

SHIVAJI UNIVERSITY, KOLHAPUR

Department of Economics-Autonomous



A++

Accredited By NAAC

Syllabus For

B.Sc.-M.Sc. Economics Integrated (Five Years)

Faculty of Humanities

(B.Sc. First Year Semester I and II)

(As Per Maharashtra Government Resolution)

To be introduced from July 2023.

A] Ordinance and Regulations: As applicable to B.Sc.-M.Sc. Economics Integrated (Five Years)

B]

Shivaji University, Kolhapur
Syllabus For
B.Sc.-M.Sc. Economics Integrated (Five Years)

Semester with Credits and CIE System of Examination
[Faculty of Humanities]

1. TITLE: B.Sc.-M.Sc. Economics Integrated (Five Years)
(Under the Faculty of Humanities)

2. YEAR OF IMPLEMENTATION:

To be introduced from July 2023.

3. PREAMBLE:

Keeping in view, the general employability of Graduates and Post Graduates and utterly unsatisfactory the success rate of students in both the Central Civil and Specialized Services Examinations of UPSC, the Department of Economics of Shivaji University has decided to introduce B. Sc.-MSc Economics Integrated (Five Years) course. The unique character of the captioned postgraduate course will be that the students opting for this course shall have the option of multiple exits and the two-point entry system. Accordingly, syllabus has been framed in view to understand recent trends in economics and interdisciplinary subjects along with theoretical and applied perspective as well as skill development with the introduction of semester and credit system.

4. Programme Outcomes:

1. As mentioned in the foregoing point (a) that the captioned Programme will be a successful model in creating the employment avenues in the changing Labour Market which has become a ruthless quality conscious.
2. The captioned Programme will equip the students with the necessary skills to make the diagnosis of contemporary economic problems and write a project proposal.

3. Students at the completion of the captioned Programme shall be able to apply statistically and mathematical tools to monitor and evaluate the policy outcomes.
4. As the students of the captioned Programme will have to study compulsory, the foreign languages it will be easy for them to seek the foreign employment and further higher studies.
5. Students of the captioned Programme will be able to apply their knowledge in the analysis of the socio-economic problems and suggest effective measures in solving the problems.
6. Students completing the captioned Post Graduate Programme will be strongly equipped with the Mathematical, Statistical, and Econometrics skills which in fact is the need of the contemporary world labour market covering the fields of academics, industry, services sectors and national and international administrative fields.

5. DURATION:

- The course shall be a full-time course.
- The duration of course shall be of Five years /Ten Semesters.

6. PATTERN: -The pattern of examination will be Semester with Credit and Internal Evaluation [CIE]. Continuous

7. FEE STRUCTURE: -

i) Entrance Examination Fee: As per university rules

ii) Course Fee-As per the University rules/norms.

| Particulars | Rupees |
|----------------|--------|
| Tuition Fee | Rs. |
| Laboratory Fee | Rs. |
| Computer Fee | Rs. |
| Total | |

Other fee will be applicable as per University rules/norms.

8. IMPLEMENTATION OF FEE STRUCTURE:

In case of revision of fee structure, this revision will be implemented in phase wise manner and as per the University decision in this regard.

9. ELIGIBILITY FOR ADMISSION:

The basic eligibility for the course is 10 + 2 with any discipline of Arts, Commerce, Science, and Diploma Engineering (10+3) from any recognized Board of Examination in India. The minimum percentage of marks [At 10+2 and 10+3 (the case of Diploma Engineering)] required for seeking admission will be 50 percent for the General and 45 percent for reserved category candidates. Basic knowledge of mathematics is required. The merit list will be prepared on the basis of the entrance examination score.

10. MEDIUM OF INSTRUCTION:

The medium of instruction shall be English.

11. STRUCTURE OF PROGRAMME: As per National Education Policy 2020 and as per Government Resolution 2023.

Structure of Programme B.Sc.-M.Sc. Economics Integrated (Five Years) is given below:

Syllabus for B.Sc.-M.Sc. Economics Integrated (Five Years)

Department of Economics-Autonomous, Shivaji University, Kolhapur

B.Sc.-I (Semester-I & II) introduced from July 2023

Credit Distribution Structure for Three/Four-year Honors/Honors with Research Degree Programme with Multiple Entry and Exit Options (Illustrative)

| Level | Semester | Major | | Minor | OE | VSC, SEC, VSEC | AEC, VEC, IKS | OJT, FP, CEP, CC,RP | Cumulative Credit/Sem | Degree/ Cumulative Credit |
|---|----------|---|----------|-----------------------|---|--|--|---------------------|-----------------------|---------------------------|
| 4.5 | | Mandatory | Elective | | | | | | | |
| | I | Micro Economics-I (4) Mathematics for Economics-I (2) | -- | -- | Indian Economy-I (2) Political Economy-I (2) | Computer Application in Economics-I (2) German Language-I (2) | English for Economics: Elementary (2) Democracy, Election and Good Governance (2) Indian Economic Thoughts (2) | Field Project (2) | 22 | UG Certificate 44 |
| | II | Macro Economics-I (4) Mathematics for Economics-II (2) | -- | Economic Thoughts (2) | Indian Economy-II (2) Political Economy-II (2) | Computer Application in Economics-II (2) German Language-II (2) | English for Economics: Intermediate (2) Constitution of India (2) | Internship (2) | 22 | |
| | Cum. Cr | 12 | -- | 2 | 8 | 8 | 10 | 4 | 44 | |
| Exit Option: Award of UG Certificate in Major with 44 credits and an additional 4 credits core NSQF course/Internship or Continue with Major and Minor | | | | | | | | | | |

Shivaji University, Kolhapur
Department of Economics - Autonomous
B. Sc. - M. Sc. Economics Integrated (Five Years)
(As per National Educational Policy 2020 and Resolution of Government of Maharashtra)
With effect from academic year 2023-24
Structure of Level 5 of B.Sc.-M. Sc. Economics Integrated (Five Years)

| Semester I | | | | | | | | | | |
|------------------------|--------------------|-----------------------|----------------|------------------|---------------------------------------|------------|------------|---------------------------------|------------|------------|
| Teaching Scheme | | | | | Examination Scheme | | | | | |
| Sr. No. | Theory | | Credits | Practical | Semester-end Examination (SEE) | | | Internal Assessment (IA) | | |
| | Course TYPE | No of Lectures | | | Paper Hours | Max | Min | Internal | max | Min |
| 1 | Major | 4 | 4 | | 3 | 70 | 28 | | 30 | 12 |
| 2 | Major | 2 | 2 | | 1.5 | 35 | 14 | | 15 | 6 |
| 3 | OE | 2 | 2 | | 1.5 | 35 | 14 | | 15 | 6 |
| 4 | OE | 2 | 2 | | 1.5 | 35 | 14 | | 15 | 6 |
| 5 | VSC | 1 | 2 | 2x2=4* | 1 | 25 | 10 | | 25** | 10 |
| 6 | SEC | 2 | 2 | | 1.5 | 35 | 14 | | 15 | 6 |
| 7 | AEC | 2 | 2 | | 1.5 | 35 | 14 | | 15 | 6 |
| 8 | VEC | 2 | 2 | | 1 | 50 | 20 | | -- | -- |
| 9 | IKS | 2 | 2 | | 1.5 | 35 | 14 | | 15 | 6 |
| 10. | OJT/FP | - | 2 | | -- | 35# | 14 | | 15# | 6 |
| | | 19 | 22 | 04 | | 340 | 136 | | 160 | 64 |

