Gokhale Institute of Politics and Economics and YASHADA

M.Sc in Public Policy (MPP)

Course Curriculum (2023-2025)

Preamble

M.Sc. in Public Policy (MPP)

M.Sc. in Public Policy (MPP) program, a new program from the academic year 2023-24, is a two-year full-time post-graduate programme. This programme offers theoretical and practical knowledge in Public Policy. It offers an opportunity in understanding problems in public policy framing, and conducting robust, applied and impactful study that influences public policy. This programme will give the students a keen understanding of theoretical issues in public policy, and its relationship with empirical research evidences that significantly influences the public policy process, such as ideologies and institutions. Students in this programme will be able to design research problems, and undertake a range of policy-relevant studies, and conduct research to the highest standards. This programme offers versatile skills that will be very useful to policymakers, researchers, and academicians. In this programme the students are exposed to Soft skill development: presentation and communication (oral and written) , impact of public policy on primary, secondary and tertiary sectors in select advanced and emerging market and project management. In the end the students are required to present assignments on the case study writing on impact analysis of public policy, evidence-based policy evaluation, project assignment , field work, dissertation. It is thus a distinct programme from other M.Sc. programmes.

Course Structure: Overview

Total Number of Credit – 80 (1200 Hrs)

Semester 1 (20 Credit - 300 Hrs)

1. Fundamentals of Public Policy
2. Quantitative, Qualitative and Research Methods
3. Microeconomics and Public Policy
4. Macroeconomics Theory and Practice
5. Public Policy: Theory and Applications

Semester 2 (20 Credit - 300 Hrs)

1. Public Policy: Process, Implementation and Evaluation
2. Data Analysis: Management, Visualization and Evaluation
3. Public Economics and Development Economics
4. Money, Banking, Trade and Financial Markets
5. Overview of Primary, Secondary and Tertiary Sectors: Theory and Practice

Semester 3 (20 Credit - 300 Hrs)

1. Data Analysis: Experimental and Non-Experimental Data
2. Research Methodology: Techniques and Design
3. Soft Skill Development: Presentation and Communication (Oral and Written)
4. Impact of Public Policy on Primary, Secondary and Tertiary Sectors Country Experiences: Select Advanced and Emerging Markets
5. Project Management

Semester 4 (20 Credit – 300 Hrs)

1. Case Study Writing on Impact Analysis of Public Policy
2. Evidence-based Policy Evaluation
3. Project Assignment
4. Field Work
5. Dissertation

Semester 1

Course 1 : Fundamentals of Public Policy (50 + 10 = 60 Hrs) 4 Credit

Module 1: Introduction to Public Policy – 6 Hrs   .

  i.   Background, Meaning and Importance of Public Policy Basic concepts: Government, Politics, Policy Analysis
  ii.   Principles of Public Policy : Moral coherent , Ethics, Economics, and Politics.
  iii. Ability to participate and influence decisions.
  iv.   Scope of Public Policy
  v.   Lags in Public Policy

Module 2: Public Policy, Social Science and State - 12 Hrs

  i.   The theoreotical tradition

  ii.   The demand for empirical social knowledge

  iii. State, Profession and transformation

  iv.   Two sides of Quality of Intellect : a) Transforamtion of epistemic constellation, and, b)

        Phronesis (Pratical Wisdom)

  v.   The crisis of useful knowledge: Critique, Retreat, Refinment

  vi.   Why do social scicences matter ? Why does social science inquiry fails ? How can it succeed again ?

Module 3: Policy Process 12 Hrs

  i. Constitutional Framework, The Union & Its Territories, Citizenship, Fundamental Rights, Directive

     Principles of State Policy, Fundamental Duties.

  ii. System of Government, Parliamentary System, Federal System, Center-state Relations, Inter-state

      Relations. Relationship between state, judiciary and civil society.

  iii. Non-constitutional Bodies, their importance and relation to policy making.

  iv. The theories of policy cycle

  v. Policy formulation design and tools

Module 4 : Policy decision making : Rationality and learning 10 Hrs

  i.   Rationality in policy decision making
  ii.   Implicit concepts of rationality in Poilicy descision making (Alturism, Bounded Rationality)
  iii. Rational Choice in Public policy.
  iv.   Theories of public policy learning.

