SHIVAJI UNIVERSITY, KOLHAPUR

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Accredited By NAAC

Syllabus For

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

Faculty of Humanities

(B.Sc. Third Year Semester V and VI)

(Subject to the modifications to be made from time to time)

To be implemented from June 2024

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]

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

     (Under the Faculty of Humanities)

YEAR OF IMPLEMENTATION: 2024

MEDIUM OF INSTRUCTION: English.

STRUCTURE OF PROGRAMME:

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 June 2022

     B.Sc.-II (Semester III and IV) introduced from June 2023

     B.Sc.-III (Semester V and VI) introduced from June 2024

Shivaji University Kolhapur
Department of Economics-Autonomous
B.Sc.-M. Sc. Economics Integrated (Five Years)
(As per National Education Policy-2020)
With effect from academic year 2022-23

			Structure of Level 7 of B.Sc.-M. Sc. Economics Integrated (Five Years)								
			Semester V								
		Teaching Scheme				**Examination Scheme**					
Sr. No.	**Theory**				**Practical**	**Semester-end Examination (SEE)**			**Internal Assessment (IA)**		
	Course Type	**No of Lectures**	**Hours**	**Credits**		**Paper Hours**	**Max**	**Min**	**Internal**	**max**	**Min**
1	DSC-V	4	4	4		3	70	28		30	12
2	DSC-V	4	4	4		3	70	28		30	12
3	DSC-V	4	4	4		3	70	28		30	12
4	DSC-V	4	4	4		3	70	28		30	12
5	GEC-V/DSE-V	4	4	4		3	70	28		30	12
6	AECC-V	4	4	4		3	70	28		30	12
7	SEC-V	2	2	2		1	50	20		-	-
		26	26	26			470	188		180	72
			Semester VI								
		Teaching Scheme				**Examination Scheme**					
Sr. No.	**Theory**				**Practical**	**Semester End Examination**			**Internal Assessment**		
	Course Type	**No of Lectures**	**Hours**	**Credits**		**Paper Hours**	**Max**	**Min**	**Internal**	**max**	**Min**
1	DSC-VI	4	4	4		3	70	28		30	12
2	DSC-VI	4	4	4		3	70	28		30	12
3	DSC-VI	4	4	4		3	70	28		30	12
4	DSC-VI	2	4	2	2*4=8#	3	70	28		30	12
5	GEC-VI /DSE-VI	4	4	4		3	70	28		30	12
6	AECC-VI	4	4	4		3	70	28		30	12
7	SEC-VI	2	2	2		1	50	20		-	-
		24	26	26	08		470	188		180	72
Grand Total Semester V & VI		50	52	52	08		940	376		360	144
Total Credits Required for Completing Level 7 : 52 Credits											

#Practical workload for two batches (per batch 20 students/per batch 4 hours teaching)

DSC: **Discipline Specific Core Course**- Student can opt four courses (subjects) from DSC (B) However, student shall have to opt for at least one language course (Subject) from DSC (A)
GEC: **Generic Elective Course**- student can opt any one course (subject)   **DEC- Discipline Specific Course**
AECC: Ability Enhancement Core Course (Compulsory English)
(A) **Non- Credit Self Study Course-** Compulsory Civic Course (CCC) for Semester I: CCC-I Democracy Election and Good Governance
(B) **Non- Credit Self Study Course:** Skill Development Course (SDC) For Sem.-II DSC-I any one from following. i to v i) Business Communication and Presentation ii) Event Management iii)Personality Development iv) Yoga AND Physical Management v) Resume, Report and Personal Writing.
SEC: Skill Enhancement Course, - Students have to complete one SEC each in both Semesters selecting from the platform suggested in NEP Regulation of Shivaji University, Kolhapur (Refer SUK BOS letter Dt. 12 Sep.2022) or from the basket of SEC made available BY Shivaji University Kolhapur

B.Sc.-M.Sc. Economics Integrated (Five Years) Syllabus
Semester System with Credits and Continuous Internal Evaluation [CIE]
To be introduced w.e.f. June 2024 for B. Sc. Third Year (Semester-V & VI) in the Department of Economics, Shivaji University, Kolhapur-4, [Under Academic Flexibility]

Paper Number	Paper Title	Credits	Marks
B. Sc. Third Year (Semester-V)			
DSC-V	Indian Economy-II	**04**	**100**
DSC-V	Research Methodology	**04**	**100**
DSC-V	Industrial Economics	**04**	**100**
DSC-V	Development Economics-II	**04**	**100**
GEC-V/DSE-V	*Computer Application in Economics-III	**04**	**100**
AECC-V	English for Economics: Advanced	**04**	**100**
SEC-V	To be chosen from Uni. Basket of SEC/SWAYAM Course	**02**	**50**
B. Sc. Third Year (Semester-VI)			
DSC-VI	Nobel laureates in Economics	**04**	**100**
DSC-VI	Financial Technology	**04**	**100**
DSC-VI	Managerial Economics	**04**	**100**
DSC-VI	Costs and Financial Accounts	**04**	**100**
GEC-VI /DSE-VI	Project Report	**04**	**100**
AECC-VI	German and French Language	**04**	**100**
SEC-VI	To be chosen from Uni. Basket of SEC/ SWAYAM Course	**02**	**50**

Question Paper Pattern for Semester-End Examination

B. Sc.-M. Sc. Economics Integrated (Five Years) Paper Title: Subject Code:		
Day and Date:		Total Marks: 70
Time: 2 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

Internal Assessment

Sr. No.	Semester	Type of internal Assessment	
		For 20 Marks	**For 10 Marks**
1	V	Unit Test	Review of Article
2	VI	Unit Test	Academic Writing

For Home Assignment, Oral Examination, Seminar Presentation, Group Discussion, Field work/Project work and Review of Article/Academic Writing Maximum marks shall be 10.