| Semester II | | | | | | | | | | |
|-------------------------------|--------------------|-----------------------|----------------|------------------|---------------------------------------|------------|------------|---------------------------------|------------|------------|
| Teaching Scheme | | | | | Examination Scheme | | | | | |
| Sr. No. | Theory | | Credits | Practical | Semester-end Examination (SEE) | | | Internal Assessment (IA) | | |
| | Course TYPE | No of Lectures | | | Paper Hours | Max | Min | Internal | max | Min |
| 1 | Major | 4 | 4 | | 3 | 70 | 28 | | 30 | 12 |
| 2 | Major | 2 | 2 | | 1.5 | 35 | 14 | | 15 | 6 |
| 3 | Minor | 2 | 2 | | 1.5 | 35 | 14 | | 15 | 6 |
| 4 | OE | 2 | 2 | | 1.5 | 35 | 14 | | 15 | 6 |
| 5 | OE | 2 | 2 | | 1.5 | 35 | 14 | | 15 | 6 |
| 6 | VSC | 1 | 2 | 2x2=4* | 1 | 25 | 10 | | 25** | 10 |
| 7 | SEC | 2 | 2 | | 1.5 | 35 | 14 | | 15 | 6 |
| 8 | AEC | 2 | 2 | | 1.5 | 35 | 14 | | 15 | 6 |
| 9 | VEC | 2 | 2 | | 1 | 50 | 20 | | -- | -- |
| 10 | OJT/Internship | - | 2 | | -- | 35## | 14 | | 15 | 6# |
| | | 19 | 22 | 04 | | 340 | 136 | | 160 | 64 |
| Grand Total I & II | | 38 | 44 | 08 | | 680 | 272 | | 320 | 128 |

* Each Batch of 10 students will have 2 Practical hours per week (2 Batch x 2 Hrs. = 4)

** CIE 25 Marks (15 Marks for Practical Examination and 10 Marks for Journal/Internal Test)

Field Project: For Project Report – 35 Marks and For Viva – 15 marks

Internship Report and Remark of the certificate – 35 Marks and Viva – 15 Marks

| Abbreviations: | |
|-----------------------|-------------------------------------|
| Major | Mandatory |
| Minor | Minor |
| OE | Open Elective |
| VSC | Vocational Skill Course |
| SEC | Skill Enhancement Course |
| AEC | Ability Enhancement Course |
| VEC | Value Education Course |
| VSEC | Vocational Skill Enhancement Course |
| IKS | Indian Knowledge System |
| OJT | On Job Training |

Teaching Scheme for B. Sc. – M. Sc. Economics Integrated (Five Years) Fifth Level (New)

| Semester I | | | | | | |
|--------------------|--------------------|--|------------------------|--------------|------------------|----------------|
| Sr. No | Course Type | Title of Courses | Theory | | Practical | Credits |
| | | | No. of Lectures | Hours | | |
| 1. | Major | Micro Economics-I | 4 | 4 | - | 4 |
| 2. | Major | Mathematics for Economics-I | 2 | 2 | - | 2 |
| 3. | OE | Indian Economy-I | 2 | 2 | - | 2 |
| 4. | OE | Political Economy-I | 2 | 2 | - | 2 |
| 5. | VSC | Computer Application in Economics-I | 1 | 5 | 04* | 2 |
| 6. | SEC | German Language-I | 2 | 2 | - | 2 |
| 7. | AEC | English for Economics: Elementary | 2 | 2 | - | 2 |
| 8. | VEC | Democracy, Elections and Good Governance | 2 | 2 | - | 2 |
| 9. | IKS | Indian Economic Thoughts | 2 | 2 | - | 2 |
| 10 | OJT | Field Project | - | - | - | 2 |
| Total | | | 19 | 23 | 04 | 22 |
| Semester II | | | | | | |
| 1. | Major | Macro Economics-I | 4 | 4 | - | 4 |
| 2. | Major | Mathematics for Economics-II | 2 | 2 | - | 2 |
| 3. | Minor | Economic Thoughts | 2 | 2 | - | 2 |
| 4. | OE | Indian Economy-II | 2 | 2 | - | 2 |
| 5. | OE | Political Economy-II | 2 | 2 | - | 2 |
| 6. | VSC | Computer Application in Economics-II | 1 | 5 | 04* | 2 |
| 7. | SEC | German Language-II | 2 | 2 | - | 2 |
| 8. | AEC | English for Economics: Intermediate | 2 | 2 | - | 2 |
| 9. | VEC | Constitution of India | 2 | 2 | - | 2 |
| 10 | OJT | Internship | - | - | - | 2 |
| Total | | | 19 | 23 | 04 | 22 |
| Grand Total | | | 38 | 46 | 08 | 44 |

* Each Batch of 10 students will be 2 Practical hours per week (2 Batch x 2 Hrs. = 4)

Question Paper Pattern for Semester-End Examination (For 4 credits)

| B. Sc.-M. Sc. Economics Integrated (Five Years) | | |
|---|--|------------------------|
| Paper Title: | | |
| Subject Code: | | |
| Day and Date: | | Total Marks: 70 |
| Time: 3 Hours | | |
| Instructions: 1. All question are compulsory. 2. Figures to right indicated Full Marks. | | |
| Q. No. | Type of Question | Marks |
| 1 | Objective Type Questions (Each Question carry two marks) | 20 |
| | A. Objective Type questions. | 10 |
| | B. Answer in one or two sentences | 10 |
| 2 | Short Answer questions (Any Two out of Three Questions) | 15 |
| 3 | Answer in Brief (Any three out of five Questions) | 15 |
| 4 | Descriptive type question | 20 |

Question Paper Pattern for Semester-End Examination (For 2 credits)

| B. Sc. – M. Sc. Economics Integrated (Five Years) | | |
|--|---|------------------------|
| Paper Title: | | |
| Subject Code: | | |
| Day and Date: | | Total Marks: 35 |
| Time: 1 Hour 30 Minutes | | |
| Instructions: 1. All questions are compulsory 2. Figures to right indicates full marks | | |
| Q. No | Types of Questions | Marks |
| 1. | Objective Type Questions (Each Questions carry two marks) | 10 |
| 2. | Short Answer questions (Any three out of four questions) | 15 |
| 3. | Answer in Brief (Any one out of two) | 10 |

