

# NATIONAL UNIVERSITY



## First Year Syllabus Department of Statistics

Four Year B.Sc Honours Course  
Effective from the Session : 2013–2014

# National University

**Subject: Statistics**  
**Syllabus for Four Year B. Sc Honours Course**  
**Effective from the Session: 2013-2014**

## Year wise Papers and marks distribution

### FIRST YEAR

<b>Paper Code</b>	<b>Paper Title</b>	<b>Marks</b>	<b>Credits</b>
213601	Introductory Statistics	100	4
213603	Introductory Probability & Numerical Mathematics	100	4
213604	Lab 1: Descriptive Statistics	50	2
213606	Lab 2: Numerical Mathematics	50	2
213709	Fundamentals of Mathematics	100	4
213711	Calculus-I	50	2
212209	Principles of Economics	100	4
212211	Bangladesh Agricultural Economics	50	2
211501	History of the Emergence of Independent Bangladesh	100	4
	Total =	700	28

## Detailed Syllabus

<b>Paper Code</b>	213601	<b>Marks:100</b>	<b>Credits: 4</b>	<b>Class</b>
<b>Paper Title:</b>	Introduction to Statistics			

**Statistics-Its Definition and Scope:** History of statistics, its definition, nature and characteristics, Methods of statistics, Scope and application of statistics, Abuse of statistics, Primary and secondary sources of data.

**Processing of Data:** Variables & its types, Measurement scales; Attributes, Classification, Characteristic and basis of classification, Array formation. Tabulation, Different types of tables, Frequency distribution.

**Presentation Data:** Graphical presentation of data, Details of different types of graphs and charts with their relative merits and demerits, Exploratory data analysis: Stem-and-leaf plot using the right number of stems,

**Characteristics of Statistical Data:** Measures of location, Dispersion, Moments, Related theorems with their proofs, Skewness, Kurtosis and their properties. Box-and-Whisper plots.

**Relationship between Variables:** Bivariate data, Scattered diagram, Simple correlation, Rank correlation, Correlation ratio, Simple regression analysis. Standard error of estimators of regression coefficients & their properties. Fitting of regression lines.

### Books Recommended:

- |                                    |   |
|------------------------------------|---|
| 1 Islam, M.N.                      | An introduction to Statistics and Probability (4 <sup>th</sup> Ed.)<br>Mullick & Brothers |
| 2 Simpson, G & Kapka, F.           | Basic Statistics.   |
| 3 Mostafa, M.G.                    | Method of Statistics  |
| 4 Kendal, M.G.                     | Advanced Theory of Statistics, Vol – 1& 2   |
| 5 Hoel, P.G.                       | Introduction to Statistics, 4 <sup>th</sup> Edition Wiley and Sons                        |
| 6 Anderson, R.L. and Bancraft, T.A | Statistical Theory in Research  |
| 7 Draper & Smith                   | Applied Regression Analysis, Wiley & Sons   |
| 8 Shil, R.N & Debnuth, S.C         | An introduction to the theory of Statistics   |
| 9 Jalil, M A & Ferdous R           | Basic statistics, Robi Publisher  |

<b>Paper Code</b>	213603	<b>Marks:100</b>	<b>Credits: 4</b>	<b>Class</b>
<b>Paper Title:</b>	Introduction to Probability and Numerical Mathematics			

### Part-A: Introduction to Probability

**Experiments and Related Concepts:** Set theory, Random experiment, Sample space, Event space, Union and intersection of events, Different types of events. Multiplication rule, permutation & combination.

**Basic Concepts of Probability:** Meaning of probability, Scope of probability, Different approaches of defining probability. Theorem on total probability, Conditional probability, Theorems on multiplicative law of probability. Bayes' theorem and its uses & importance in statistics.

**Random Variable:** Discrete and continuous random variables, probability mass function, probability density function. Function of random variable and its probability distribution, joint distribution, marginal and conditional distribution, independence of random variables, mathematical expectation, expectations of sum and products of random variables, conditional expectation and conditional variance. Moments and moment generating functions, Characteristics function, Cumulants and cumulant generating functions, Relationship between moments and cumulants.