Result - The result of each semester shall be declared as Pass or Fail or Allowed to Keep Terms (A.T.K.T. for Semester V & VI as per University Rules) with grade/ grade points and Credits gained.

Rules for Allowing to Keep Term (ATKT):

A) ATKT rules for Undergraduate Programmes:
i. If a candidate fails in any number of courses (subject heads) of Semester I, shall be allowed to proceed to Semester II.

ii. A candidate who earns 50% of total credits of Level 4.5 shall be allowed to keep terms in Level 5.0

iii. If a candidate fails in any number of courses (subject heads) of Semester III, shall be allowed to proceed to Semester IV.

iv. A candidate who earns 50% of total credits of Level 5.0 shall be allowed to keep terms in Level 5.5.

v. If a candidate fails in any number of courses (subject heads) of Semester V, shall be allowed to proceed to Semester VI.

vi. No candidate shall be allowed to proceed to Semester V, unless candidate has passed in all courses of Level 4.5.

vii. If a candidate opts for four year bachelor degree programme and fails in any number of courses (subject heads) of Semester VII, shall be allowed to proceed to Semester VIII.

viii. If a candidate opts for four year bachelor degree programme, such candidate shall not be allowed to proceed to Semester VII, unless candidate has passed three year bachelor degree with 7.5 CGPA or 75%.

ix. In case if the rules of any Apex body differ from these rules, then the rules of that apex body will be applicable.

B) ATKT rules for Postgraduate Programmes:
i. If a candidate fails in any number of courses (subject heads) of Semester I, shall be allowed to proceed to Semester II.

ii. A candidate shall be allowed to proceed to Semester III, even if he/she fails in any number of courses at Level 6.0.

iii. A candidate shall be allowed to proceed to Semester IV even if a candidate fails in any number of courses (subject heads) of any previous Semesters.

iv. In case if the rules of any Apex body differ from these rules, then the

rules of that apex body will be applicable.

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

Semester-V	
Paper Number	**Paper Title**
DSC-V	Indian Economy-II
DSC-V	Research Methodology
DSC-V	Industrial Economics
DSC-V	Development Economics-II
GEC-V/DSE-V	*Computer Application in Economics-III
AECC-V	English for Economics: Advanced
SEC-V	To be chosen from Uni. Basket of SEC/ SWAYAM Course

B. Sc. Part III Semester-V
DSC-V
Indian Economy-II
(Total Credits: 4)

Course Outcomes:
1. Student will get the idea of the overall economy of India.
2. Student will able to understand the and differentiate the sector and sub sectoral contribution in National Income,
3. Will be able to judge the main sectors of the development.

Unit-I   Introduction   **(15 Periods)**
   1.1 Basic Characteristics of Indian Economy
   1.2 Main issues of economic development
   1.3 Capital Formation and technological issues
   1.4 Human development

Unit-II   Agriculture and allied sector   **(15 Periods)**
   2.1 Agriculture growth, Challenges before Indian agriculture
   2.2 Trends in the share in National GDP
   2.3 Fisheries sector and ocean economy; A livelihood of the costal population
   2.4 Mechanization of Indian agriculture

Unit-III   Secondary Sector   **(15 Periods)**
   3.1 Industrial Growth - pre and post plan period
   3.2 Modernization of industries and technology transfer
   3.3 Role of small, medium and large scale industries
   3.4 Foreign Direct Investment and portfolio investment.

Unit-IV   Tertiary sector   **(15 Periods)**
   4.1 Share and trends of construction sector in Indian GDP: Employment; output and asset creation
   4.2 Tourism and hospitality sector: Growth and challenges
   4.3 Communication and transport: growth of the Road Network and connectivity
   4.4 International trade; Growth, Pattern share and challenges

References/Reading List:

1. Puri V K & Mishra S. K., (2023), Indian Economy: Its Development and Experience, Himalaya Publishing House, Mumbai.
2. Dutt and Sundaram, (2023), 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. Datt, R. (Ed.) (2001), Second Generation Economic Reforms in India, Deep & Deep Publications, New Delhi.
11. Government of India, Economic Survey (Annual), Ministry of Finance, New Delhi.
12. Government of India, Planning Commission (1999), Reports, New Delhi.
13. Gupta, S. P. (1998), Post-Reform India: Emerging Trends allied Publishers, New Delhi.
14. Hanumantha Rao, C. H. and H. Linnemann (Eds.) (1996), Economic Reforms and Poverty Alleviation in India, Sage Publications, New Delhi.
15. Haq, M. (1996), Reflections on Human Development, Oxford University Press, New Delhi.
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17. Jalan, B. (1996), India's Economic Policy – Preparing for the Twenty First Century, Viking, New Delhi.
18. Joshi, V. and I. M. D. Little (1999), India: Macro Economics and Political Economy, 1964-1991, Oxford University Press, New Delhi.
19. Kabra, K. N. (1997), Development Planning in India, Sage Publications, New Delhi.
20. Kumar, A. (1999), The Black Money in India, Penguin, Harmondsworth.
21. Lucas, R. E. B. and F. Papanek (Eds.) (1988), The Indian Economy – Recent Development and Future Prospects, Oxford University Press, New Delhi.
22. Mookherjee, d. (Ed.) (1997), Indian Industry: Policies and Performance, Oxford
23. Narain, D. (1988), Studies on Indian Agriculture, Oxford University Press, New Delhi.
24. Parikh, K. S. (1999), India Development Report – 1999-2000, Oxford University
25. Rangarajan, C. (1998), Indian Economy: Essays on Money and Finance, UBS, New Delhi.
26. Reserve Bank of India, Report on Currency and Finance (Annual).
27. Sen, R. K. and B. Chatterjee (2001), Indian Economy: Agenda for 21st Century (Essays in honour of Prof. P. R. Brahmananda), Deep & Deep Publications, New Delhi.
28. Srinivasan, T. N. (Ed.) (2000), Eight Lectures on India's Economic Reforms, Oxford University Press, Oxford.
29. World Bank (2000), India: Reducing Poverty, Accelerating Economic Development, Oxford University Press, New Delhi.

B. Sc. Part III Semester-V
DSC-V
Research Methodology
(Total Credits: 4)

Course Outcomes:
1. Understand the principles of research design and methodology.
2. Formulate clear and researchable economic questions.
3. Conduct comprehensive literature reviews.
4. Design and implement qualitative and quantitative research studies.
5. Analyze data using appropriate statistical techniques.
6. Present research findings effectively in written and oral formats.

Unit-I   Introduction to Research   **(15 Periods)**
1.1 Research- Meaning, Objectives, Motivation and Significance; Characteristics of scientific Research
1.2 Type of research : pure, applied, analytical, exploratory, descriptive, surveys, Case-study; Conceptual or theoretical models; Criteria of Good Research
1.3 Research process Limitations of Social science research
1.4 Role of computer technology in research

Unit-II   Sampling-Data Collection and Processing   **(15 Periods)**
2.1 Types of Data-Primary and Secondary, Methods of Collecting Primary Data, Sources of Secondary Data
2.2 Census and Sampling Methods, Methods of sampling- Nonprobability and Probability, Determination of sample size
2.3 Classification of data-Types of Classification, Formation of Frequency Distribution
2.4 Diagrammatic and Graphic Presentation- Types of Diagram and Graphs.

Unit-III   Research Problem and Research Design   **(15 Periods)**
3.1 Research Problem: Meaning- Selection – Necessity - Technique Involved
3.2 Research Proposal and Design: Meaning - Need
3.3 Features of a Good Design - Important Concepts Relating to Research Design
3.4 Basic Principles of Experimental Designs, Different Research Designs

Unit-IV Processing , Analysis of Data, Testing of Hypotheses, Interpretation and Report **(15 Periods)** Writing
4.1 Data Processing- Scrutiny, Classification, Editing and Tabulation – Problems
4.2 Hypothesis: Meaning - Basic Concepts Concerning Testing -Procedure - Measuring the Power of a Hypothesis Test - Tests of Hypotheses: Important Parametric and Non Parametric Tests
4.3 Interpretation: Meaning - Why- Technique- Precaution
4.4 Report Writing: Significance - Steps- Layout - Types - Mechanics –Precautions

References/Reading List:

1. Kothari, C. R. (2004) Research Methodology: Methods and Techniques , New Age International (P) Ltd., New Delhi.
2. Ackoff, Russell L., (1961) The Design of Social Research, Chicago: University of Chicago Press .
3. Ackoff, Russell L., (1962) Scientific Method, New York: John Wiley & Sons.
4. Allen, T. Harrell, (1978) New Methods in Social Science Research, New York: Praeger Publishers.
5. Anderson, H.H., and Anderson, G.L., (1951) An Introduction to Projective Techniques and Other Devices for Understanding the Dynamics of Human Behaviour, New York: Prentice Hall .
6. Anderson, T.W., (1958) An Introduction to Multivariate Analysis, New York: John Wiley & Sons.
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12. Bhandarkar and Wilkinson (2010) Methodology and Techniques of Social Science Research , Himalaya Publishing House, New Delhi
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14. Ghosh, B.N., (1982) Scientific Methods and Social Research, New Delhi: Sterling Publishers Pvt. Ltd.,.
15. Goode, William J., and Hatt, Paul K., (1952) Methods in Social Research, New York: McGraw-Hill.
16. Gopal, M.H., (1965) Research Reporting in Social Sciences, Karnatak University. Dharwad
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18. Gupt , S. C. (2016) Fundamentals of Statistics, Himalaya Publishing House, New Delhi
19. Gupta, S. P. (2017) Statistical Methods, S Chand and Sons , New Delhi
20. Hans Raj (2000) Theory and Practice in Social Science Research, Surjeet Publications

B. Sc. Part III Semester-V
DSC-V
Industrial Economics
(Total Credits: 4)

Course Outcomes:
1. Student will get through understanding of industrial economics.
2. Student will get aware about the new terminology of industrial economics.
3. Student will get equip with the skills of price determination.
4. Student will get exposed with the market practices.

