



**M.O.P. VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)**

**Choice Based Credit System**

Course of Study for the batch of Candidates

admitted in

2018 – 2019

**ACADEMIC YEAR 2018 – 2019**

**B. A. ECONOMICS**

**Activities / Content with direct bearing on  
Employability/ Entrepreneurship/ Skill Development**

**M.O.P. VAISHNAV COLLEGE FOR WOMEN (AUTONOMOUS), CNNAI-34**  
*(Effective for the Candidates admitted during the academic year 2018-19)*  
**B.A. ECONOMICS**

**Choice Based Credit System**  
**Course of Study for the batch of**  
**Candidates admitted in 2018 – 2019**

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**B.A. ECONOMICS**

**CORE I - INDIAN ECONOMIC DEVELOPMENT – I**

<b>COURSE CODE:</b> 18UECO301	<b>YEAR / SEMESTER:</b> I / I	<b>MAXIMUM MARKS:</b> 100
<b>COURSE TYPE:</b> THEORY	<b>CREDITS:</b> 4	<b>TOTAL TEACHING HOURS:</b> 60

**GENERAL OBJECTIVE:**

To outline the importance of factors of economic development and assess the performance of agriculture in India's economic development

**COURSE OBJECTIVES (Co):**

Co No.	Course Objective
Co1	To compare and contrast the concepts of growth, development and underdevelopment
Co2	To assess the importance and contribution of savings and investment to economic growth
Co3	To highlight the importance of human capital in economic development
Co4	To describe the contribution of agriculture and highlight the role of food security
Co5	To critically evaluate the role of Green Revolution in improving agricultural productivity

**COURSE CONTENT:**

**Unit - I**

Concept of Economic Growth and economic development - Factors determining economic development - Economic and non-economic factors impeding economic development - Features of Indian Economy.

(12 hours)

**Unit - II**

Capital formation - Savings and investment pattern - Indian national income - Sectoral contributions since 1991 - Trends in per capital income since 1991.

(12 hours)

**Unit III**

Concept of Human Resources - Role of human capital - Production policy - Human Development Index (HDI).

(12 hours)

**Unit - IV**

Agriculture - Its contribution to economic development - Food problem and food security - Recent trends in agriculture - Agricultural policy.

(12 hours)

**Unit - V**

Role of technology - Green Revolution - agricultural productivity.

(12 hours)

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**TEXT BOOK:**

- P. K. Dhar (2018), Indian Economy – Its Growing Dimensions, Kalyani Publications 25th edition.

**REFERENCE BOOKS**

- Uma Kapila (2017-18) Indian Economy: Performance and Policies, Academic Foundation Publications, 18<sup>th</sup> edition
- Dutt and Sundaram (latest edition), Indian Economy, Sultan Chand & Sons- New Delhi.
- I. C. Dhingra (latest edition) Indian Economy, Sultan Chand & co., New Delhi.
- S.Shankaran (latest edition) Indian Economy – Margham Publications, Chennai latest edition
- Misra and Puri (2011) Indian Economy-Himalaya Publishing House, Mumbai.

**WEB RESOURCES:**

- <http://home.fau.edu/sghosh/web/images/India%20talk.pdf>
- [http://www.worldwidejournals.com/international-journal-of-scientific-research-\(IJSR\)/file.php?val=May\\_2015\\_1430491475\\_114.pdf](http://www.worldwidejournals.com/international-journal-of-scientific-research-(IJSR)/file.php?val=May_2015_1430491475_114.pdf)
- <http://www.economicdiscussion.net/articles/capital-formation-meaning-process-and-other-details/1543>
- <http://www.eenadupratibha.net/Content/PublishFiles/907E2777-63D3-409C-9D13-919518079E8C/start.html#>
- <http://conversableeconomist.blogspot.com/2012/01/indias-economic-growth-puzzles-issues.html>
- <https://www.ukessays.com/essays/economics/human-development-index-hdi-india-2718.php>
- <https://www.ibef.org/industry/agriculture-india.aspx>
- <https://sol.du.ac.in/mod/book/view.php?id=1735&chapterid=1693>
- <https://onlinelibrary.wiley.com/doi/full/10.1002/app5.62>
- <http://www.ibtimes.com/bengal-famine-1943-man-made-holocaust-1100525>
- <https://www.ibef.org/industry/science-and-technology.aspx>
- <https://www.icarda.org/features/second-green-revolution>

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**ACTIVITY PLANNER**

**List of activities for Employability / Skill Development / Entrepreneurship Skill Development**

(These activities are only indicative. Subject faculty can innovate)

<b>S.N O.</b>	<b>DESCRIPTION OF ACTIVITY</b>	<b>ACTIVITIES THAT HAVE A DIRECT BEARING ON SKILL DEVELOPMENT (SD)</b>	<b>ACTIVITIES THAT HAVE A DIRECT BEARING ON EMPLOYABIL ITY (EM)</b>	<b>ACTIVITIES THAT HAVE A DIRECT BEARING ON ENTREPRENEUR SHIP (EN)</b>
1	Comparative analysis: India in comparison to developed, developing and underdeveloped countries; HDI of India in comparison to other countries	Research skills, Presentation skills		
2	Group Discussion :Topic- “Role of Savings and investments in Economic development”	Interactive learning		
3	Group Presentation: Suggestions to improve quality of Human Resources in India	Critical thinking skills, Presentation skills		
4	MCQ quiz: Agricultural sector		Competitive exam skills	
5	Debate: Green revolution	Critical thinking skills		