Module 5 : Constraints on Public Policy 10 Hrs

  i. Economic constraints on public policy

  ii. Political constraints on public policy

  iii. Institutional constraints on public policy

  iv. Social constraint on public policy

Evaluation pattern

- **Quizes – 10 marks**
- **Mid-term – 15 marks**
- **Assignment – 15 marks**
- **End Semester Exam – 60 marks**

Course 2: Quantitative and Qualitative Research Methods

(50 + 10 = 60 Hrs) 4 Credit

Module 1 : Research Methods 6 Hrs

   i.   Research Methodology and Research Design
  ii.   Scientific conduct, Research Integrity, transparency and
 iii.   Research Ethics and publication misconduct.

Module 2 : Basic Statistics – 32 Hrs

   i.   Fundamentals of Statistics, summary statistics, intuition behind probability and statistical analysis
  ii.   Probability theory and distribution
 iii.   Sampling techniques
 iv.   Survey data and administrative data
  v.   Financial calculations – PV, FV etc

Module 3 : Qualitative methods – 12 Hrs

   i.   Ethnographic studies – subjective vs objective understanding
  ii.   How to conduct interviews, collect field notes etc.
 iii.   Focus group discussion (FGD)
 iv.   Key informant interviewas (KIII)
  v.   In Depth Interview (IDI)
 vi.   Analysis of qualitative data.

Evaluation pattern

- **Quizes – 10 marks**
- **Mid-term – 15 marks**
- **Assignment – 15 marks**
- **End Semester Exam – 60 marks**

Course 3: Microeconomics and Public Policy (50 + 10 = 60 Hrs) 4 Credit

Module 1: Introduction to Economics – 2 Hrs

i.   Basic principles - tradeoffs, opportunity cost, thinking at margin, incentives. Market as an efficient way of organizing society – allocation and distribution.

Module 2: Consumer Theory – 16 Hrs

i.   Consumer preferences – properties, relations
ii.   Representation of preferences – Indifference curves, utility function..
iii. Budget constraint – varieties of budget constraints, shifts in budget line, Intertemporal budget constraint.
iv.   Utility maximization subject to budget constraint.
v.   Demand function – comparative statics, substitution and income effects, elasticity, market demand curve.
vi.   Supply of labour: labour-leisure choice.
vii. Application : Minimum Support Pirce (MPS), Drug Prices, Oil price

Module 3: Theory of Firm – 12 Hrs

i.   Production function - inputs, output. Total, average and marginal cost. Marginal Product and average product.
ii.   Profit function. Profit maximization and cost minimization in the long run and short run. Returns to scale.
iii. Supply function, industry supply function.
iv.   Demand for labour – labour markets.
v.   Application : Minining, Minimum wage, Impact of public policy on input prices.

Module 4: Theory of Markets – 18 Hrs

i.   Partial equilibrium analysis. Perfect competition – characteristics. Shot run and long run industry supply. Equilibrium quantity and price. Consumer's and producer's surplus. Effects of per unit tax and subsidies.
ii.   Monopoly – characteristics. Monopoly power. Comparing perfect competition and monopoly - deadweight loss from monopoly. Price discrimination. Equilibrium price and output. Monopolistic competition – characteristics.
iii. Oligopoly – characteristics. Cournot competition, Bertrand competition – comparison with perfect competition and monopoly. Collusion. Homogenous and differentiated goods case.
iv.   Introductory game theory – examples from imperfect markets.
v.   Market failures and the problem of distribution - role of government. Welfare considerations. Government - regulator of the markets. Missing markets, inefficient markets, information asymmetry. Market signaling. Externalities – examples and solutions – taxes, property rights.
vi.   Application : Health care market.

Module 5: Information Economics – 2 Hrs

i.   Adverse selection - Market for lemons. Moral Hazard. Principle-agent problem. Asymmetric information.

Evaluation pattern

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- **End Semester Exam – 60 marks**

Course 4 : Macroeconomic Theory and Practice (50 + 10 = 60 Hrs) 4 Credit

Module 1: Key concepts and Macreocnomic indicators ; Measurement and analysis interlinking to public policy – 10 Hrs

   i.   Economic growth, Inflation and unemployement
   ii. Discussion of above concepts in the context of advanced and emerging market economies
   iii. Macroeconomic identity

Module 2: Management of Business cycle through AS-AD Model – 10 Hrs

   i.   Components of Aggregate Demand, Shifts in Aggregate Demad,
   ii. Determinanats of Aggregate Supply
   iii. Potential Output and Output gap linking to Public Policy.
   iv. IS-LM model linking to Public Policy

Module 3: Open Economy and Business Cycles – 10 Hrs

   i.   Concept of open macroeconomy
   ii. Balance of payments framework
   iii. IS-LM-BP model – monetary and fiscal policy.