Unit-I   Introduction to Industrial Economics   (15 Periods)
  1.1 Concept and organization of a firm – ownership, control and objectives of the firm; Passive and active behaviour of the firm.
  1.2 Optimum Firm: Factor determining optimum size of a firm
  1.3 Concepts of costs, Average Cost, Marginal Cost, Total Costs Traditional cost theories and Modern cost theories Market structure
  1.4 Weber and Sargent Florence theory of industrial location

Unit-II   Market Conduct and Performance   (15 Periods)
  2.1 Product pricing; theories and evidences
  2.2 Investment expenditure Methods of evaluating investment expenditure; Theories and Empirical evidences on merger and acquisition.
  2.3 Size and Growth of the firm: constraint on the growth, Growth and profitability of the firm.
  2.4 Productivity efficiency and capacity utilization.

Unit-III Growth and pattern of Indian industries   (15 Periods)
  3.1 Classification of industries; Role of Public and private sectors in Industrial development
  3.2 Industrial policy in India – East India Company, 1948,1956, 1977, 1080 and 1991.
  3.3 Recent trends in Indian industrial growth; MNCs and transfer of technology; Liberalization and privatization
  3.4 Regional industrial growth in India; Industrial economic concentration and remedial measures; Pollution control policies

Unit-IV Industrial Finance   (15 Periods)
  4.1 Owned, external and other components of funds;
  4.2 Role, nature, volume and types of institutional finance – IDBI, IFCI, SFCs, SIDC, commercial banks, etc.;
  4.3 Financial statement – Balance sheet, Profit and loss account; assessment of financial soundness, ratio analysis,
  4.4 GDRs and ADRs, Trends in External Resources flow.
  References/Reading List:

1. Ahluwalia, I. J. (1985), Industrial Growth in India, Oxford University Press, New Delhi.
2. Barthwal, R. R. (1985), Industrial Economics, Wiley Eastern Ltd., New Delhi.
3. Cherunilam, F. (1994), Industrial Economics: Indian Perspective (3rd Edition), Himalaya Publishing House, Mumbai.
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14. Kamien, M. T. and N. L. Schwartz (1982), Market Structure and Innovation, Cambridge University Press, Cambridge.
15. Wiles, P. J. D. (1963), Price, Cost and Output, Praeger, New York.

B. Sc. Part III Semester-V
DSC-V
Development Economics-II
(Total Credits: 4)

Course Outcomes:
1. This course familiarizes the students with emergence of the field of development economics in the context of international events.
2. It aims to focus on various development theories and approaches in dealing with underdevelopment and pressing issues of poverty and inequality, with the concepts and measurement.
3. This course analyses the shift of focus from economic growth as a single dimensional concept to economic development which is a multi-dimensional concept.
4. This course analyses the shift of focus from economic growth as a single dimensional concept to economic development which is a multi-dimensional concept.

Unit-I   Introduction to Development and growth   **(15 Periods)**
    1.1 Development and Underdevelopment: An Overview Background and beginning of 'Development Economics' in the post-world war era, its elements Defining economic development
    1.2 Defining Economic development- Alternative Measures of Development-PQLI, HDI and its extensions
    1.3 Structural features of underdeveloped economies, international variations
    1.4 Development and growth- income as a measure of growth

Unit-II   Development, Poverty and Inequality   **(15 Periods)**
    2.1 Perceptions about Development and Underdevelopment Vicious circle of poverty-Big Push Theory
    2.2 Poverty and Inequality: Definitions, Measures and Mechanisms - Concept of poverty and its measures
    2.3 Inequality meaning – axioms - commonly used inequality measures, Kuznets curve - Impact of poverty and inequality on process of development
    2.4 Dual economy model- Harris- Todaro migration model

Unit-III Population and Economic Development   **(15 Periods)**
    3.1 Conflicting role of population growth in the development process – Demographic Transition
    3.2 Malthusian Population Trap, Microeconomic Household Theory of Fertility
    3.3 Evaluating the effect of population growth on living standards – Enke's work – Simon's challenge
    3.4 The 'optimum' population – A model of the Low-Level Equilibrium Trap – Critical Minimum Effort Thesis

Unit-IV   Growth theories and low Developed Countries   **(15 Periods)**

    4.1 Classical Scenario – The Keynesian Theory and less developed countries
    4.2 The Harrod-Domar model and its applications
    4.3 The neoclassical theory and less developed countries
    4.4 Marx's theory and less developed countries

References/Reading List:

1. Michael P. Todaro& Stephen C. Smith (2015): Economic Development, Pearson Education
2. SubrataGhatak (2005): Introduction to Development Economics, Routledge
3. A.P. Thirlwall& Penelope Pacheco-Lopez (2017): Economics of Development, Macmillan
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5. Amitava Krishna Dutt (2008): International Handbook of Development Economics (vol. 1), Edward Elgar
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B. Sc. Part III Semester-V
GEC-V/DSE-V
Computer Application in Economics-III
(Total Credits: 4)