Question Paper Pattern for Semester-End Examination

Computer Application in Economics

| B.Sc.-M. Sc. Economics Integrated (Five Years) Semester-I & II | | |
|---|--|------------------------|
| Subject Code & Paper Title: | | |
| Day and Date: | | Total Marks: 25 |
| Time: 1 Hour | | |
| Instructions: 1. All question are compulsory. 2. Figures to right indicated Full Marks. 3. Use of Calculator is Permitted. | | |
| Q. No. | Type of Question | Marks |
| 1 | Objective Type questions. (Each Question carry one mark) | 05 |
| 2 | Write short notes (Any two out of four Questions) | 10 |
| 3 | Answer any two from three (Numerical Problems) | 10 |

Question Paper Pattern for Semester-End Examination (For 2 credits)
For Semester I: Democracy, Election and Good Governance
Semester II: Constitution of India

| | | |
|--|--|--------------|
| B. Sc. – M. Sc. Economics Integrated (Five Years) | | |
| Paper Title: | | |
| Subject Code: | | |
| Day and Date: | Total Marks: 50 | |
| Time: 1Hour | | |
| Instructions: 1. All questions are compulsory 2. Figures to right indicates full marks | | |
| Q. No | Types of Questions | Marks |
| 1. | 25 Objective Type Questions (Each Question will carry two marks) | 50 |

Internal Assessment

| Sr. No | Semester | Type of internal Assessment | |
|--------|----------|--|---|
| | | For 20 Marks (4 credits)/ For 10 Marks (2 credits) | For 10 Marks (4 credits)/ For 05 Marks (2 credits) |
| 1. | I | Unit Test | Home Assignment/ Oral Examination/ Seminar Presentations/ Group Discussion/ Field Work/ Project Work/ Review of Article/ Academic Writing |
| 2. | II | Unit Test | |
| 3. | III | Unit Test | |
| 4. | IV | Unit Test | |
| 5. | V | Unit Test | |
| 6. | VI | Unit Test | |
| 7. | I&II | Computer Practical 15 marks | Journal/Internal Test 10 marks |
| 8. | I&II | Viva on Project Work/ Internship Report 15 Marks | |

Result – The result of each semester shall be declared as Pass or Fail or Allowed to Keep Terms (A.T.K.T for Semester II & IV) with grade/grade points and credit gained.

SHIVAJI UNIVERSITY, KOLHAPUR
DEPARTMENT OF ECONOMICS-AUTONOMOUS
B.Sc.-M.Sc. Economics Integrated (Five Years)
B. Sc. Economics First Year
Semester-I

| Sr. No. | Course Type | Name of the Courses | Credits |
|----------------|----------------------|--|----------------|
| 1 | Major (Mandatory) | Micro Economics I | 4 |
| 2 | | Mathematics for Economics-I | 2 |
| 3 | Open Elective | Indian Economy-I | 2 |
| 4 | | Political Economy-I | 2 |
| 5 | VSC | Computer Application in Economics-I | 2 |
| 6 | SEC | German Language-I | 2 |
| 7 | AEC | English for Economics: Elementary | 2 |
| 8 | VEC | Democracy, Election and Good Governance | 2 |
| 9 | IKS | Indian Economic Thoughts | 2 |
| 10 | OJT | Field Project | 2 |
| Total | | | 22 |

B. Sc. Part I Semester I
Major Mandatory
Micro Economics-I
(Total Credits: 4)

Course Outcomes:

1. Student will be able to understand the individual decision making.
2. Student will get the theoretical understanding of demand and supply.
3. Student will get the knowledge about the household consumption decisions.
4. Student will be able to differentiate the firm from industry.

| | | |
|-----------------|---|---------------------|
| Unit-I | Introduction to Micro Economics | 15 (Periods) |
| | 1.1 Meaning and scope of micro economics, Scarcity and choice, problem of scarcity and affluence | |
| | 1.2 Positive and normative economics and basic tool for economics analysis | |
| | 1.3 Basic economic Problems, Choice of technique of production and the problem of economic efficiency | |
| | 1.4 Nature of economic reasoning Deductive v/s Inductive method, role of assumptions in economic theory | |
| Unit-II | Demand and Supply | 15 (Periods) |
| | 2.1 Demand function; Individual and Market demand function, Significance of demand function, shift in demand curve | |
| | 2.2 Law of Demand; Factors determining demand, relationship between demand function and demand curve. Elasticity of demand | |
| | 2.3 Supply: Supply function, relation between supply and price | |
| | 2.4 Law of Supply; Shift in supply curve elasticity of supply, factors determining elasticity of supply, Concept of market equilibrium. | |
| Unit-III | Theory of Consumer Behaviour | 15 (Periods) |
| | 3.1 Utility Analysis: Cardinal v/s Ordinal Total, Average and Marginal Utility | |
| | 3.2 Law of Diminishing Marginal utility, Law of Equi-marginal utility, Derivation of Demand Curve | |
| | 3.3 Consumption Decisions, Consumption, Income and Price | |
| | 3.4 Consumer Surplus and Measurement. | |
| Unit-IV | Firm and Industry | 15 (Periods) |
| | 4.1 Objectives and nature of the firm Types of Business Organization | |
| | 4.2 Production Function, Total, Average and Marginal Physical Product | |
| | 4.3 Law of Variable Proportions | |
| | 4.4 Law of Returns to Scale | |

References/Reading List

1. H. L. Ahuja, (2017), Advanced Economic Theory: Micro Economic Analysis, S Chand and Company
2. D. N. Dwivedi, (2008) Microeconomic Theory and Applications, Pearson Education
3. Robert, Daniell and Prem L. (2009), Microeconomics, Pearson Prentice Hall, Noida.
4. Hal R., Varian (2010): Intermediate Microeconomics: A Modern Approach, Springer (India) Pvt. Ltd. India
5. Koutsoyiannis, A. (1979), Modern Microeconomics (2nd Edition), Macmillan Press, London
6. Sen, A. (1999), Microeconomics: Theory and Applications, Oxford University Press, New Delhi
7. Archibald, G. C. (Ed.) (1971), Theory of the firm, Penguin, Harmondsworth
8. Da Costa, G. C. (1980), Production, Prices and Distribution, Tata McGraw Hill, New Delhi
9. Green, H. A. G. (1971), Consumer Theory, Penguin, Harmondsworth
10. Stigler, G. (1996), Theory of Price, (4th Edition), Prentice Hall of India, New Delhi.

B. Sc. Part I Semester I
Major Mandatory
Mathematics for Economics-I
(Total Credits: 2)

Course Outcomes:

1. The student will be able to understand basic concepts of Mathematics.
2. The student will be able to do matrix operations.