Module 4: Policy Intervention to address business cycle– 11 Hrs

   i.   Fiscal Policy and Monetary policy intervention to address business cycle.
   ii. Fisal and Monetary Policy co-ordination.

Module 5: Microfoundations of Macroeconomics – 9 Hrs

   i.   Behavioural Foundations, conscumption functions and investment function
   ii. Intertemporal Choice model, Permenent income hypotheis, life cycle hypothesis.
   iii. Rational expectations theory, Real Business cycle theory

Evaluation pattern

- **Quizes – 10 marks**
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- **Assignment – 15 marks**
- **End Semester Exam – 60 marks**

Course 5 : Public Policy: Theory and Applications (50 + 10 = 60 Hrs) 4 Credit

Module 1: Business environment, Market dynamics and Public Policy – 10 Hrs

i.   Introduction to interconnectedness of business environment, market dynamics and public policy.
ii. PESTLE (Political, Economic, Social, Technological, Legal, Environment) Model in the context of Public Policy
iii. Market risk and Market dynamics
iv. Public Policy as an intervention for correcting business cycle from demand and supply side.

Module 2 : Instruments of Public Policy - 8 Hrs

i.   Theory of Instruments of public policy such as public intervention, market intervention, behavioural interventions.
ii. Instruments of Public Policy: Regulation, Government Management, Taxing and Spending, Market Mechanism, Education, Information etc.
iii. Public Private Particiaption (PPP Model).

Module 3: Theories of Public Policy – 12 Hrs

i.   Elite Theory
ii.   Rational Choice Theory
iii. Political Systems Theory
iv.   Group Theory
v.   Institutional Theory

Module 4 : Extending design thinking to public policy – 10 Hrs

i.   Theorotical content and policy application of design thinking.
ii. Five stage model of design thinking
iii. Policy prototype and insighting process
iv. Extending Design thinking to public policy – Opportunities and challenges.

Module 5: Extending system thinking to public policy – 10 Hrs

i.   Theorotical content and policy application of system thinking
ii. Explaining causal loop in public policy
iii. Three H model (Head, Heart and Hand) in evaluating public policy.
iv. Extending system thinking to public policy – opportunities and challenges.

Evaluation pattern

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- **Assignment – 15 marks**
- **End Semester Exam – 60 marks**

Semester 2

Course 6 : Public Policy: Process, Implementation and Evaluation

(50 + 10 = 60 Hrs) 4 Credit

Module 1: Welfare Economics – 8 Hrs

i.   Fundamental theorems of welfare economics.
ii.   Pure exchange economy. Pareto efficiency – edgeworth box. Walrusian Equilibrium. (4 hrs)
iii.   Divergence between social and private welfare. Compensation principle.
iv.   Government-induced monopoly/monopsony situations and its significance in policy formulation.

Module 2: Policy Process Model and Policy Implementation – 12 Hrs

i.   Problem Definition and Agenda Setting
ii.   Policy Formulation $\rightarrow$ Legimitation $\rightarrow$ Implementation $\rightarrow$ Evaluation
iii.   Policy Implementation Architecture in India – Bureaucracy

   Public Administration, Bureaucracy, civil society and Interest mediation

iv.   Policy and regulatory institutions.

Module 3: Budget making process and analysis – 10 Hrs

i.   Process of budget making in Three layers of government.
ii.   Analysis of budget linking it to policy making.

Module 4 : Efficiency, Ethics and Effectiveness in Public Governance– 8 Hrs

i.   How to increase efficiency and effectiveness in Public governance.
ii.   Role of ethics in bringing about effectiveness in Public governance.
iii.   Role of ethics acting as a bridge between efficiency and effectiveness.

