

B.COM.
SEMESTER IV
Business Statistics – II (GE 5)
(100 Marks - 60 Lectures)

Unit I Correlation and Regression Analysis (14Lectures -30marks)

Meaning, Types and Methods of studying Correlation, Scatter Diagram, Karl Pearson's Coefficient of Correlation, Spearman's Rank Coefficient of Correlation, Properties of Coefficient of correlation, Linear Regression, Lines of regression and regression coefficients.

Unit II Probability Theory (21Lectures -36 marks)

Elements of Probability-Random Experiments, events, definition of probability, conditional probability, addition and multiplication theorem, Mathematical expectation.

Theoretical Distribution - Random variable, Binomial, Poisson and Normal Distribution.

Unit III Sampling Theory (14Lectures -16 marks)

Methods of sampling- Census and Sample enumeration, Methods of Sampling: Simple Random Sampling, Systematic Sampling, Stratified Sampling, Cluster Sampling, Purposive Sampling, Quota and multi stage sampling (with examples).

Test of Hypothesis and Estimation- Sampling distribution, Standard error, Sample mean and Sample proportion, confidence limits, population mean and population proportion, Procedure for testing of hypothesis, Type I and Type II error, critical region, level of significance, test of significance for large samples.

Unit IV Interpolation and Extrapolation (11Lectures -18marks)

Finite differences, Forward and Backward differences, Forward and Backward difference table, Newton-Gregory forward and backward difference formula for equidistant values of the argument (only applications), Lagrange's Interpolation formula for unequally spaced points (only applications), Shift Operator, Binomial Expansion method to find missing values (maximum 2 missing values).

References:

1. Gupta S.P., *Statistical Methods*, Sultan Chand & sons.
2. Gupta C.B., *Fundamentals of Statistics*, Himalaya Publishing House.
3. Shah R.J., *Statistical Methods*.
4. Mazumdar Neeta, *Statistical Techniques*, RajhaunsVitaran.
5. Sastry S.S., *Introductory Methods of Numerical Analysis*

B.COM
SEMESTER IV
Indian Economy (GE 6)
(100Marks, 60 Lectures)

Objectives:

1. To enable the students to grasp the current economic problems in India.
2. To highlight the important economic sectors and challenges faced by them in the recent years.
3. To acquaint students with the major policy regimes of government to resolve problems in agriculture, industry and service sector of India.
4. To enable students to understand the change in policy focus from central planning to process of market integration of the Indian Economy with other markets in the world.

Unit I Basic Issues in Economic Development (20 Marks, 10 Lectures)

Concept and Measures of Development and Underdevelopment; The concept of economic growth and development, India's recent position in the world economy (based on World Bank GNI per capita), Human Development- concept, the Human Development Index – interpretation of indicator and value & rank of the indicator for India in the world context.

Unit II Basic Features of the Indian Economy (20 Marks, 10 Lectures)

Composition of national income and occupational structure, per capita income; inflation, unemployment, income distribution, poverty); India's population demographics [infant mortality rate, literacy rate, gender composition-female male ratio(issue of missing women) and age structure- concept of demographic dividend]

Unit III Policy Regimes, Growth, Development & Structural Change (30 marks, 20 Lectures)

- a) Review of Planning Policy Experience in India.
- b) Policies for Agricultural and Rural Development (since Green Revolution till recently).
- c) Major Industrial policies under planning- Nehru-Mahalanobis Model and Liberalization, Globalization and Privatization (LPG) model of industrial growth. Evolution of Disinvestment policy of Government.
- d) Economic Reforms since 1991 – in banking sector (Narasimham Committee report main suggestions), capital markets, in the external sector, managed exchange rate system, rupee convertibility, in Government's policy on IT services, FDI, FPI entry in domestic sectors.
- e) The experience of Growth, Development and Structural Change in different phases of growth and policy regimes across sectors and regions.

Unit IV Sectorial Trends and Issues (30 Marks, 20 Lectures)

a) Agriculture Sector:

Nature of Indian Agriculture; Brief evaluation of the agricultural sector (achievements and problems); Agricultural Finance (organized-NABARD, Cooperative and Commercial banks, Micro finance institutions, unorganized sources- moneylenders, landlords, traders etc.); Agricultural Marketing (defects and corrective measures); Government Policy Measures : Minimum Support

Price, Food Security- PDS, TDPS (only meaning and challenges), National Food Security Act 2013(only rationale).Farmers Suicides, Land Acquisition.

b) Industry and Services Sector:

Present structure of industry in the Indian economy; Composition of the Indian industrial sector (organized & unorganized sector, public & private sector, large, medium, small and micro industrial units); Brief evaluation of the industrial sector (achievements and weaknesses); Challenges facing Indian manufacturing; MSME sector – role in the Indian economy and challenges faced. Meaning of Services, importance of services sector in the Indian economy; important components – Information Technology and IT-enabled Services, trade, tourism and travel, transport, telecommunications, real estate and construction, financial services, healthcare and education (contribution to GDP, employment, export earnings (where relevant));

c) External Sector:

Structure, Performance and Reforms: Foreign Trade and balance of Payments: Structural Changes and Performance of India's Foreign Trade and Balance of Payments (value, volume and direction); Export-import policies and their impact on exports and imports. WTO, meaning of major agreements (AOA, MFA, TRIPS, TRIMS etc.) and impact on India (wherever relevant).

References:

1. Ahluwalia I.J. & I.M.D. Little 1998, *India's Economic Reforms & Development: Essays for Manmohan Singh*, Oxford University Press, Delhi.
2. Dreze Jean and Sen Amartya 1996, *Indian Economic Development and Social Opportunity*, Oxford University Press, Delhi
3. Datt R. and Sundaram K.P.M., 2015, *Indian Economy*, S. Chand and Co., New Delhi. 71st edition.
4. Ghosh A. (Latest Edition), *Indian Economy*, World Press, Calcutta.
5. Kapila Raj and Kapila Uma 2001, *India's Economy in the 21st Century: Collection of Select Articles*, Academic Foundation, Ghaziabad.
6. Mishra S K and Puri V. K. 2015, *Indian Economy*, Himalaya Publishing Co., Mumbai. 33rd edition.
7. Patel, I.G. 1998 *Economic Reforms and Global Change*, Macmillan, Delhi.
8. Patnaik, Prabhat. *Some Indian Debates on Planning*. T. J. Byres (ed.). *The Indian Economy: Major Debates since Independence*, OUP.
9. Rangarajan, C. and N. Jadhav. *Issues in Financial Sector Reform*. Bimal Jalan. (ed). *The Indian Economy*. Oxford University Press, New Delhi.
10. Tandon B.B. and Tandon K.K. 2015, *Indian Economy*, Tata McGraw Hill, New Delhi.

Journals

1. EPW
2. Yogana

Websites

1. www.indiabudget.nic.in

2. www.rbi.org.in

3. www.finmin.nic.in

4. www.goldirectory.nic.in