Unit-I Preliminaries: Sets, Functions and Straight Line (15 Periods)

- 1.1 Sets-Basic set operations, convex sets;
- 1.2 Functions-Meaning, elementary types of functions: quadratic, polynomial, power, exponential, logarithmic;
- 1.3 Convex, concave, quasi concave, homogeneous and homothetic functions;
- 1.4 Straight line and its equation

Unit-II Matrix Algebra (15 Periods)

- 2.1 Matrix-Concept, Meaning and Types;
- 2.2 Operations of Matrices-Addition, Subtraction and Multiplication; Determinant of Matrices, Rank of Matrix
- 2.3 Inverse of Matrix
- 2.4 Solution of Simultaneous Equations using Matrix

References/Reading List

1. D. Bose: An Introduction to Mathematical Economics, Himalaya Publishing House
2. Edward T. Dowling: Introduction to Mathematical Economics, McGraw Hill
3. Mehata and Madnani: Mathematics for Economists, Sultan Chand & Sons
4. K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia: Delhi.
5. A.Chiang & K.Wainwright: Fundamental Methods of Mathematical Economics, McGraw Hill.
6. E. Silberberg & Suen: The Structure of Economics, McGraw Hill.
7. Simon & Blume: Mathematics for Economists, Viva Books.
8. Rudin W.: Principles of Mathematical Analysis, McGraw-Hill

B. Sc. Part I Semester I
Open Elective
Indian Economy-I
(Total Credits: 2)

Course Outcomes:

1. Equip with the knowledge about nature of Indian economy.
2. Understand the nexus between population growth and development related issues.
3. Capable to take an overview of Indian economy.
4. Analyze the major problems and challenges before economy.

Unit-I Nature of Indian Economy (15 Periods)

- 1.1 India as an Under developed Economy
- 1.2 India as a Developing Economy
- 1.3 Natural Resources: Land, Water, Forest and Mineral resources
- 1.4 Infrastructure: Electricity, Transport, Communications

Unit-II Population Growth and Economic Development (15 Periods)

- 2.1 Trends in Size and Growth of Population - Sex Composition, Age Composition, Rural –Urban distribution, Migration- Smart City Mission
- 2.2 Causes of Population Growth and Remedies on Control
- 2.3 Population and Economic Development - Latest Population Policy
- 2.4 Human Resource Development: Education and Health – Latest Education Policy, Health Policy

References/Reading List

1. Puri V K & Mishra S. K., Indian Economy: Its Development and Experience, Himalaya Publishing House, Mumbai.
2. Dutt and Sundaram , Indian Economy, S Chand & Company Ltd (head Office), Delhi.
3. Byres, t. J. (Ed.) (1998), The Indian Economy: Major Debates Since Independence, Oxford University Press, New Delhi.
4. Chakravarty, S. (1987), Development Planning: The Indian Experience, Oxford University Press, New Delhi.
5. Chatopadhyaya, M., P. Matiti and M. Rakshit (Eds.) (1996), Planning and Economic Policy in India – Evaluation and Lessons for the Future, Sage Publications, New Delhi.
6. Chelliah, Raja J. (1996), Towards Sustainable Growth – Essays in Fiscal and Financial Sector Reforms in India, Oxford University Press, New Delhi.
7. Chelliah, Raja J. and R. Sudarshan (1999), Income, Poverty and Beyond: Human
8. Dandekar, V. M. (1996), The Indian Economy, 1947-92, Vol. II, Sage Publications, New Delhi.
9. Dantwala, M. L. (1996), Dilemmas of Growth: The Indian Experience, Sage Publications, New Delhi.
10. Haq, M. (1996), Reflections on Human Development, Oxford University Press, New

Delhi.

11. Jalan, B. (1996), *India's Economic Policy – Preparing for the Twenty First Century*, Viking, New Delhi.
12. Joshi, V. and I. M. D. Little (1999), *India: Macro Economics and Political Economy, 1964-1991*, Oxford University Press, New Delhi.
13. Kabra, K. N. (1997), *Development Planning in India*, Sage Publications, New Delhi.
14. Narain, D. (1988), *Studies on Indian Agriculture*, Oxford University Press, New Delhi.
15. Nayyar, D. (1976), *India's Exports and Export Policies in the 1960s*, Cambridge University Press, Cambridge.
16. Parikh, K. S. (1999), *India Development Report – 1999-2000*, Oxford University
17. Rangarajan, C. (1998), *Indian Economy: Essays on Money and Finance*, UBS, New Delhi.
18. Reserve Bank of India, *Report on Currency and Finance (Annual)*.
19. Sen, R. K. and B. Chatterjee (2001), *Indian Economy: Agenda for 21st Century (Essays in honour of Prof. P. R. Brahmaanda)*, Deep & Deep Publications, New Delhi.
20. Subramanian, S. (Ed.) (1997), *Measurement of Inequality and Poverty*, Oxford University Press, Calcutta.
21. World Bank (2000), *India: Reducing Poverty, Accelerating Economic Development*, Oxford University Press, New Delhi.

B. Sc. Part I Semester I
Open Elective
Political Economy-I
(Total Credits: 2)

Course Outcomes:

1. Students are acquainted with the basic principles of political economy.
2. Students are able to understand the application of economic examples in political economic perspective.
3. Students are acquainted with the Political and Democratic Principles.

Unit-I Introduction to Political Economy (15 Periods)

- 1.1 Role of Economic Principles in the Basic Connotational Structure.
- 1.2 Application of economic paradigms for explaining political phenomena.
- 1.3 The Introduction to Political Economy-Economy and Political Decision Making, Development of Economic Thoughts-Theocracy-Mercantilism.
- 1.4 Laissez Faire and Adam Smith-Neoclassicals on Political Economy and Development of People Economic Tools and the Democracy.

Unit-II Political and Democratic Principles (15 Periods)

- 2.1 Voting by feet.
- 2.2 Median Voter Theorem.
- 2.3 Economic Decision Making and Public Welfare-Public Choice and Democracy Political Action in Democracy.
- 2.4 Social Choice and individual Values-Kenneth Arrow.

References/Reading List

1. Joshi, V. and I. M. D. Little (1999), India: Macro Economics and Political Economy, 1964-1991, Oxford University Press, New Delhi.
2. Jacob Viner (1927). Adam Smith and Laissez Faire, *Journal of Political Economy*, Vol. 35, No. 2 (Apr., 1927), pp. 198-232.
3. John Marangos (2002). A Political Economy Approach to the Neoclassical Model of Transition. *The American Journal of Economics and Sociology*, Vol. 61, No. 1, Special Issue: The New Political Economies: A Collection of Essay from around the World (Jan., 2002), pp. 259-276.
4. Ilya Somin (2014). Foot Voting, Federalism, And Political Freedom, Federalism and Subsidiarity, Vol. 55, pp. 83-119.
5. Edward J. Mathis, Charles E. Zech (1986). An Examination into the Relevance of the Median Voter Model: Empirical Evidence Offers Support for the Model and Certain Uses, *The American Journal of Economics and Sociology*, Vol. 45, No. 4 (Oct., 1986), pp. 403-412.

B. Sc. Part I Semester I
VSC

Computer Application in Economics-I

(Total Credits: 2)

Course Outcomes:

By the end of this course student will be able to

1. Acquire the basic knowledge of Computer and its parts.
2. Illustrate Storage Devices of Computers and Computer Language.
3. Make the students more able to handle real data with confidence by applying econometric methods of analysis to new circumstances and to develop the skills of using more scientific tools based on computers for economic analysis.