Module 5: Policy Evaluation – 12 Hrs

i.   Approaches, Steps and Nature of Policy Evaluation
ii.   Types of Policy Evaluation
iii.   Policy Lags: Inside and Outside Lags

Evaluation pattern

- **Quizes – 10 marks**
- **Mid-term – 15 marks**
- **Assignment – 15 marks**
- **End Semester Exam – 60 marks**

Course 7 : Data Analysis: Management, Visualization and Evaluation

(50 + 10 = 60 Hrs) 4 Credit

Module 1: Data Wrangling and Data Management – 14 Hrs

i.   Data Cleaning, Formatting and creating data simple templates.
ii.   Merging, appending and and reshaping data
iii. Introduction to Excel, Advanced Excel
iv.   Introduction to R and Python

Module 2: Data Visualization – 14 Hrs

i.   Visualization tools and techniques
ii.   Histogram, scatter plots
iii. Linear and non-linear relationships between two variables.

Module 3: Critical Analysis of Data – 12 Hrs

i.   Hypotheses framing and Testing
ii.   Correlation
iii. Continuous variable and dummy variable
iv.   Learning to Landscape data
v.   Analysis of Survey Data

Module 4: Basic Econometrics – 10 Hrs

i.   Regression analysis – bivariate vs multivariable regression
ii.   Dependent and independent variables
iii. Interpreting regression coefficients.
iv.   Ordinary Least Square regression

Evaluation pattern

- **Quizes – 10 marks**
- **Mid-term – 15 marks**
- **Assignment – 15 marks**
- **End Semester Exam – 60 marks**

Course 8: Public Economics and Development Economics

(50 + 10 = 60 Hrs) 4 Credits

Module 1: Public Economics – 12 Hrs

i.   Public sector and its role in terms of allocation, distribution and stabilization function.
ii. Public goods – definition and examples. Public goods and efficiency. Externalities, Provision of public goods – voting & public choice. Preference revelation.
iii. Social choice theory – Arrow's theorem, median voter model. Rent seeking and interest groups.
v.   Theory of Public Finance and Taxation. Efficiency vs equity. Incidence of taxation. Canons of taxation. Theories of optimal taxation. Taxation and economic efficiency. Issues in tax policy in India..
iv. Theory of fiscal federalism. Structure of fiscal federalism in India, principles governing intergovernmental transfers.
v.   Cost and Benefit Analysis - Measuring the Costs of Public Projects. Discounting Future Benefits. Cost-Effectiveness Analysis.

Module 2: Public Expenditure – 6 Hrs

i.   Theory of Public expenditure
ii. Management and control of public expenditure

Module 3: Growth and Development – 14 Hrs

i.   Economic growth models – Harrod-Domar, Solow – convergence of growth rates. Endogenous growth theory.
ii. Models of balanced and unbalanced growth. Dual economy models – migration, urban unemployment, informal sector.
iii. Measurement of social dimensions – physical quality of life index, Human development index, environmentally adjusted Net Domestic Product.

Module 4: Challenges to sustainable development – 12 Hrs

i.   Environment and government – common property resources. Environmental impact analysis in cost-benefit framework.

Module 5 : Overview of Indian Economic development – 6 Hrs

i.   Overview of Indian economy before liberalisation. Liberalisatiion of Indian economy – implementation and outcomes/performance.
ii. Poverty and inequality in India – statistics. Employment and unemployment. Labour markets.

Evaluation pattern

- **Quizes – 10 marks**
- **Mid-term – 15 marks**
- **Assignment – 15 marks**
- **End Semester Exam – 60 marks**

Course 9 : Money, Banking , Trade and Financial Markets
(50 + 10 = 60 Hrs) 4 Credit

Module 1: Introduction to Money, Banking and Financial market - 4 Hrs

    i. Why Study Money, Banking, and Financial Markets?
    ii. Evolution of the Payments System
    iii. Inter-linkages of money, Bankin and Financial Markets

Module 2: Supply of Money – 4 Hrs

    i.   Factors that determine the money supply
    ii.   Issues regarding endogenous and exogenous supply of money
    iii.   Central Bank Digital Currency

Module 3: Demand for money – 6 Hrs

    i. Qunatity theory of money
    ii. Keynes' Liquidity Preference Theory
    iii. Friedman's Modern Quantity Theory of Money
    iv. Empirical Evidence on the demand for money.