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**COURSE OUTCOMES:**

On completion of the course the student will be able to

<b>CO No.</b>	<b>COURSE OUTCOME</b>	<b>PSOs ADDRESSED</b>	<b>COGNITIVE LEVEL</b>
<b>CO 1</b>	Critically analyse the differences between economic growth and economic development	<b>1</b>	<b>U, E</b>
<b>CO 2</b>	Outline the role of savings and capital formation in economic development	<b>2</b>	<b>An</b>
<b>CO 3</b>	Compare India's HDI with that of the other economies of the world	<b>2</b>	<b>An</b>
<b>CO 4</b>	Evaluate the performance of agricultural sector and its contribution to the Indian economy	<b>2</b>	<b>E, An</b>
<b>CO 5</b>	Analyse the contribution of Green Revolution in providing food security in India	<b>2</b>	<b>An</b>

**\*PSO – Programme Specific Outcome; Co – Course Objective; CO – Course Outcome; R- Remember; U- Understand; Ap – Apply; An – Analyse; E- Evaluate; C – Create**

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**CORE II – STATISTICS**  
**COMMON TO B.Com A&F, B.Com MM, B.Com CS, B.A Economics**

**GENERAL OBJECTIVE:**

To provide conceptual knowledge of statistics, apply various statistical measures, develop problem solving skills needed in data analysis and interpretation in global environment.

<b>COURSE CODE: 14UMAT307&amp; 14UMAT307P</b>	<b>YEAR/SEMESTER: I/I</b>	<b>MAXIMUM MARKS: 100</b>	<b>Theory: 80marks</b>
			<b>Practical: 20marks</b>
<b>COURSE TYPE:THEORY &amp; PRACTICAL</b>	<b>CREDITS: 4</b>	<b>TOTALTEACHING HOURS: 60</b>	<b>Theory: 45 hours</b>
			<b>Practical: 15hours</b>

**COURSE OBJECTIVES (Co):**

<b>Co. No.</b>	<b>Course Objective</b>
<b>Co-1</b>	To recognize various data collection methods, present data using suitable measures of <b>diagrammatic representation</b> and compute <b>mean, median, mode of the data.</b>
<b>Co-2</b>	To measure the extent of variability of a frequency distribution using measures of dispersion. - <b>Range, Quartile deviation, Mean deviation, Standard deviation.</b>
<b>Co-3</b>	To compute the degree of association between two variables using <b>correlation</b> and identify their linear relationship through <b>regression analysis.</b>
<b>Co-4</b>	To identify the appropriate tools of hypothesis testing ( <b>large sample tests, small sample tests, Chi-square tests</b> ) and draw relevant conclusions in decision making.
<b>Co-5</b>	To equip students with various <b>forecasting techniques</b> and knowledge on modern statistical methods for <b>analyzing time series data.</b>
<b>Co-6</b>	To understand the fundamental concepts of probability, index numbers and <b>construct index numbers</b> using simple aggregative method, <b>Laspeyres, Paasche's, Bowley's and Fischer's method.</b>

**UNIT I**

**Data Presentation and Measures of Central Tendency**

Introduction, Meaning, Definition, Scope and Limitations of Statistics, Collection, Classification and Tabulation of Statistical data, **Diagrammatic and Graphical Presentation of Statistical data**, Measures of Central Tendency – **Mean, Median and Mode.**

(8 hours)

**UNIT II**

**Measures of Dispersion**

Introduction, Significance, Range, **Quartile deviation, Mean deviation, Standard deviation, Co-efficient of variation.**

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**Correlation and Regression**

Introduction, Significance, Types of correlation, Karl Pearson's co-efficient of correlation and Rank co-efficient of correlation, Regression Analysis (except bivariate frequency distribution).

(9 hours).

**UNIT III**

**Tests of Hypothesis**

Introduction, Procedure of Testing Hypothesis, Two types of Errors, One tailed and two tailed tests, Standard Error.

**Large samples**- Tests of significance for Single Mean, Difference of Means.

**Small Samples**- t test for Single Mean, Difference of Means, Paired t test.

**Non-Parametric test**- Chi-Square for goodness of fit (excluding fitting of distributions) and test for association of attributes.

(9 hours)

**UNIT IV**

**Analysis of Time series**

Introduction, Components of time series, Measurement of Trend- Graphic Method, Method of Semi-averages, Method of Moving Averages, Method of Least Squares, Measurement of seasonal variations - Method of Simple Averages (Weekly, Monthly or Quarterly), Simple Problems.

(9 hours)

**UNIT -V**

**Probability**

Introduction, Definitions, Addition and Multiplication Theorem, Conditional probability, Baye's theorem, Simple Problems (Statement only for all the theorems).