Unit-I Computer Fundamentals: (Periods: Theory-8 and Practical-15)

- 1.1 Computer: Meaning, concepts and Characteristics
- 1.2 Types of computers and their applications
Basic components of computer – CPU, Input Devices, Output Devices, Graphic
- 1.3 User Interface and Computer Language - Binary, Assembly and High-Level Languages;
- 1.4 Hardware Software, Memory and Storage Devices-Internal and External-RAM and ROM

Unit-II Descriptive Statistics (Periods: Theory-8 and Practical-15)

- 2.1 Central Tendency: Meaning, concept and objectives
- 2.2 Measures of Central Tendency: Arithmetic Mean, Median, Mode, Geometric Mean and Harmonic Mean
- 2.3 Growth Rates: Simple Growth Rate and Compound Growth Rate
- 2.4 Diagrammatic Presentation of Data: Line Graph, Bar Diagram, Frequency and Polygon, Histogram, Pie Chart, and Ogive Curve

References/Reading List:

1. Dhanasekaran. K (2013) Computer applications in Economics, Vrinda Publications Pvt. Ltd.
2. Elhance, D. N. (1962), Fundamentals of Statistics, KitabMahal, Allahabad.
3. Gupta, S. C. (1981), Fundamentals of Statistics, Himalaya Publishing House, Bombay.
4. N. M. Downie and R. W. Heath (1970), Basic Statistical Methods, Harper and Row, New York.
5. Rajaram,V, (1996), Fundamentals of Computers, Prentice Hall of India, New Delhi.
6. Sanders, D. H. (1988), Computer Today, McGraw Hill, New York.
7. Sinha, P. K. (1992), Computer Fundamentals, BPB Publications, New Delhi.
8. Yamane, Taro (1973), Statistics, An Introductory Analysis, Harper and Row (India) and John Weatherhill Inc., Tokyo

**B. Sc. Part I Semester I
SEC**

German Language-I

(Total Credits: 2)

Course Outcomes:

1. Regarding Reading skills: The students will understand simple greeting cards, E-Mails, invitations, announcements.
2. Regarding listening skills: The students are in a position to understand short everyday and especially tourist related information. (e.g., at the railway station/airport, hotel booking, in a restaurant, in the market etc.)
3. Regarding speaking skills: The students can reproduce the phonetic and intonation pattern correctly. In the day today situations the students are able to lead a dialog.

Unit-I German History, Culture and Alphabets (15 Periods)

- 1.1 A short history, geography, and cultural aspects of Germany
- 1.2 Saying hello and greeting people at different times of a day
- 1.3 Alphabets and their pronunciation
- 1.4 The personal pronouns: ich, du, Sie

Unit-II Nouns and Verb Conjugation (15 Periods)

- 2.1 Introduction of pronouns
- 2.2 To introduce oneself
- 2.3 Conjugation of verbs which frequently occur
- 2.4 Gender of nouns and its plural forms

References/Reading List

1. Studio d A 1 Publisher: Goyal Publishers and Distributors, Delhi.
2. Netzwerk A 1 Publisher: Klett Publishers Goyal Publishers and Distributors, Delhi.
3. Team Deutsch 1/1 Publisher: Klett Publishers Goyal Publishers and Distributors, Delhi.

B. Sc. Part I Semester I
AEC

English for Economics: Elementary

(Total Credits: 2)

Course Outcomes:

1. The students will develop their English Listening, Reading, Writing and Speaking skills specifically for economic and business needs.
2. The students will be able to improve their ability to use English for spoken and written communication at workplace.
3. The students will be able to communicate competently in formal situations as that of conducting and participating in meetings, negotiating, giving presentations, giving interviews, business correspondence, writing application letters, reports, etc.

Unit-I Listening and Reading Skills (15 Periods)

- 1.1 Talking about workplace (Listening component from Unit2) ‘Corporate Culture’ from Whitby, Business Benchmark)
- 1.2 Telephoning and voicemail (Listening component from Unit 7 & 9 from Whitby, Business Benchmark)
- 1.3 Reading business articles, news (‘FX trading’ from Unit 13 ‘Foreign Exchange’, and ‘Why Stock Markets Matter for You from Unit 15 ‘Stocks and Shares’ in English for the Financial Sector by MacKanzie)
- 1.4 Reading business article (‘Designing your Website’ from Unit 4 ‘The Internet’ from Whitby, Business Benchmark)

Unit-II Speaking Skills (15 Periods)

- 2.1 Short talk on a topic
- 2.2 Telephonic conversations
- 2.3 Group Discussions
- 2.4 Situational Conversations (for example, at the hotel reception, planning a sales event, at the bank to open an account, at the business working lunch, etc.)

Text Books

1. Whitby, Norman. 2006. *Business Benchmark: Preintermediate to Intermediate*. Cambridge University Press.
2. MacKenzie, Ian. 1997. *English for Business Studies: A Course for Business Studies and Economics Students*. Cambridge University Press.

B. Sc. Part I Semester I
VEC
Democracy, Election and Good Governance
(Total Credits: 2)

Course Outcomes:

1. The students will get knowledge about role and function of Democracy.
2. The students will get knowledge constitutional amendment of Election to Local Self Government Bodies.
3. The students will become aware about Fundamentals of good Governance.

Unit-I Democracy, Elections and Good Governance (10 Periods)

- 1.1 Democracy in India
- 1.2 Dimensions of Democracy: Social, Economic and Political
- 1.3 Decentralization: Grassroots Level Democracy
- 1.4 Challenges before Democracy: women and marginalized sections of the society.

Unit-II Election to Local Self Government Bodies (10 Periods)

- 2.1 73rd and 74th Constitutional Amendment Acts: Institutions at the local
- 2.2 level and Role of State Election commission
- 2.3 Local Body Elections: Urban & Rural

Unit-III Good Governance (10 Periods)

- 3.1 Meaning and concept
- 3.2 Government and Governance
- 3.3 Good Governance Initiatives in India

References:

1. Bharati Chhibber (2006). Review: Democracy in India: An Assessment, World Affairs: The Journal of International Issues, Vol. 10, No. 4 (Winter 2006), pp. 142-152.
2. Christopher L. Eisgruber (2003). Dimensions of Democracy, Fordham Law Review, Volume 71, Issue 5, 1723.
3. Jyoti Prakash Samantray (2015). Grassroots Level Democracy in India-an Overview, Paripex - Indian Journal of Research, 4(7): 434-435.
4. Ashutosh Varshney (2007). India's Democratic Challenge, *Foreign Affairs*, Vol. 86, No. 2 (Mar. - Apr., 2007), pp. 93-106.
5. Vayunandan Etakula (2003). Good Governance: Initiatives in India, Prentice Hall India Learning Private Limited

B. Sc. Part I Semester I
IKS
Indian Economic Thoughts
Total Credits: 2

Course Outcomes:

1. Students are able to understand the beginning of Indian economic thoughts.
2. Students will get acquainted with the modern Indian economic thoughts.
3. Students are able to understand – Gandhian, Ambedkar and Amartya Sen thoughts and their application.

