course, the student will be able to	
1.	To establish a connection between household consumption demand and environmental pollution
2.	To construct a relationship between industrial development and environmental pollution
3.	To understand the relationship between agricultural activities and environmental degradation
4.	To distinguish various services that are responsible for the generation of environmental waste

Sr. No.	Suggested References:
1.	Asian Development Bank (ADB) (2000). India: Mainstreaming Environment for Sustainable Development.
2.	Bhattacharya, R.N. (Ed.) (2001). Environmental Economics: An Indian Perspective, Oxford University Press.
3.	Baumol, W.J. and W.E. Oates (1988). The Theory of Environmental Policy, Cambridge University Press.
4.	Bromley, Daniel W. (Ed.) (1995). Handbook of Environmental Economics, Blackwell Publishers.
5.	Callan, S.J. and J.M. Thomas (2000). Environmental Economics and Management: Theory, Policy and Applications.
6.	Dixon, J.A. et al. (1994). Economic Analysis of Environmental Impacts. Earthscan Publications Ltd., London.
7.	Field, Barry C. and Martha Field (2002). Environmental Economics: An Introduction (3 rd ed.). McGraw-Hill Irwin.
8.	GoI (1999). Economic Survey-1998-99: Promoting Sustainable Development: Challenges for Environment Policy, New Delhi.



SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25))
Syllabus with effect from the Academic Year 2022-2023

9.	Hanley, N. et al. (2001). Introduction to Environmental Economics, Oxford University Press, New York.
10.	Khakhhar, K.K., “ <i>Paryavaraniya Arthashastrana Payana Siddhanto</i> ”, (2004), Adarsh Printing Press, Rajkot.
11.	Tietenberg, Tom (2001). Environmental Economics and Policy, Addison-Wesley.

On-line resources

www.unep.org
www.agricoop.nic.in
www.moef.nic.in
www.greentribunal.gov.in
www.nabard.org
www.cpcb.nic.in



MA (Economics) Semester – IV

Course Code	PA04EECO56	Title of the Course	Fundamentals of Research Methodology in Economics
Total Credits of the Course	5	Hours per Week	5

Course Objectives / Purpose:	<ul style="list-style-type: none">• To make the students aware about various kinds of research.• To create the ability among student to identify the research problem and methodology.• To inculcate skills and knowledge to undertake the qualitative research.
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Course outline		
Unit	Unit Description	Weightage*
1.	Meaning and significance of Research- Definition, Characteristics, Classification; Social Research- Types, Motivations, Factors, Basic Assumptions; Importance of Social Research, Problems encountered by Researcher - Phases of Social Research: Selection of a Research Problem, Precautions to be undertaken, Formulation of a Research Problem: Statement of a Research Problem, Objectives, Definitions and Indicators, Review of Literature	25%
2.	Qualitative research in social sciences: Introduction, Difference between qualitative and quantitative research, Methods of qualitative research and their limitations: Focussed Group Discussions, Interviews, Case study method, Ethical issues in Qualitative research. Data analysis in qualitative research	25%
3.	Nature and Sources of Data- Primary and Secondary Data; Census and Sample Methods, Sampling Techniques, Data for Research: Methods of Primary and Secondary Data Collection, Precautions to be Taken while Collecting Data, Limitations, Data Processing- Editing, Coding, Classification, Tabulation, Analysis and interpretation	25%
4.	Usages of Basic Statics in Research- Measures of Central Tendency, Dispersion, Correlation and Regression- Hypothesis and Testing of Hypothesis: Concept of Hypothesis, Significance of Hypothesis, Types, Concept of Significance Level and Confidence Level, Testing of Hypothesis	25%

Teaching-Learning Environment	The course would be taught/learnt through various means like lectures, practical, discussions, writing assignments, viva-voce, seminars presentations, browsing online-resources relevant to the content, participating in co-curricular, extra-curricular activities.
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SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25))
Syllabus with effect from the Academic Year 2022-2023

Evaluation Pattern		
Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written / Practical Examination	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes, Seminars, Assignments, Attendance, Participation in co- curricular and extra-curricular activities	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, student should be able to :	
1.	Distinguish between qualitative and quantitative research.
2.	Identify the research problem and construct the research statement.
3.	Use internet in data collection and exploration of research.