**Index Numbers**

Introduction, Uses of Index Numbers, Methods of Constructing Index Numbers: Unweighted Index Numbers- Simple Aggregative Method, Weighted Index Numbers – Laspeyres, Paasche's, Bowley's and Fischer's Ideal Index numbers, Tests of Adequacy of Index number Formulae – Time and Factor Reversal Tests, Cost of living index- Aggregate Expenditure Method, Family Budget Method.

(10 hours)

**TEXT BOOKS:**

- S.P. Gupta (2008) Statistical methods, Sultan Chand & Sons.

**REFERENCES:**

- P. R. Vittal (2009), Mathematical Statistics, Margham Publications.
- Murray R Spiegel, Larry J Stephen (1999) Schaum's Outline of Theory & Problems of Statistics, Mcgraw Hill.
- Sharma (2007), Business Statistics, Pearson Education.
- G C. Beri (2005) Business Statistics, Tata Mcgraw Hill.



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**E RESOURCES**

*Web links*

- [www.slideshare.net](http://www.slideshare.net)
- [Wolfram MathWorld: The Web's Most Extensive Mathematics Resource](#)

*YouTube Video links*

- <https://youtu.be/BiLIcCtXmm0>
- <https://youtu.be/wRZwrcPnmc4>
- <https://www.youtube.com/watch?v=VK-rnA3-41c>
- <https://www.youtube.com/watch?v=FpSTneHuPjM&list=RDCMUCqedkv6AYxh3hk99EPtGlmQ&index=3>
- <https://www.youtube.com/watch?v=KT726O6gDZY>

**ACTIVITY PLANNER**

**List of activities for Employability / Skill Development / Entrepreneurship Skill Development**

(These activities are only indicative, the Faculty member can innovate)

- **Class presentation**: Students make presentation on data pertaining to income/expenditure/savings of residents living in their area using appropriate tools of diagrammatic and graphical representation.
- **Assignments**: Students solve problems on mean, median, mode, Quartile deviation, Standard deviation, Coefficient of variation
- **Individual learning**: Students are divided into groups and each group is assigned a task of computing Karl Pearson's co-efficient of correlation between related variables (Internal assessment and End semester marks, income and expenditure etc.) and obtain its linear relationship using regression analysis.
- **Concept Mapping on Testing of hypothesis**: Map a particular situation in (local/national/global) environment with appropriate tests of hypothesis to draw conclusions.
- **Case study Analysis** on Financial forecasting: Students analyze financial data and predict future revenues using methods of time series such as Method of Moving averages, Method of Least Squares.
- **Real time reactions**: Class interactive session on different methods of constructing index numbers to measure trends in wide variety of areas including stock market prices, cost of living, industrial and agricultural productions and imports.
- Students find Mean, Median, Mode, standard deviation by applying excel tools

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**COURSE OUTCOMES:**

On completion of the course the students will be able to

<b>CO No:</b>	<b>COURSE OUTCOME</b>	<b>PSO's ADDRESSED</b>	<b>COGNITIVE LEVEL</b>
CO1	Determine the measures of central tendency, present data using various diagrammatic/graphical representation and use them as an effective tool of analysis in national/global environment.	<b>1,3</b>	<b>E</b>
CO2	Explain the spread of frequency distribution using measures of dispersion and employ correlation & regression methods to analyse and interpret data.	<b>2,4</b>	<b>E</b>
CO3	Choose appropriate statistical analysis tools, apply them in business scenario to draw conclusions and develop decision making skills needed for employment/entrepreneurship.	<b>1,2,4</b>	<b>E</b>
CO4	Evaluate trend, seasonal variations using components of time series to predict the effect of environmental changes for sustainable development.	<b>2,4</b>	<b>E</b>
CO5	Determine index numbers using different methods and solve problems based on the concepts of probability in real world scenario.	<b>1,2,4</b>	<b>E</b>

**PSO – Programme Specific Outcome; Co – Course Objective; CO – Course Outcome;  
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**CORE II - STATISTICS PRACTICAL**

- **DIAGRAMMATIC REPRESENTATION**  
Column, Bar Diagram, Line, Pie and Area
- **METHODS OF CENTRAL TENDENCY**  
Mean, Median, Mode.
- **MEASURES OF DISPERSION**  
Standard deviation, Quartile deviation, Range
- **CORRELATION**  
Correlation co-efficient  
Rank Correlation (without repeated ranks)  
Regression co-efficient and Regression lines
- **TESTS OF SIGNIFICANCE**  
Small samples- t test for single mean, difference of means and paired t test.  
Chi-square test for independence of attributes.

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**ALLIED I– ENTREPRENEURSHIP DEVELOPMENT AND SMALL BUSINESS  
MANAGEMENT**  
**COMMON TO B. Com (Accounting & Finance), B. Com (Marketing Management),  
B.Com (Corporate Secretaryship ) B.Com (Honours), B.B.A & B.A (Economics)**

<b>SUBJECT CODE: 15UMAN306</b>	<b>YEAR / SEMSTER: I / I</b>	<b>MAXIMUM MARKS: 100</b>
<b>COURSE TYPE: THEORY</b>	<b>CREDITS: 5</b>	<b>TOTAL TEACHING HOURS: 75</b>

**GENERAL OBJECTIVE**

To develop and strengthen the entrepreneurial skill sets in students and motivate them to start their business venture.