Module 4: Understanding the behaviour of interest rates – 8 Hrs

    i. Interest Rates and Returns and Real and Nominal Interest Rates
    ii. Determinants of Asset Demand
    iii. Supply and Demand in the Bond Market
    iv. Supply and Demand in the Market for Money
    v. Term Structure of Interest Rates

Module 5 : Banking structure and management of financial institutions– 8 Hrs

    i. Basic Banking
    ii. The Bank Balance Sheet
    iii.   Off-Balance-Sheet Activities
    iv.   General Principles of Bank Management- Liquidity, Asset, Liability and Capital Adequacy management
    v. Banking Structure and Competition

Module 6 : Overview of financial market : Money, Government securities and Forex 8 Hrs

    i.   Overview of money Market
    ii.   Overview of government securities Market
    iii.   Overview of forex market.
    iv.   Interlinkages of Money, Bond and Foreign Exchange Market

Module 7: Trade and policy 12 Hrs

    i.   Theories of trade - Absolute & comparative advantage – Gains from trade, offe curves, terms of trade. H-O theory – factor abundance & factor intensity, Leontief Paradox. Intra-industry trade.
    ii.   Supply and demand analysis of trade and tariff.
    iii.   Economics of protectionism.
    iv.   Trade policy – Tariffs & welfare, Non-tariff barriers. Regional trade agreements.

    v.   WTO and Multilateral trade negotiations.

Evaluation pattern

- **Quizes – 10 marks**
- **Mid-term – 15 marks**
- **Assignment – 15 marks**
- **End Semester Exam – 60 marks**

Course 10: Overview of Primary, Seconday and Tertiary Sectors: Theory and Practice

(50 + 10 = 60 Hrs) 4 Credit

Module 1: Sectors – 25 Hrs

i.   Social Security and Welfare Policy
ii.   Urban governenace
iii. Rural agriculture and food policy
iv.   Technology and Data policy

Module 2: Macro development Sectors – 25 Hrs

i.   Disaster Management
ii.   Water and Natural Resource Management
iii. Public Health
iv.   Industrial Development and Entrepreneurship

Evaluation pattern

- **Quizes – 10 marks**
- **Mid-term – 15 marks**
- **Assignment – 15 marks**
- **End Semester Exam – 60 marks**

Semester 3 (20 Credit – 300 Hrs)

Course 11 : Data Analysis: Experimental and Non-Experimental Data   (3-Credit) 50 Hrs

Module 1 : Program Evaluation using Experiments – 25 Hrs

  i.   Idea of treatment and control. Experimentation as a tool to learn policy effectiveness.
  ii. Collecting and managing data using statistical tools and software- Excel, R-programming and Stata

  iii. Basics of randomized evaluation, designing of an experiment, measuring of outcomes.
  iv. Treatment effects – average treatment effect, treatment effect on the treated (compliers)

Module 2: Program Evaluation using Non-Experimental Data – 20 Hrs

  i.   Correlation vs causation
  ii. Non-experimental data and program evaluation
  iii. Endogenous vs exogenous variation in variables
  iv. Difference-in-difference method
  v.   Event study analysis.

Course 12 : Research Methgodology: Technique and Design (2 Credit - 30 Hrs)

Course13: Soft Skill Development: Presentation and Communication (Oral and written) (2 Credit- 30 Hrs)

Course 14: Impact of Public Policy on Primary, Seconday and Tertiary Sectors Country Experiences: Select Advanced and Emerging Markets (3 Credit- 45 Hrs)

Course 15. Project Management (10 Credit- 150 Hrs)

Evaluation pattern

- **Quizes – 10 marks**
- **Assignment – 30 marks**
- **End Semester Exam – 60 marks**

Semester 4 (20 Credit – 300 Hrs)

**Course 16. Case Study Writing on Impact Analysis of Public Policy
(2 Credit- 30 Hrs)**

Course 17. Evidence-based Policy Evaluation (2 Credit- 30 Hrs)

Course 18. Project Assignment (2 Credit- 30 Hrs)

Course 19. Field Work (6 Credit- 90 Hrs)

Course 20. Dissertation (8 Credit- 120 Hrs)

Evaluation pattern

- **Case Study – 10 marks**
- **Policy Evaluation – 10 Marks**
- **Field Work Report – 30 marks**
- **Project Assignment – 20 marks**
- **Dissertation – 30 marksss**