Suggested References:	
Sr. No.	Reference Books / Research papers / Reports / Any reference material used for teaching / learning the content in the course outline
1.	Kothari C.R. (2009), "Research Methodology- Methods and Techniques", New Age International Publishers, New Delhi
2.	Joshi K. (1984), "Econometrics", Viral Prakashan, Ahmedabad
3.	Raiyani J. R. (2012), "Research Methodology- Theory and Techniques", New Century Publications, New Delhi
4.	Verma R. K. & Verma G. (1989), "Research Methodology", Commonwealth Publishers, New Delhi
5.	Denzin, N. K.; Lincoln, Y. S. (2018), "The Sage Handbook of Qualitative Research", Sage,



MA (Economics) Semester – IV

Course Code	PA04EECO57	Title of the Course	Project Work
Total Credits of the Course	5	Hours per Week	7

Course Objectives	<ul style="list-style-type: none">To help the student develop ability to apply multi- disciplinary concepts, tools and techniques to analyse and logically approach the Economic problems.
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Course outline		
Unit	Unit Description	Weightage*
	<p>Project Report (The Project Report would be based on research work undertaken)</p> <p>The Project Report would contain:</p> <ul style="list-style-type: none">Cover Page – must have the Name and Enrolment No. of the Student and the Name of the Guide, along with the Title of the Project.Detailed table of contents with page nos.All pages of the Project Report must be numbered as reflected in the table of contents.Certificate of originality- duly signed by the student and the guide with dates. Introduction to the Project and Review of Literature along with brief details of the organisation/s under study.RationaleStatement of problemObjectives of the ProjectScope of the studyResearch Methodology:Research DesignNature and Source of data/information collectedSample and Sampling method with rationaleDetails of the tools:<ul style="list-style-type: none">The Questionnaire and other methods used and their purposeReliability and Validity of the tools usedAdministration of tools and techniquesData collectionData AnalysisData Interpretation and FindingsRecommendationsSummary and ConclusionLimitations of the StudyDirection for further research (optional)Reference/BibliographyAnnexures/Appendices (Questionnaire used etc.)	100%



SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)
Syllabus with effect from the Academic Year 2022-2023

Teaching-Learning Environment	The course would be taught/learned through various means like lectures, discussions, writing assignments, viva-voce, seminars presentations, browsing online-resources relevant to the content, participating in co-curricular, extra-curricular activities.
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Evaluation Pattern: Internal assessment carries 30 percent weightage and External assessment carries 70 percent weightage. External evaluation will be done by the respective supervisor and appointed external examiner. External evaluation of the submitted Project work for 70 percent carries equal weightage of 50 % each for project work and viva-voce. External referee will be appointed from faculties of department (besides respective guide) / faculties from other relevant departments or research centers of Sardar Patel University or other universities / industry practitioners / NGOs / Government officers / whoever deemed fit for evaluation work considering the theme of the project work.

Course Outcomes: Having completed this course, student should be able to :	
1.	Conduct research work.
2.	Understand the real economic conditions.
3.	Establish relationship between Economic theories with real economic problems.
4.	Find out the solutions of economic problems.

Suggested References:	
Sr. No.	Reference Books / Research papers / Reports / Any reference material used for teaching / learning the content in the course outline
1.	Kothari C.R. (2009), "Research Methodology- Methods and Techniques", New Age International Publishers, New Delhi
2.	Joshi K. (1984), "Econometrics", Viral Prakashan, Ahmedabad
3.	Raiyani J. R. (2012), "Research Methodology- Theory and Techniques", New Century Publications, New Delhi
4.	Verma R. K. & Verma G. (1989), "Research Methodology", Commonwealth Publishers, New Delhi
5.	Gupta S C; Fundamental of Applied Statistics. S. Chand & Sons, New Delhi.
6.	Grewal P S; Numerical Methods of Statistical Analysis, S P Pvt. Ltd., New Delhi.
7.	Bose D.; An Introduction to Mathematical Economics, H P H. Bombay, Delhi.
8.	Gupta C.B.; An Introduction to Statistical Methods, Delhi.
9.	Patel R.K. & Patel L.B.; Business Statistic, C. Jamanadas Co. Ahmedabad.
10.	Patel Balubhai; Dhandhakiya Ankadashastra, Uni. Granthnirman Board, Ahmedabad.
11.	Zala M.L.; Arthshastrama Ganitshastra, Purbiti Prakashan, Vallabh Vidyanagar.



SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.25))
Syllabus with effect from the Academic Year 2022-2023

12.	Jaiswal M.C.; Arthvishayak Ankadashastra, Uni. Granthnirman Board, Ahmedabad.
13.	Sir Claus Moser & G. Kalton; Survey Methods on Social Investigation.
14.	Goode W.J. & Hatt P.K. - Methods in Social Research
15.	Gaitung J. - Theory and Methods of Social Research
16.	Cochran W.G. - Sampling Techniques
17.	Glock C.Y., - Survey Research in Social Science