Unit-I Ancient and Early 20th Century (15 Periods)

- 1.1 Chanakya (350 BC-275 BC) and the evolution of Indian Political Economic Thinking, Agriculture-Labour-Trade-Private Wealth, Public Finance and Welfare -Chanakya
- 1.2 Beginning of Modern Indian Economic Thoughts and Dadabhai Nauroşji (1825 – 1917)
- 1.3 Poverty and the Drain Theory-Dadabhai Nauroşji
- 1.4 Political Economic Thoughts of Gopal Krishna Gokhale

Unit-II Indian Economic Thoughts 20th Century (15 Periods)

- 2.1 Gandhian Economics, Doctrine of Trusteeship and Village Republic
- 2.2 Sarvodaya-Industrialization-Decentralization and Development, Food Problem Poverty and Population – MK Gandhi and JC Kumarappa
- 2.3 Economic Ideas of Dr. Ambedkar - Land Reforms, Currency Problem and Decentralization of Imperial Finance.
- 2.4 Amartya Sen - Ideas on Welfare Economics, Poverty, Employment, Inequality and Entitlements.

References/Reading List

1. Puri V K & Mishra S. K., Indian Economy: Its Development and Experience, Himalaya Publishing House, Mumbai.
2. Dutt and Sundaram, Indian Economy, S Chand & Company Ltd (head Office), Delhi.
3. Byres, t. J. (Ed.) (1998), The Indian Economy: Major Debates Since Independence, Oxford University Press, New Delhi.
4. Chakravarty, S. (1987), Development Planning: The Indian Experience, Oxford University Press, New Delhi.
5. Chatopadhyaya, M., P. Matiti and M. Rakshit (Eds.) (1996), Planning and Economic Policy in India – Evaluation and Lessons for the Future, Sage Publications, New Delhi
6. Srinivasan, T. N. (Ed.) (2000), Eight Lectures on India's Economic Reforms, Oxford University Press, Oxford.
7. Subramanian, S. (Ed.) (1997), Measurement of Inequality and Poverty, Oxford University Press, Calcutta.
8. Tilak, J. B. C. (1993), Costs and financing of Education in India: A Review of Issues, Problems and Prospects (Mimeo), National Institute of Educational Planning and Administration, New Delhi.

B. Sc. Part I Semester I

Field Project

(Total Credits: 2)

SHIVAJI UNIVERSITY, KOLHAPUR
DEPARTMENT OF ECONOMICS-AUTONOMOUS
B.Sc.-M.Sc. Economics Integrated (Five Years)
B. Sc. Economics First Year
Semester-II

| Sr. No. | Course Type | Name of the Courses Papers | Credits |
|----------------|--------------------|--|----------------|
| 1 | Major | Macro Economics-I | 4 |
| 2 | (Mandatory) | Mathematics for Economics-II | 2 |
| 3 | Minor | Economic Thoughts | 2 |
| 4 | OE | Indian Economy-II | 2 |
| 5 | | Political Economy-II | 2 |
| 6 | VSC | Computer Application in Economics -II | 2 |
| 7 | SEC | German Language-II | 2 |
| 8 | AEC | English for Economics: Intermediate | 2 |
| 9 | VEC | Constitution of India | 2 |
| 10 | OJT | Internship | 2 |
| Total | | | 22 |

B. Sc. Part I Semester II
Major Mandatory
Macro Economics-I
(Total Credits: 4)

Course Outcomes:

1. Acquire the prior knowledge of macroeconomic variables.
2. Comparative analysis of theoretical development is essential for the proper comprehension of the different issues and policies.
3. Demonstrate the systemic facts and studies for empirical analysis.
4. Understanding the current situation and Government Policies useful to control and manage the economic problems.

Unit-I National Income Accounting (15 Periods)

- 1.1 Macroeconomic Statics and Dynamics- National Income Accounts: Gross National Product, Gross Domestic Product, National Income at Factor Cost, Personal and disposable income
- 1.2 National Income at Current and Constant Price, Income Deflator
- 1.3 Methods of Accounting of National Income,
- 1.4 Use and Significance of National Income Accounting.

Unit-II Classical and Cambridge Approaches towards Money (15 Periods)

- 2.1 Cash Transaction Approach
- 2.2 Cash Balance Approach
- 2.3 Keynes' Reformation of quantity theory of money
- 2.4 The Saving-Investment Theory of Money

Unit-III Supply of Money (15 Periods)

- 3.1 Constituents of Supply of Money; Approaches towards Supply of Money
- 3.2 Credit creation, Determinants of Money Supply.
- 3.3 Monetary Policy: Objectives and limitations, Conflicting Objectives.
- 3.4 Fiscal Policy: Objectives and Limitations,

Unit-IV Inflation (15 Periods)

- 4.1 Inflation: Meaning and Types,
- 4.2 Causes and Effects of Inflation
- 4.3 Theories of Inflation: Demand Pull, Cost-Push, Built in Inflation, Measures to Control the Inflation
- 4.4 Phillips curve: Short run and Long run

References/Reading List

1. Bernanke, Ben, and Frederic Mishkin (1997). "Inflation Targeting: A New Framework for Monetary Policy?" *Journal of Economic Perspectives*, vol. 11, pp. 97-116.
2. Mishkin F.S., "Central Banking in a Democratic Society: Implications for Transition Countries," *Zagreb Journal of Economics*, 3 (3) (1999), pp. 51-74,
3. Jagdish Handa (2000). *Monetary Economics*, Routledge, USA, ISBN 978-0-415-199125-4
4. Jhingan M. L. (2010). *Macro-Economic Theory*, Vrinda Publication, New Delhi, ISBN - 81 - 87125 - 45 - 4
5. Khurana S. K. (1995). *Monetary Targeting*, Deep and Deep Publication, ISBN - 817 - 100 - 7864 (1995)
6. Meyer, Laurence (2001). "Inflation Targets and Inflation Targeting," Remarks at the University of San Diego Economics Roundtable, July 17
7. Mishkin F (1999) *Money, Banking and Financial Markets*, 3rd edition. Harper Collins Publishers.
8. Nermale Ben S (2001). *Inflation Targeting: Lessons from International Experiences*, Princeton University Press, New Jersey. ISBN -o-691-08689-3 (2001)
9. Report of the Second Working Group (Chairman M. L. Ghosh) on "Money Supply in India: Concepts, Compilation and Analysis", Reserve Bank of India, Bombay, 1977.
10. R. Dornbusch, S. Fischer, R. Startz (2012), *Macroeconomics*, 11th ed., Tata McGraw Hill
11. Mankiw, N. Gregory (2008). *Principles of Macroeconomics*, 5 th Edition, Cengage Learning.
12. Nellis, G. Joseph and Parker, D (2004) *Principles of Macroeconomics*, Financial Times Prentice Hall, Pearson Education.
13. Case, K. E. Fair, R. C. & Oster, S.E(2014). *Principles of Macroeconomics*, 10th Edition, Pearson Education.
14. Suraj B. Gupta, *Monetary Economics: Institutions, Theory & Policy*, S. Chand (2010)

B. Sc. Part I Semester II
Major Mandatory
Mathematics for Economics-II
(Total Credits: 2)

Course Outcomes:

1. The student will be able to understand process of differentiation.
2. The student will be able to understand process of integration.