**COURSE OBJECTIVES (Co):**

<b>Co No.</b>	<b>Course Objective</b>
<b>Co1</b>	To present the various aspects of entrepreneurship for successful business venture
<b>Co2</b>	To know the parameters to assess opportunities and constraints of starting a new business venture
<b>Co3</b>	To understand the key concepts and ideas to run family owned business ventures
<b>Co4</b>	To prepare B Plans and Project Appraisals Reports
<b>Co5</b>	To understand the systematic process of setting up a business unit

**UNIT I**

**Concept of Entrepreneurship**

Entrepreneurship – Meaning, Types, Qualities of an Entrepreneur, Classification of Entrepreneurs - Factors influencing Entrepreneurship - Functions of Entrepreneur-Economic development and entrepreneurial growth

(15 hrs)

**UNIT II**

**Entrepreneurship process**

Innovation & entrepreneurship

Idea generation- Business research and opportunity analysis,

Feasibility study - Marketing, Finance, Technology & Legal Formalities-Project appraisal, Preparation of Project Report

(15 hrs)

**UNIT III**

**Steps for establishing an unit**

Steps for Setting up a Business: Registration, Licensing, Funding, ownership structure and legal formalities, Entrepreneurship development & funding agencies

(20 hrs)

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**UNIT IV**

**Family business management**

Family owned business-meaning, importance, types, history, pitfalls, succession issues. Strategies for improving family business performance, Professional Vs family entrepreneurs, Women inheritance- Women entrepreneurship

(13 hrs)

**UNIT V**

**Business plan**

**B-Plan writing**- Meaning, process, detailing and contents of a B-plan, features of a good B-plan, Types of B-Plans

(12 hrs)

**TEXT BOOKS:**

- Jayashree Suresh. , (Reprint 2016) Entrepreneurial Development, Margham Publications. Chennai-17, Fifth Edition (2011)

**REFERENCE BOOKS:**

- Charantimath Poornima, (Reprint 2012.), Entrepreneurship development-Small Business Enterprises Pearson Education, Seventh Edition
- Raj Shankar, (Reprint 2012), Entrepreneurship Theory and Practice, Vijay Nicole and Imprints Pvt. Ltd.
- Vasant Desai, (Reprint 2015). Dynamics of Entrepreneurial Development & Management Ninth Edition. Himalaya Publishing House. Mumbai
- E. Gordon & K. Natrajan (Reprint 2015) Entrepreneurship Development, Himalaya Publishing House, 2013
- Dr. C.B. Gupta & Dr. S.S. Khanka (Reprint 2014). Entrepreneurship And Small Business Management. Sultan Chand & Sons. Fifth Edition

**WEB RESOURCES:**

- What is entrepreneurship? - <https://youtu.be/MdNNGfoxrqA>
- Who is an entrepreneur - <https://youtu.be/aozlwC3XwfY>
- Concept of entrepreneurship - <https://youtu.be/hnBla1FfcLo>
- Feasibility studies - [https://youtu.be/k5-d\\_G5itpQ](https://youtu.be/k5-d_G5itpQ)
- Innovation and entrepreneurship - <https://youtu.be/m1BWF3aPjdo>
- Top 5 lessons from most successful entrepreneurs- <https://youtu.be/e1rEHiuDtuc>
- Family businesses in India - [https://youtu.be/SCL\\_cxHTIFA](https://youtu.be/SCL_cxHTIFA)
- <https://youtu.be/YbRdjrsRxP0>
- [https://youtu.be/-i\\_hTl6tg1c](https://youtu.be/-i_hTl6tg1c)
- <https://youtu.be/Q3QblhweXN8>
- <https://www.youtube.com/watch?v=CSIYG9qDKkM>
- <https://hbr.org/2002/08/creativity-under-the-gun>
- <https://hbr.org/2004/07/darwin-and-the-demon-innovating-within-established-enterprises>
- <https://hbr.org/2002/08/the-discipline-of-innovation>
- <https://www.bcg.com/publications/most-innovative-companies-historical-rankings>

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<https://hbswk.hbs.edu/archive/the-hard-work-of-failure-analysis>

- [https://www.academia.edu/186633/Handbook\\_of\\_Research\\_on\\_High\\_Technology\\_Entrepreneurs](https://www.academia.edu/186633/Handbook_of_Research_on_High_Technology_Entrepreneurs)
- <https://www.newyorker.com/magazine/2005/09/05/the-bakeoff>

**ACTIVITY PLANNER**

**List of activities for Employability / Skill Development / Entrepreneurship Skill Development**

(These activities are only indicative. Subject faculty can innovate)