Course Outcomes:
1. Acquire the knowledge of Data Analysis.
2. Understand the basic functions of Data Analysis Software and Illustrate the Computer Tools and the facilities available
3. Make the students aware of the Static Web pages and Emerging Technologies
4. Make the students 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   Use of Computers in Education and Research   (15 Periods)
1.1 What is Data in research, what is Data collection
1.2 Data Analysis: Box and whisker plot, Check sheet, Control chart, Design of experiments (DOE), Histogram, Scatter diagram, Stratification and Survey.
1.3 Introduction to Data Analysis Software: Excel and R
1.4 Statistical Analysis using Stata: Summary, Tabulation and comparison of summary statistics; Correlation and Regression.

Unit-II   Static Web pages   (15 Periods)
2.1 Basics of HTML
2.2 Create static web pages.
2.3 Use style sheets to enforce a format in an HTML page (CSS).
2.4 Add: text box, radio buttons, checkbox, password, list and Embed pictures, audio and videos in an HTML page

Unit-III Overview of Emerging Technologies   (15 Periods)
3.1 Bluetooth, WIFI,
3.2 Cloud computing,
3.3 Big data, Data mining,
3.4 Mobile computing and embedded systems

Unit-IV Computer Application in Descriptive Statistics -Time Series Analysis   (15 Periods)
4.1 Time Series Analysis: Meaning, Concept and Utility, Components of Time Series
4.2 Measurement of trend and Forecasting: Free hand / Graphic Method, Semi-Average Moving Average Method and Method of Least Square-fitting a straight line trend

4.3 Growth Rates: Simple Growth Rate and Compound Growth Rate
4.4 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.
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3. York.
4. Rajaram,V, (1996), Fundamentals of Computers, Prentice Hall of India, New Delhi.
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6. Sinha, P. K. (1992), Computer Fundamentals, BPB Publications, New Delhi.
7. Yamane, Taro (1973), Statistics, An Introductory Analysis, Harper and Row (India) and
8. John Weatherhill Inc., Tokyo.

B. Sc. Part III Semester-V
AECC-V
English for Economics: Advanced
(Total Credits: 4)

Course Outcomes:
1. The students will comprehend lectures and speeches of economists, written and oral budget analysis, and economics articles.
2. The students will use correct English for spoken and written communication at the workplace
3. The students will give competent presentations using visual aids and slides
4. The students will develop their word power related to business and Economics.
5. The students will learn the essentials of academic writing and practice writing abstracts, literature review, research questions and citing sources.

Unit-I   Listening and Reading Skills   **(15 Periods)**
   1.1 Listening to presentations, speeches and interviews of economists (for example of
        R. C. Rangarajan, Indermit Gill, Abhijit Banerjee, etc.)
   1.2 Comprehending Budget Analysis
   1.3 Reading News articles on Economics
   1.4 Reading Research Articles/ Papers in Economics Journals

Unit-II   Speaking Skills   **(15 Periods)**
   2.1 Expressing opinions and disagreement; asking for and giving suggestions and
        advice; handling queries and complaints
   2.2 Preparing presentation slides
   2.3 Giving presentations using Visual aids and
   2.4 Answering questions on your presentation

**Unit-III   Expressing opinions and disagreement; asking for and giving suggestions and   (15 Periods)
        advice; handling queries and complaints**
   3.1 Preparing presentation slides
   3.2 Giving presentations using Visual aids and
   3.3 Answering questions on your presentation
   3.4 (Unit 22 and 24 from Ian MacKenzie's English for Financial Sector for 2.2. to 2.4)

Unit-IV   Grammar and Vocabulary   **(15 Periods)**

   4.1 Using modal verbs; avoiding fragments and run-on sentences

   4.2 The Present Simple, Past Simple and Present Perfect tenses in academic writing

   4.3   Economic and Business Vocabulary related to banking, financial statements, accounting, monetary policy, exchange rates.
(From Ian MacKenzie's *English for Financial Sector*)

   4.4 Economic and Business Vocabulary related to stock market, mergers, takeovers, buyouts, derivatives, asset managements and allocation
(From Ian MacKenzie's *English for Financial Sector*)

References/Reading List:

1. MacKenzie, Ian. 2008. *English for Financial Sector. Student's Book. Cambridge University Press.*
2. Whitby, Norman. 2006. *Business Benchmark: Preinetemediate to Intermediate.* Cambridge University Press.
3. MacKenzie, Ian. 1997. *English for Business Studies: A Course for Business Studies and Economics Students.* Cambridge University Press.
4. Murphy, Raymond. 1994. *Intermediate English Grammar*. Cambridge University Press
5. Mascull, Bill. 2002. *Business Vocabulary in Use*. Cambridge University Press.
6. 'Citing Sources'. The Writing Centre, George Mason University.
https://writingcenter.gmu.edu/writing-resources/citing-sources
7. Research Based Writing. The Writing Centre, George Mason University.
https://writingcenter.gmu.edu/writing-resources/research-based-writing
7. Economics Terms. Collins Dictionary. https://www.collinsdictionary.com/word-lists/economics-economics-terms
9. Economics Vocabulary Word List. The Britannica Dictionary.
https://www.britannica.com/dictionary/eb/3000-words/topic/economics
10. Collocations with Economics. Cambridge Dictionary.
https://dictionary.cambridge.org/collocation/english/economics
11. Gibson Robert. 2014. *Intercultural Business Communication,* Oxford University Press.
12. Leki Ilona. 2012. *Academic Writing: Exploring Processes and Strategies,* Cambridge University Press.