Unit-I Differential Calculus (15 Periods)

- 3.1 Differentiation-Meaning and concept
- 3.2 Differential Calculus of One Variable-Rules of differentiation
- 3.3 Differential Calculus of Two Variables-Partial Differentiation and Total Differentiation
- 3.4 Maxima and Minima

Unit-II Integral Calculus (15 Periods)

- 4.1 Integration-Concept , Meaning
- 4.2 Rules of Integration
- 4.3 Indefinite Integration
- 4.4 Definite integration

References/Reading List

1. D. Bose: An Introduction to Mathematical Economics, Himalaya Publishing House
2. Edward T. Dowling: Introduction to Mathematical Economics, McGraw Hill
3. Mehata and Madnani: Mathematics for Economists, Sultan Chand & Sons
4. K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia: Delhi.
5. A. Chiang & K. Wainwright: Fundamental Methods of Mathematical Economics, McGraw Hill.
6. E. Silberberg & Suen: The Structure of Economics, McGraw Hill.
7. Simon & Blume: Mathematics for Economists, Viva Books.
8. Rudin W.: Principles of Mathematical Analysis, McGraw-Hill

B. Sc. Part I Semester II
Minor
Economic Thoughts
Total Credits: 2

Course Outcomes:

1. Equip with the knowledge about the evolution of economic history.
2. Understanding the contributions of different economics school to the economic theory.
3. Strengthening the capability of understanding diverse economic thinking.

Unit-I Pre and Classical Period of Economic Thoughts (15 Periods)

- 1.1 Evolution of Economic Thoughts: Physiocracy and Mercantilism
- 1.2 Adam Smith: Division of Labour, Theory of Value, Capital Accumulation and Distribution
- 1.3 David Ricardo: theory Value, Rent and Distribution
- 1.4 Karl Marx: Dynamics of Social Changes, Theory of Value and Surplus Value, Profit and Crisis of Capitalism and Contemporary Relevance.

Unit-II Marginalist: Marshall to Schumpeter (15 Periods)

- 2.1 Time and Price Determination, Economic Methods, Ideas on Consumer and Producers' Surplus
- 2.2 Representative Firm, External and Internal Economies and Diseconomies, Rent and Quasi-Rent, Nature of Profit
- 2.3 Pigou: Welfare Economics, Pigou- Marshall and Externality
- 2.4 Schumpeter: Entrepreneur and Innovation

References/Reading List

1. Adam Smith (2022) The Wealth of Nations, Rupa Publication India Pvt Ltd (Second Impression) New Delhi.
2. Gide, O. and G. Rist (1956) A History of Economic Doctrine, George Harrop Co., London,
3. Roll, E, A (1973) History of Economic Thought, Faber Landon,
Dasgupta A. K (1985) Epochs of Economic Theory Oxford University Press. New Delhi,
4. Schumpeter, J.A (1951) Ten Great Economist, Oxford University Press, New York
5. Ghosh and Ghosh: Concise History of Economic Thought, Himalaya Publishers.
6. Puttaswamaiah K (1995) Nobel Economists – Lives and Contributions, Indus Public Co. New Delhi
7. Ajit Sinha (ed) (2021) A Reflection on Sraffa's Revolution in Economic Theory, Springer.
8. Banarjee & Duflo (2019) Good Economics for Hard Times: Better Answers to Our Biggest Problems published by Public Affairs UK

9. Hanumantha Rao, C. H. and H. Linnemann (Eds.) (1996), *Economic Reforms and Poverty Alleviation in India*, Sage Publications, New Delhi.
10. Haq, M. (1996), *Reflections on Human Development*, Oxford University Press, New Delhi.
11. Jalan, B. (1996), *India's Economic Policy – Preparing for the Twenty First Century*, Viking, New Delhi.
12. Kabra, K. N. (1997), *Development Planning in India*, Sage Publications, New Delhi.
13. Subramanian, S. (Ed.) (1997), *Measurement of Inequality and Poverty*, Oxford University Press, Calcutta.
14. United Nations Development Programme (1997), *Human Development Report*, Oxford University Press, New Delhi.
15. World Bank (2000), *India: Reducing Poverty, Accelerating Economic Development*, Oxford University Press, New Delhi.

B. Sc. Part I Semester II
Open Elective
Political Economy-II
(Total Credits: 2)

Course Outcome

1. Students are acquainted with the theories of political economy.
2. Students are able to understand economic policies.
3. Students are acquainted with empirical studies on democracy.

UNIT- I Theories of Political Economy

(15 periods)

1.1 Introduction to the Theories of Political Economy

1.2 A theory of Voting Equilibria- Myerson, Roger B. and Robert J. Weber

1.3 Rational Consumers and Irrational Voters- Austen-Smith, David

1.4 Voter Participation-Democracy and Strategic Uncertainty- Palfrey, Thomas R. and Howard Rosenthal

UNIT- II Concepts and Empirics of Indian Political Economy

(15 periods)

2.1 Elections with Privately Informed Parties and Voters- Martinelli, C´esar-America Democracy Case

2.2 Economic Policies and Indian Voter Behaviour-Choice of Candidates-Economic Policies and Parties in Indian Democracy

2.3 Democratic Participation of Society and Political Alignment in Indian Economic and Political Federalism

2.4 Some evidence on how people vote in Indian Democracy-What type of Candidate do India People Prefer? -Evidence of Empirical Studies.

References:

1. Coporaso James and Levine David (1992). *Theories of Political Economy*, Cambridge University Press. ISBN: 052142578.
2. Roger B. Myerson and Robert J. Weber (1988). *A Theory of voting Equilibria*, Discussion Paper 782, Northwestern University, Centre for Mathematical Studies in Economics and Management Sciences.
3. Acemoglu Daron (2010). *Theory, General equilibrium, and Political Economy in Development Economics*, *Journal of Economic Perspectives*, 24(3): 17-32.
4. David Austen-Smith (1991). *Rational consumers and Irrational voters: A Review Essay on black hole tariffs and Endogenous Policy theory*, by Stephen Magee, William Brock and Leslie Young, *Economics and Politics*, Cambridge University Press, 3(1): 73-84.
5. Joseph P. Hester (2023). *Democracy: on the edge of uncertainty*, *The journal of Values-Based Leadership*, Manuscript 1443, 16(2):1-14.
6. Martinelli Cesar (2001). *Elections with privately informed parties and voters*, *Public Choice*, 108(1/2):147-167.
7. GoI (2001). *Review of the working of political parties specially in relation to elections and Reforms options*, National Commission to Review the working of the constitutions, New Delhi.
8. Meyer, R C and Malcolm (1993). *Voting in India: Effects of Economic change and new party formation*, *Asian Survey* 33: No 5: 507.
9. Oates, Wallace E (1972). *Fiscal Federalism*, New York: Harcourt Brace Jovanovich.
10. Rao, M Govinda and Nirvikar Singh (2000). *The Political Economy of Federalism in India*. New Delhi: Oxford University Press.