<b>S.N O.</b>	<b>DESCRIPTION OF ACTIVITY</b>	<b>ACTIVITIES THAT HAVE A DIRECT BEARING ON SKILL DEVELOPMENT (SD)</b>	<b>ACTIVITIES THAT HAVE A DIRECT BEARING ON EMPLOYABIL ITY (EM)</b>	<b>ACTIVITIES THAT HAVE A DIRECT BEARING ON ENTREPRENEUR SHIP (EN)</b>
1	Business Model Canvas: doing value proposition analysis of a new business idea (one of the functions of an entrepreneur)	B-Plan writing		Practical training to assess the viability of a business idea
2	Case Study: <ul style="list-style-type: none"> <li>• Successful entrepreneurs</li> <li>• Failed business idea</li> </ul>	Interactive learning		
3	Group Presentation: Women Entrepreneurs: Micro, Small and medium enterprises	Presentation skills		

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**COURSE OUTCOMES**

On completion of the course the student will be able to

<b>COs</b>	<b>Course Outcome</b>	<b>PSOs Addressed</b>	<b>Cognitive Level</b>
<b>CO 1</b>	Examine the significance of entrepreneurship and the role of entrepreneurs in the economic growth of India	<b>1</b>	<b>An</b>
<b>CO 2</b>	Outline and analyze the opportunities and constraints in developing Global Business Ideas	<b>3</b>	<b>An</b>
<b>CO 3</b>	Summarize the steps involved in setting up a Business	<b>5</b>	<b>C</b>
<b>CO 4</b>	Evaluate the concept and issues of family business management and women entrepreneurship	<b>2</b>	<b>E</b>
<b>CO 5</b>	Prepare a B-Plan and formulate a detailed process for implementation	<b>5</b>	<b>C</b>

**\*R- Remember; U- Understand; Ap – Apply; An – Analyse; E- Evaluate; C – Create**

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**CORE III –MICROECONOMICS I**

<b>COURSE CODE: 18UECO304</b>	<b>YEAR/SEM: I/II</b>	<b>MAX. MARKS: 100</b>
<b>COURSE TYPE: THEORY</b>	<b>CREDITS: 4</b>	<b>TOTAL TEACHING HOURS:60</b>

**GENERAL OBJECTIVE:**

To develop foundation of the microeconomic principles and economic way of thinking in individual economic decision-making process

**COURSE OBJECTIVES (Co):**

<b>Co No.</b>	<b>Course Objective</b>
<b>Co1</b>	To introduce the <b>foundation concepts</b> and methodology of economic theory
<b>Co2</b>	<b>To elaborate the basic laws of demand and supply and their functioning in the market and daily life</b>
<b>Co3</b>	<b>To explore the concept of consumer equilibrium</b> and changes in consumer behaviour due to changes in prices and income
<b>Co4</b>	To describe the various types of production and cost functions and identify various economies and diseconomies of scale
<b>Co5</b>	To classify different kinds of <b>market structures</b> and price output determination mechanism

**COURSE CONTENT**

**Unit – I: Introduction to Microeconomics**

The scope and methods of economics, scarcity and choice - Basic problems of economic system

Basic Concepts – Production Possibility Frontier, **Opportunity Cost**, Equilibrium, time and efficiency

(10 Hours)

**Unit – II: Demand and Supply Analysis**

**Demand** – demand function, determinants, law of demand, **shifts in demand**, Elasticity of demand – price, income, cross, factors affecting elasticity of demand, measurement of elasticity of demand, applications of elasticity of demand, Supply- supply function, determinants, law of supply, supply curves, Elasticity of supply and its application

(15 Hours)

**Unit – III: Consumer Behaviour**

Cardinal utility Analysis –law of diminishing marginal utility, law of equi-marginal utility **consumer equilibrium**, Ordinal utility analysis – indifference curve and schedule, Marginal Rate of Substitution (MRS), properties of indifference curves, **Consumer equilibrium** -price, income and substitution effects – introduction to revealed preference theory, Concept of consumer surplus

(10 Hours)



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**Unit – IV: Theory of Production and Costs**

Production – short run and long run production function, production function with two variable factors, Costs – cost concepts and classifications, cost output relations, **Economies and diseconomies to the scale of production**

(15 Hours)

**Unit – V: Market Structures – I**

Revenue Concepts, **Market classification** - firm and industry concepts - time element , Price and Output determination under perfect competition and monopolistic competition in the short-run and long run – **non price competition (selling cost)**, excess capacity under monopolistic competition.

(10 hours)

**Text Book:**

- H.L. Ahuja (2018), Advance Economic Theory, S. Chand Publication, 21e
- Robert Pindyck and Daniel Rubinfeld (2017), Microeconomics, Pearson Publication, 8<sup>th</sup> edition

**Reference Books:**

- Paul A Samuelson & William D Nordhaus (2013), Economics, McGraw Hill Publication, 19e
- Karl E. Case and Ray C. Fair (2007), Principles of Economics, Pearson Education Inc., 8th Edition.
- N. Gregory Mankiw, Economics: Principles and Applications (2007), India edition by South Western, a part of Cengage Learning, Cengage Learning India Private Limited, 4th edition.
- Joseph E. Stiglitz and Carl E. Walsh (2007), Economics, W.W. Norton & Company, Inc., New York, International Student Edition, 4th Edition.