B. Sc. Part III Semester-V
SEC-V
Total Credits: 2

To be chosen from Uni. Basket of SEC/ SWAYAM Course

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

Semester-VI	
Paper Number	**Paper Title**
DSC-VI	Nobel laureates in Economics
DSC-VI	Financial Technology
DSC-VI	Managerial Economics
DSC-VI	Costs and Financial Accounts
GEC-VI /DSE-VI	Project Report
AECC-VI	German and French Language
SEC-VI	To be chosen from Uni. Basket of SEC/ SWAYAM Course

B. Sc. Part III Semester-VI
DSC-VI
Nobel laureates in Economics
(Total Credits: 4)

Course Outcomes:
1. Acquaint the students of economics with the ideas and work of Nobel laureates.
2. Describe the development of ideas by the Nobel Laureates in Economics.
3. Critically assess the ideas of growth and financial economics by the Nobel Laureates in Economics.

Unit-I   Static and Dynamic Models, Econometrics and Markets (15 Periods)
   1.1 Paul A. Samuelson
   1.2 Lawrence R. Klein
   1.3 George A. Akerlof
   1.4 Joseph E. Stiglitz

Unit-II   Static and Dynamic Models, Econometrics and Markets (15 Periods)
   2.1 Paul A. Samuelson
   2.2 Lawrence R. Klein
   2.3 George A. Akerlof
   2.4 Joseph E. Stiglitz

Unit-III   Macro, Monetary and Financial Economics (15 Periods)
   3.1 Milton Friedman
   3.2 James Tobin
   3.3 Robert C. Merton
   3.4 Paul Krugman

Unit-IV   Applications and Contemporary issue (15 Periods)
   4.1 Abhijit Banerjee and Esther Duflo
   4.2 Jean Tirole
   4.3 Elinor Ostrom
   4.4 Alvin Roth

References/Reading List:
1. Lindbeck, Assar (Ed) (1992). Nobel lectures in economic sciences 1969-1980, World Scientific, London,
2. Maler, Karl-Goram (ed) (1992)., Nobel lectures in economic sciences 1981-1991, World Scientific, London.
3. Puttaswamaiah, Nobel Economists, Vol 2, 1975-85, Indus Publishing Company, New Delhi

B. Sc. Part III Semester-VI
DSC-VI
Financial Technology
(Total Credits: 4)

Course Outcomes:
1. To understand the fundamental concepts and evolution of Financial Technology.
2. To analyze the impact of Financial Technology on traditional financial services.
3. To explore key technologies and innovations driving Financial Technology.
4. To examine regulatory and ethical issues in Financial Technology.

Unit-I   Introduction to Financial Technology **(15 Periods)**
1.1 Definition and scope of FinTech, Historical evolution of financial technology
1.2 Overview of the FinTech ecosystem, Key players and stakeholders in FinTech
1.3 Digital Payments and Mobile Banking-Evolution of digital payments, Mobile banking and its impact on traditional banking
1.4 Peer-to-peer (P2P) payment systems, Case studies on digital payment platforms (e.g., PayPal, Venmo, Alipay)

Unit-II   Blockchain, Cryptocurrencies, Crowdfunding platforms and models **(15 Periods)**
2.1 Introduction to blockchain technology, Cryptocurrencies: Bitcoin, Ethereum, and others
2.2 Applications of blockchain in finance, Regulatory and security issues in cryptocurrencies
2.3 Crowdfunding and Peer-to-Peer Lending-Peer-to-peer lending: benefits and risks
2.4 Case studies on crowdfunding success stories, Regulatory considerations in crowdfunding and P2P lending

Unit-III   Robo-Advisors, Automated Wealth Management and Technology in **(15 Periods)**
       Insurance
3.1 Introduction to robo-advisors, How robo-advisors work
3.2 Benefits and limitations of automated wealth management, Case studies on leading robo-advisor platforms (e.g., Betterment, Wealthfront)
3.3 Overview of InsurTech and its significance, Key innovations in insurance technology
3.4 Impact of InsurTech on traditional insurance models, Case studies on InsurTech applications (e.g., Lemonade, Oscar Health)

Unit-IV   RegTech: Regulatory Technology, Big Data and AI in FinTech   (15 Periods)

4.1   Introduction to RegTech, Applications of RegTech in compliance and regulation, Regulatory compliances.

4.2   Benefits and challenges of implementing RegTech solutions, Case studies on RegTech innovations

4.3   Role of big data in financial services, Applications of artificial intelligence (AI) in FinTech

4.4   Machine learning and predictive analytics in finance, Ethical considerations and challenges in using AI and big data

References/Reading List:

1.   Pranay Gupta and T. Mandy Tham (2018), FinTech: The New DNA of Financial Services
2.   Susanne Chishti and Janos Barberis (2016), The FINTECH Book: The Financial Technology Handbook for Investors, Entrepreneurs, and Visionaries, Wiley
3.   Don Tapscott and Alex Tapscott (2016), Blockchain Revolution: How the Technology Behind Bitcoin and Other Cryptocurrencies is Changing the World, Portfolio Penguin
4.   Access to relevant academic journals and industry reports (e.g., Journal of Financial Technology, FinTech Futures)

B. Sc. Part III Semester-VI
DSC-VI
Managerial Economics
(Total Credits: 4)

Course Outcomes:
1. Enrich the knowledge of the principles, laws, and theories in economics that will be useful for a manager at the firm level in the decision-making process.
2. Dealing with the resource utilisation problem and choosing the optimal resource at the firm or industry.
3. Seek solutions to questions like how much should be produced, what price should be charged, and how to become successful businessmen.

Unit-I   Introduction and Demand and Supply Analysis   **(15 Periods)**
1.1 Meaning, Nature, Scope and Chief Characteristics of Managerial Economics,
1.2 The Demand Function, Demand Curve, The Law of Demand, Factors that Affect Demand
1.3 Law of Supply, Supply Function, Determinants of Supply, Equilibrium of Demand and Supply
1.4 Demand forecasting- Steps involved in forecasting, Methods of demand forecasting, Trend Analysis

Unit-II   Elasticity of Demand and Supply   **(15 Periods)**
2.1 Elasticity of Demand: Meaning, Factors Influencing Elasticity of Demand, Uses of Elasticity of Demand
2.2 Classification of Elasticity of Demand- 1. Price Elasticity 2. Income Elasticity of Demand 3. Cross Price Elasticity of Demand.
2.3 Methods of Measuring Elasticity.
2.4 Elasticity of Supply - Types of Elasticity of Supply, Factors Affect The Elasticity of Supply.

Unit-III Cost Concepts   **(15 Periods)**
3.1 Types of Costs
3.2 Nature of Cost Curves in the Short Run
3.3 Nature and Behaviour of Long Run Cost Curves, Relationship Between Short Run and Long Run Cost Curves
3.4 Economies and Diseconomies of Scale

Unit-IV Attributes of Production Function   **(15 Periods)**
4.1 Short Run Production Function: Law of Variable Proportions.
4.2 Long Run Production Function: Law of Returns to Scale
4.3 Optimum Combination of Inputs, Expansion Path, Homogeneous production function-Cobb-Douglas and CES Production Function
4.4 Short Run Production Function: Law of Variable Proportions.

References/Reading List:

1. W. B. Allen, (2009), Managerial Economics Theory, Applications, and Cases, 7th Edition. Norton. Contents.
2. William J. Baumol, (1961), What Can Economic Theory Contribute to Managerial Economics?, American Economic Review, 51(2), pp. 142-46. Abstract.
2. Ivan Png and Dale Lehman (2007), Managerial Economics. Wiley. Description and chapter-preview links.
3. M. L. Trivedi, (2002), Managerial Economics: Theory & Applications, 2nd ed., Tata McGraw-Hill. Chapter-preview links.
4. NA, (2009), Managerial economics, Encyclopedia Britannica. Cached online entry.
5. Carl Shapiro (1989). "The Theory of Business Strategy," RAND Journal of Economics, 20(1), pp. 125-137.
6. Thomas J. Webster (2003). Managerial Economics: Theory and Practice, ch. 13 & 14, Academic Press. Description.
7. James O. Berger (2008), Statistical Decision Theory," The New Palgrave Dictionary of Economics, 2nd Edition. Abstract.
8. Keisuke Hirano, (2008), Decision Theory in Econometrics, The New Palgrave Dictionary of Economics, 2nd Edition. Abstract.
9. Vassilis A. Hajivassiliou, (2008), Computational Methods in Econometrics, The New Palgrave Dictionary of Economics, 2nd Edition. Abstract.
10. Trefor Jones, (2004), Business Economics and Managerial Decision Making, Wiley. Description and chapter-preview links.
11. Nick Wilkinson, (2005), Managerial Economics: A Problem-Solving Approach, Cambridge University Press. Description and preview.
12. Maria Moschandreas, (2000), Business Economics, 2nd Edition, Thompson Learning. Description and chapter-preview links.
13. Prof. M.S. Bhat, and M.K. Rau, Managerial economic and financial analysis.Hyderabad.ISBN 978-81-7800-153-1

B. Sc. Part III Semester-VI
DSC-VI
Costs and Financial Accounts
(Total Credits: 4)

Course Outcomes:
1. To understand the basic concepts of cost and financial accounting.
2. To prepare and analyze financial statements.
3. To explore various costing methods and their applications.
4. To apply accounting information to support economic decision-making.
5. To develop skills in using accounting software for financial management.