B. Sc. Part I Semester II
SEC
Computer Application in Economics-II
(Total Credits: 2)

Course Outcomes:

By the end of this course student will be able to

1. Acquire the basic knowledge of Computer and Data Information.
2. Enable the students to acquaint the soft wares like Excel and SPSS which are essential for research.
3. Make the students more able to handle real data with confidence by applying econometric methods of analysis to new circumstances and to develop the skills of using more scientific tools based on computers for economic analysis, research, and forecasting.
4. Make the students more able to handle real data with confidence by applying econometric methods of analysis to new circumstances and to develop the skills of using more scientific tools based on computers for economic analysis.

Unit-I Text Processing, Spreadsheet Software, and Internet:

- 1.1 Introduction to Text Processing-Word Processor: Meaning, Uses and Advantages; Popular Word Processing Packages; Features of; MS-Word: Getting Started, Creating and Saving a document, Editing, Page Setting and Formatting the text and Printing the Document.
- 1.2 Spreadsheet Software: Meaning, Advantages and application areas; Features of MS-Excel: Entering Information; saving workbooks, Commands like creating deleting and copying rows and columns, Create store
- 1.3 Spreadsheet Data Entry, Define variable, Frequency Distribution, Cross tabulation
- 1.4 Information Technology in Business: Internet-Intranet-Extranet, LAN- MAN, WAN, WWW and E-Mail

**Periods:
Theory-8
and
Practical-
15**

Unit-II Descriptive Statistics

- 2.1 Measures of Dispersion: Range, Quartile Deviation, Mean Deviation
- 2.2 Standard Deviation and Coefficient of Variation
- 2.3 Correlation Analysis: Meaning, Concept and Types
- 2.4 Measurement of Correlation: (i) Karl Pearson's Coefficient of Correlation (ii) Spearman's Rank Coefficient of Correlation

**Periods:
Theory-7
and
Practical-
15**

Reference/ Reading list:

1. Dhanasekaran. K (2013) Computer applications in Economics, Vrinda Publications Pvt. Ltd.
2. Elhance, D. N. (1962), Fundamentals of Statistics, KitabMahal, Allahabad.
3. Gupta, S. C. (1981), Fundamentals of Statistics, Himalaya Publishing House, Bombay.
4. N. M. Downie and R. W. Heath (1970), Basic Statistical Methods, Harper and Row, New York.
5. Rajaram,V, (1996), Fundamentals of Computers, Prentice Hall of India, New Delhi.
6. Sanders, D. H. (1988), Computer Today, McGraw Hill, New York.
7. Sinha, P. K. (1992), Computer Fundamentals, BPB Publications, New Delhi.
8. Yamane, Taro (1973), Statistics, An Introductory Analysis, Harper and Row (India) and John Weatherhill Inc., Tokyo.

B. Sc. Part I Semester II
SEC
German Language -II
(Total Credits: 2)

Course Outcomes:

1. Regarding speaking skills: The students can reproduce the phonetic and intonation pattern correctly. In the day today situations the students are able to lead a dialog.
2. Regarding writing skills: The students are able to fill in easy forms, write greeting cards, invitations and short personal announcements.
3. The students will acquire the knowledge of “**Basic Language Use**” and will possess basic functional ability to communicate and exchange information in a simple way.

Unit-I Articles and Vocabulary (15 Periods)

- 1.1 Exchanging information about country of origin and place of residence, profession, telephone number
- 1.2 Introducing the names of days
- 1.3 Introducing the names of months
- 1.4 Definite and indefinite articles

Unit-II Numbers, Watch Timing and General Vocabulary (15 Periods)

- 2.1 Introducing greetings for saying goodbye in formal and informal relations
- 2.2 Numbers
- 2.3 Watch timings

- 2.4 German words for hobbies and professions

References/Reading List

1. Studio d A 1 Publisher: Goyal Publishers and Distributors, Delhi.
2. Netzwerk A 1 Publisher: Klett Publishers Goyal Publishers and Distributors, Delhi.
3. Team Deutsch 1/1 Publisher: Klett Publishers Goyal Publishers and Distributors, Delhi.

B. Sc. Part I Semester II
AEC
English for Economics: Intermediate
(Total Credits: 2)

Course Outcomes:

1. The students will be able to communicate competently in formal situations as that of conducting and participating in meetings, negotiating, giving presentations, giving interviews, business correspondence, writing application letters, reports, etc.
2. The students will be able to develop their word power related to business and Economics
3. The students will be able to revise and enrich their grammatical competence.

Unit-I Writing Skills (15 Periods)

- 1.1 Writing paragraphs with cohesive devices (topic sentence, supporting details etc)
- 1.2 Paraphrasing, note making, summarizing
- 1.3 Email writing and email etiquette (difference between formal and informal language)
- 1.4 Easy writing

Unit-II Grammar and Vocabulary (15 Periods)

- 2.1 Tenses
- 2.2 Use of articles
- 2.3 Economic and business terms (Key vocabulary from Unit 1 and 7, English for the Financial Sector by MacKanzie)
- 2.4 Common errors related to grammar and vocabulary

Text Books

1. Whitby, Norman. 2006. *Business Benchmark: Preintermediate to Intermediate*. Cambridge University Press.
2. MacKenzie, Ian. 1997. *English for Business Studies: A Course for Business Studies and Economics Students*. Cambridge University Press.

B. Sc. Part I Semester II
VEC
Constitution of India
(Total Credits: 2)

Course Outcomes:

1. The students will get knowledge about making and philosophy of Indian Constitution.
2. The students will become aware about Fundamental Rights, Directive Principles and Duties.
3. The students will get knowledge about procedure of constitutional amendment.

Unit-I Historical Background, Making of Indian Constitution and Salient Features (15 Periods)

- 1.1 Historical Background of Indian Constitution: Acts of 1909, 1919 and 1935
- 1.2 Making of Indian Constitution: Constituent Assembly
- 1.3 Salient Features of the Indian Constitution

Unit-II Philosophy, Fundamental Rights, Directive Principles and Fundamental Duties of the Indian Constitution (15 Periods)

- 2.1 Philosophy of the Indian Constitution: The Preamble
- 2.2 Fundamental Rights and Directive Principles of State Policy
- 2.3 Fundamental Duties

Reference Books:

1. Basu D.D., Introduction to Constitution of India Princeton, New Delhi, 1994
2. M.Laxmikanth, Indian Polity, McGraw Hill Education, New Delhi, 6th edition, 2019
3. Awasti S.S., Indian Government and Politics, Haranand Publications Pvt.Ltd., 2009
4. Abbas H. Kumar, Indian Government and Politics, Pearson New Delhi 2011
5. Fadia, B.L., Indian Government and Politics Sahitya bhavan, 16th Revised edition, 2019
6. Kashyap Subhash, Our Constitution-An Introduction to India's Constitution and Constitution law, national Book.

B. Sc. Part I Semester II

Internship

Total Credits: 2