**WEB RESOURCES:**

- <https://openstax.org/details/books/principles-microeconomics-2e>
- [https://ocw.mit.edu/ans7870/14/14.01SC/MIT14\\_01SCF11\\_rtttext.pdf](https://ocw.mit.edu/ans7870/14/14.01SC/MIT14_01SCF11_rtttext.pdf)
- <https://www.youtube.com/watch?v=Vss3nofHpZI&list=PL61533C166E8B0028&index=1>
- <https://www.businessstopia.net/economics/micro/uses-price-elasticity-demand-business-decision-making>
- <https://mh.bmj.com/content/29/2/81.full>
- <https://www.investopedia.com/ask/answers/042215/what-difference-between-economies-scope-and-economies-scale.asp>
- [https://www.researchgate.net/publication/326122139\\_Regulating\\_monopoly\\_price\\_discrimination](https://www.researchgate.net/publication/326122139_Regulating_monopoly_price_discrimination)
- [https://link.springer.com/chapter/10.1007/978-1-349-01860-4\\_2](https://link.springer.com/chapter/10.1007/978-1-349-01860-4_2)
- <https://fee.org/articles/competition-monopoly-and-the-role-of-government/>

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**ACTIVITY PLANNER**

**List of activities for Employability / Skill Development / Entrepreneurship Skill Development**

(These activities are only indicative. Subject faculty can innovate)

S.NO.	DESCRIPTION OF ACTIVITY	ACTIVITIES THAT HAVE A DIRECT BEARING ON SKILL DEVELOPMENT (SD)	ACTIVITIES THAT HAVE A DIRECT BEARING ON EMPLOYABILITY (EM)	ACTIVITIES THAT HAVE A DIRECT BEARING ON ENTREPRENEURSHIP (EN)
1	Individual Assignment: Take a survey of the selfishness of at least 10 random people and record your observations	Research Skills		
2	<b>Class activity</b> Step I: identify the things you wish to buy when on a shopping Step 2: Do you have enough money to buy all that you want or no? If no how will you decide what to buy and what to leave?			Allocation of Resources and making choices
3	Activity: Prepare an elaborate list of items used at home and classify them in various categories of goods. Record the changes in purchase with a change in prices and comment on elasticity of demand	Experiential Learning Economic way of thinking		
4	Group Activity: Preparation of MCQs: ALL Units	Critical Thinking	Competitive Exam Skills	

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5	Class activity: Drawing of indifference curve, budget line and equilibrium with the help of hypothetical data.	Illustration skills		
6	Class discussion: “How do you spend pocket money received from your parents? Justify.”		Application of economic concepts (Consumer utility analysis) to expenditure in real life	
7	Panel Discussion: Topic: “Are Large scale industries more efficient in capacity utilization?”	Interactive learning		
8	Class Discussion: Importance of Selling Costs in monopolistic competition	Participatory learning		

**COURSE OUTCOMES:**

On completion of the course the student will be able to

<b>CO No.</b>	<b>COURSE OUTCOME</b>	<b>PSOs ADDRESSED</b>	<b>COGNITIVE LEVEL</b>
<b>CO 1</b>	Define, elaborate and examine core economic terms, concepts, and methodology of microeconomics	<b>1</b>	<b>E</b>
<b>CO 2</b>	Graphically illustrate and critically explain various laws and theories	<b>1</b>	<b>E</b>
<b>CO 3</b>	Develop rational thinking in consumer decision making process	<b>4</b>	<b>C</b>
<b>CO 4</b>	Elaborate and test the relationship between short run and long run production function, short run and long run cost functions	<b>1, 2</b>	<b>E</b>
<b>CO 5</b>	Distinguish between the various forms of market and establish market equilibrium under perfect competition and monopolistic competition	<b>2</b>	<b>An</b>

**\*PSO – Programme Specific Outcome; Co – Course Objective; CO – Course Outcome; R- Remember; U- Understand; Ap – Apply; An – Analyse; E- Evaluate; C – Create**

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**CORE IV - INDIAN ECONOMIC DEVELOPMENT – II**

<b>COURSE CODE:18UECO303</b>	<b>YEAR / SEMESTER: I / II</b>	<b>MAXIMUM MARKS: 100</b>
<b>COURSE TYPE: THEORY</b>	<b>CREDITS: 4</b>	<b>TOTAL TEACHING HOURS:60</b>

**GENERAL OBJECTIVE:**

To assess the performance of industries, international trade and role of planning in India's economic development

**COURSE OBJECTIVES (Co):**

<b>Co No.</b>	<b>Course Objective</b>
<b>Co1</b>	To examine the <b>Industrial progress</b> and reforms in the <b>industrial sector</b>
<b>Co2</b>	To assess role of <b>trade unions</b> and <b>social security measures in India</b>
<b>Co3</b>	To highlight the importance of <b>infrastructure</b> in economic development
<b>Co4</b>	To critically evaluate the role of planning in India
<b>Co5</b>	To describe <b>globalization</b> and role of WTO in India

**COURSE CONTENT**

**Unit – I**

Role of **industries** in **economic development**, Concept of Micro, Small, Medium Enterprises (MSMEs), Industrial Policy since 1991, Industrial Finance.

(12 hours)

**Unit – II**

Industrial Relations, **Trade Unions** and Labour Unrest, **Social security schemes**, Rural Employment Generation schemes.