Unit-I   Introduction to Financial Accounting   (15 Periods)

1.1 Introduction to Business -an economic activity, important Terms in financial accounting, Overview of book keeping and financial accounting, Importance of accounting in economics

1.2 Basic accounting concepts and principles, Accounting Cycle

1.3 Principles of double entry accounting and application in business

1.4 Recording of transactions, journal, ledger and subsidiary books

Unit-II   Financial statements- Analysis and Interpretation   (15 Periods)

2.1 Trial balance - types of trial balance, rectification of errors preparation of trial balance

2.2 Preparation of financial statements for sole proprietorship-Trading and Profit and Loss Account, Balance Sheet

2.3 Introduction to Companies Act 2013, preparation of income statement or Profit and Loss account and Balance Sheet.

2.4 Analysis and interpretation of financial statements -common size. Statement, comparative statements, ratio analysis, introduction to cash flow and funds flow statements

Unit-III   Cost Concepts and Classifications   (15 Periods)

3.1 Definition and importance of cost accounting, Types of costs

3.2 Elements of cost - Material, Labour and Overhead

3.3 Preparation of Cost sheet, tender and estimates

3.4 Introduction to methods of costing - job, batch, process and contract costing (only theory)

Unit-IV   Cost Volume Profit Analysis   (15 Periods)

4.1 Concept of CVP analysis, need and objectives , P/V ratio and contribution

4.2 Advantages and limitations of CVP analysis

4.3 Break even analysis, Margin of safety, Buy and make decisions

4.4 Graphical presentation of BEP

References/Reading List:

1. M. N. Arora (2022), Cost Accounting, Vikas Publishing
2. P C Tulsian and Bharat Tulsian (2016), Financial Accounting, S Chand
3. M. G. Patkar (2021) Management Accounting, Phadke Prakashn
4. Jain, Narang and Agarwal (2016), Cost Accounting Principles and Practice, Kalyani Publishers
5. S.N.Maheshwari (2013), Cost and Management Accounting, S.Chand publication
6. M C Shukla, S C Gupta and T S Grewal (2018), Advanced Accouts,Volume I and II, S. Chand
7. S.N.Maheshwari (2022), Advanced Accountancy Volume-I, Vikas Publishing
8. Paul D. Kimmel, Jerry J. Weygandt, and Donald E. Kieso (2006), Financial Accounting: Tools for Business Decision Making, John Wiley & Sons
9. Srikant Datar and Madhav Rajan (2017), Horngren's Cost Accounting: A Managerial Emphasis, Pearson
10. Paul D. Kimmel, Jerry J. Weygandt, and Donald E. Kieso, (2018), Financial Accounting: Tools for Business Decision Making, John Wiley & Sons
11. Charles T. Horngren, Srikant M. Datar, and Madhav V. Rajan, (2012), Cost Accounting: A Managerial Emphasis, Pearson
12. Chartered accountant - journal
13. Management accountant journal

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B. Sc. Part III Semester-VI
GEC-VI /DSE-VI
Project Report
(Total Credits: 4)

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B. Sc. Part III Semester-VI
AECC-VI
German and French Language
(Total Credits: 4)

Course Outcomes:

German

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 every day 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.
4. **Regarding writing skills:** The students are able to fill in easy forms, write greeting cards, invitations and short personal announcements.
5. 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.

French

1. This course is conceptualized on the principals of ALTE (Association of Language Testes in Europe) and of the to develop speaking, reading and writing skills in French language to the extent that the students can understand basic instructions, can complete forms and write short notes and can take part in conversations on day-to-day matters.
2. At the end of the course the students will have acquired the knowledge of "Basic Language Use" and will possess basic functional ability to communicate and exchange information in a simple way.

Unit-I   Irregular verbs, Personalpronomen in Akkusativ   **(15 Periods)**
    1.1 Vocabulary regarding ordering the food in restaurant
    1.2 Saying hello and greeting to the waiter in restaurant
    1.3 Vocabulary regarding bills
    1.4 Conjugation of the verbs "nehmen, essen, mögen"

Unit-II   Past tense of the verbs "sein and haben"   **(15 Periods)**
    2.1 Imperative sentences
    2.2 Information regarding Germans food culture
    2.3 Vocabulary regarding shopping in Malls
    2.4 Verbs which are used in polite conversations

Unit-III   French Language   **(15 Periods)**
    3.1 Introduction to French Alphabets
    3.2 Gender of Nouns and their Plural forms, Basic Vocabulary
    3.3 Regular verb conjugation in present tense
    3.4 Personal Pronouns, Numbers, Watch Timings, Articles

Unit-IV   French Language   **(15 Periods)**
    4.1 Possessive Pronouns and possessive adjectives, Auxiliary Verbs and their conjugation
    4.2 Composition – 'Ma famille, Interrogatives (present tense)
    4.3 Conjugation of irregular Verbs in present tense, Futur Proche, Recent past
    4.4 Passé compose, Formation of Questions, Composition – Ma vie

References/Reading List:

1. Begegnungen A 1 + (four lessons) Schubert Publishers, Leipzig, Germany Nouvel En Échanges
2. Studio d A 1 Publisher: Goyal Publishers and Distributors, Delhi.
3. Netzwerk A 1 Publisher: Klett Pubishers Goyal Publishers and Distributors, Delhi.
4. Team Deutsch 1/1 Pubishers: Klett Pubishers Goyal Publishers and Distributors, Delhi.
5. Apprenons le Français
6. French for Dummies

B. Sc. Part III Semester-VI

SEC-VI

(Total Credits: 2)

To be chosen from Uni. Basket of SEC/ SWAYAM Course