(12 hours)

**Unit – III**

**Infrastructure** – meaning and role, Roadways, Railways, Shipping, Airways, Communication

(12 hours)

**Unit – IV**

Planning in India – role and features, Plans- 10<sup>th</sup> five year plan, 11<sup>th</sup> five year plan, 12<sup>th</sup> five year plan, NITI Aayog, Concept of inclusive growth

(12 hours)

**Unit – V**

**Globalization**, EXIM policy, India's foreign trade and balance of payments, WTO and India

(12 hours)

**TEXT BOOK:**

- P. K. Dhar (2018), Indian Economy – Its Growing Dimensions, Kalyani Publications 25<sup>th</sup> edition.

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**REFERENCE BOOKS**

- Uma Kapila (2017-18) Indian Economy: Performance and Policies, Academic Foundation Publications, 18<sup>th</sup> edition
- Dutt and Sundaram (2018), Indian Economy, Sultan Chand & Sons- New Delhi.
- I. C. Dhingra (2018) Indian Economy, Sultan Chand & co., New Delhi.
- S.Shankaran (2018) Indian Economy – Margham Publications, Chennai latest edition
- Misra and Puri (2018) Indian Economy- *Himalaya Publishing House*, Mumbai.

**WEB RESOURCES:**

- <http://www.economicsdiscussion.net/industries/role-of-industries-in-indian-economy/29539>
- <http://www.naukrihub.com/industrialrelations>
- <http://www.economicsdiscussion.net/infrastructure/infrastructure-meaning-and-importance-economic-growth-economics/30223>
- <http://www.economicsdiscussion.net/india/planning/planning-in-india-an-overview/11087>
- <https://www.livemint.com/Opinion/S0FE91jpvLOv4bn4aVdBNK/Why-inclusive-growth-is-indispensable-to-India.html>
- <http://www.insightsonindia.com/2016/01/20/india-and-wto-detailed-analysis-of-all-related-issues-and-concepts/>

**ACTIVITY PLANNER**

**List of activities for Employability / Skill Development / Entrepreneurship Skill Development**

(These activities are only indicative. Subject faculty can innovate)

S.N O.	DESCRIPTION OF ACTIVITY	ACTIVITIES THAT HAVE A DIRECT BEARING ON SKILL DEVELOPMENT (SD)	ACTIVITIES THAT HAVE A DIRECT BEARING ON EMPLOYABI TY (EM)	ACTIVITIES THAT HAVE A DIRECT BEARING ON ENTREPRENEU RSHIP (EN)
1	Class discussion: Industries in pre and post reform era	Communication skills		
2	Group presentation: Role of Trade Unions; Assignment: Evaluation of social security schemes for women	Collaborative learning, Writing skills and evaluation skills		

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3	MCQ quiz on various infrastructure development programmes		Competitive exam skills	
4	MCQ quiz on Economic survey of India		Competitive exam skills	
5	Debate: Impact of Globalization	Critical thinking skills		

**COURSE OUTCOMES:**

On completion of the course the student will be able to

<b>CO No.</b>	<b>COURSE OUTCOME</b>	<b>PSOs ADDRESSED</b>	<b>COGNITIVE LEVEL</b>
<b>CO 1</b>	Analyse the progress of industries and industrial policy	<b>2</b>	<b>An</b>
<b>CO 2</b>	Evaluate the role of Trade unions and various social security measures	<b>5</b>	<b>E</b>
<b>CO 3</b>	Outline the importance of infrastructural development in the economy	<b>1</b>	<b>An</b>
<b>CO 4</b>	Critically examine Planning in India	<b>5</b>	<b>An</b>
<b>CO 5</b>	Examine the need for and role of foreign trade in a country's economic development	<b>1, 2</b>	<b>An</b>

**\*PSO – Programme Specific Outcome; Co – Course Objective; CO – Course Outcome; R- Remember; U- Understand; Ap – Apply; An – Analyse; E- Evaluate; C – Create**

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**ALLIED II-MATHEMATICS FOR ECONOMICS**

<b>COURSE CODE: 18UMAT304</b>	<b>YEAR/SEMESTER: I/II</b>	<b>MAXIMUM MARKS: 100</b>
<b>COURSE TYPE: THEORY</b>	<b>CREDITS: 5</b>	<b>TOTAL TEACHING HOURS: 75</b>

**COURSE OBJECTIVES (Co):**

<b>CoNo.</b>	<b>Course Objective</b>
<b>Co1</b>	To understand and solve linear, quadratic and simultaneous equations
<b>Co2</b>	To perform addition, subtraction, multiplication and transpose of matrices and apply determinants in solving simultaneous equations using Cramer's rule.
<b>Co3</b>	To understand the rules of differentiation, derive standard results and obtain the derivatives for simple algebraic equations.
<b>Co4</b>	To apply differentiation for finding total, average, marginal cost/revenue functions, obtain their maxima/minima and elasticity of demand.
<b>Co5</b>	To understand the basic rules of integration, apply methods of integration to compute consumer's and producer's surplus.

**UNIT I**

**Algebra**

Linear Equations, Quadratic Equations, Simultaneous Equations, Solutions of Simultaneous Equations, Applications in economics.

(10 hours)

**UNIT II**

**Matrices and Determinants**

Matrices – addition, subtraction, multiplication, Transpose of a matrix – Properties of transpose of matrix, Determinants – properties of determinants (only statements), Inverse of a matrix using cofactor method, Solution of simultaneous equations using Cramer's rule, Application of matrices and determinants in economics.

(15 hours)

**UNIT III**

**Differential Calculus (only algebraic functions)**

Differential calculus – its relation to marginal analysis, Process of differentiation, rules of differentiation, Standard results, Derivatives of second order, Application of second derivative - Maximum and minimum values of a function (Simple Problems)

(20 hours)

**UNIT IV**

**Applications of Simple Derivatives**

Differential coefficient and point elasticity of demand, Total, average and marginal cost, Relations between average and marginal cost, Minimum average cost, Total, average and marginal revenue, Maximum total revenue, Conditions of profit maximization (Simple Problems), Relationship between Average Revenue, Marginal Revenue and Elasticity of demand.

(15 hours)

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**UNIT V**

**Integral Calculus (only algebraic functions)**

Basic rules of integration, Method of Integration - Substitution Method, Some Definite integrals, Applications – Total cost function, Total Revenue, Average Revenue, Consumer's surplus, Producer's surplus (Simple Problems)

**(15 hours)**

**TEXT BOOK**

- B.C Mehta & G. M. K Madnani (2014), Mathematics for Economics, Sultan Chand and Sons, 9<sup>th</sup> edition (reprint 2014)  
Unit I: Chapter 3: 3.1  
Unit II: Chapter 5: 5.1,5.2,5.3,5.4,5.5,5.6,5.10,5.13,5.15  
Unit III: Chapter 6: 6.2,6.3,6.4,6.5,6.8,6.9  
Unit IV: Chapter 7:7.1,7.2,7.3,7.4,7.6,7.7,7.8  
Unit V : Chapter 8:12.3,12.5, Chapter 13:13.1,13.4,13.9,13.10
- D.C. Sancheti, V.K. Kapoor, Business Mathematics, Sultan Chand and Sons, 11<sup>th</sup> edition (reprint 1999)  
Unit II: Page No.: ACE 119 to ACE 133

**REFERENCE BOOKS:**

- Geoff Renshaw (2012), Math for Economics, Oxford University Press 4<sup>th</sup> edition.
- R.S Bhardwaj (2005), Mathematics for Economics and Business, Excel Books, New Delhi, 2<sup>nd</sup> edition
- V Sundaresan & S.D Jeyaseelan (1998), An Introduction to Business Mathematics, S. Chand & Co., New delhi
- Weber, Jean E, (1982), Mathematical Analysis: Business and Economic Applications, Harper and Row Publishers, New York

**E RESOURCES**

*Web links*

- [www.slideshare.net](http://www.slideshare.net)
- [Wolfram MathWorld: The Web's Most Extensive Mathematics Resource](http://Wolfram MathWorld: The Web's Most Extensive Mathematics Resource)

*YouTube Video links*

- <https://www.youtube.com/watch?v=IvLpN1G1Ncg>
- <https://www.youtube.com/watch?v=esxNDR1epeq>
- <https://www.youtube.com/watch?v=YprjxuGo4O0>
- <https://www.youtube.com/watch?v=9VwKtb00v68>
- <https://www.youtube.com/watch?v=8mOgg8Y6wxI>



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**ACTIVITY PLANNER**

**List of activities for Employability / Skill Development / Entrepreneurship Skill Development**

(These activities are only indicative, the Faculty member can innovate)

- **Assignment:** Recognize, practical problems in Economics and obtain its solution using algebraic techniques linear, quadratic, simultaneous equations.
- **Class seminar:** Students make presentation on the properties, different techniques of solving matrices & determinants and its application in economic world.
- **Worksheets** on finding the derivatives of simple algebraic functions using rules and standard results of differential calculus.
- **Real time reactions:** Class interactions on application of Simple derivatives – Students are instructed to discuss about different application of derivatives such as average cost / revenue, Marginal cost/revenue and elasticity of demand, in economics globally.
- **Drag- And-Drop (Ability to link and apply):** Apply appropriate integral calculus techniques to find the solution of producer's & consumer's surplus in Economics.

**COURSE OUTCOMES:**

On completion of the course the students will be able to

CO No:	COURSE OUTCOME	PSOs ADDRESSED	COGNITIVE LEVEL
CO1	Estimate the roots of linear, quadratic and simultaneous equations using appropriate algebraic methods.	1,3	E
CO2	Apply the computational techniques of matrices/ determinants to solve problems in real world scenario.	1,2,4	Ap
CO3	Determine the derivatives of simple algebraic equations using standard rules and results.	1,2	E
CO4	Evaluate the derivatives of simple algebraic functions using standard rules , employ them in managerial decision making and develop decision making skills needed for employment.	1,2,4	E
CO5	Evaluate integrals using methods of integration and compute cost function, revenue function, consumer's and producer's surplus to study the effect of environmental changes.	1,2,4	E

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