**Part-B: Numerical Mathematics**

Differences of a polynomial, Finite difference operator. Factorial notation. Difference equations. Newton's forward and backward interpolation formula. Central difference formula. Gauss's, Stirling's and Bessel's interpolation formula, Lagrange's interpolation formulae. Interpolation with unequal interval of the argument. Inverse interpolation. The accuracy of the interpolation formulae, Numerical differentiation. Numerical integration: General quadrature formula. Numerical integration by different formulae. The accuracy of quadrature formula. Numerical integration for unequal intervals of the arguments. Stirling's formula for factorial N. Numerical solution of equations by various methods, convergence of these methods and their inherent errors. Simultaneous equations in several unknowns. Double interpolation. Function of two variables. Double interpolation by applying single interpolation formula.

**Books Recommended:**

**Part-A: Introduction to Probability**

- 1 Islam, M.N. An introduction to Statistics and Probability (4<sup>th</sup> Ed.), Mullick & Brothers
- 2 Mosteller, Rourket Probability with Statistical Applications.
- 3 Parzen, E Modern Probability and its Application, Wiley & Sons
- 4 Roy, M.K. Fundamentals of Probability and Probability Distributions
- 5 Cramer, H The Elements of Probability, Wiley and Sons
- 6 Hoq. S Probability: An Introduction
- 7 Ross A first Paper in Probability, Collier McMillan
- 8 Shil, R.N & Debnuth, S.C An Introduction to the Theory of Statistics

**Part-B: Numerical Mathematics**

- 1 James B.Scasborough. Numerical Mathematical Analysis
- 2 Freeman, H Finite Differences for Actuarial Statistics
- 3 Mallick, S.A and E.U Ahmed Numerical Mathematics
- 4 Hilderbrand Introduction to Numerical Analysis

<b>Paper Code</b>	213604	<b>Marks:50</b>	<b>Credits: 2</b>	<b>Hours: 30</b>	<b>Class</b>
<b>Paper Title:</b>	<b>Lab-1: Descriptive Statistics</b>				

Condensation and tabulation of data. Formation of frequency distribution from both qualitative and quantitative data. Construction of bivariate table. Graphical representation of data. Measures of location and dispersion, Calculation of moments, Measures of skewness and kurtosis. Simple correlation coefficient and fitting of regression lines. Computation of rank correlation coefficient.

<b>Paper Code</b>	213606	<b>Marks:50</b>	<b>Credits: 2</b>	<b>Class</b>
<b>Paper Title:</b>	<b>Lab 2: Numerical Mathematics</b>			

**Numerical Mathematics:** Problems with operators and polynomials. Uses of interpolation formulae for equal and unequal interval. Newton's forward and backward formula, Stirling's Bssels's and Lagrange's interpolation formula. Newton's divided difference formula, Inverse interpolation, Numerical solution of equation, Numerical integration. Double interpolation.

<b>Paper Code</b>	213709	<b>Marks:100</b>	<b>Credits: 4</b>	<b>Class</b>
<b>Paper Title:</b>	<b>Fundamentals of Mathematics</b>			

- 1. Real Number System:** Field and order properties, Natural numbers, Integers and rational numbers, Absolute value and their properties, Basic inequalities.
- 2. Complex Number System:** Field of Complex numbers, De Moivre's theorem and its applications.
- 3. Theory of equations:** Relations between roots and coefficients, Symmetric functions of roots, Sum of the powers of roots, Synthetic division, Des Cartes' rule of signs, Multiplicity of roots, Transformation of equations.
- 4. Matrices and Determinants:** Notion of matrix, Types of matrices, Algebra of matrices, Determinant function and its properties, Minors, Cofactors, Expansion and evaluation of determinants, Elementary row and column operations and row-reduced echelon matrices, Invertible matrices, Diagonal, triangular and Symmetric matrices.
- 5. System of Linear Equations:** System of linear equations (homogeneous and non-homogeneous) and their solutions, Gaussian elimination, Application of matrices and determinants for solving system of linear equations, Applications of system of equations in real life problems.
- 6. Vector Spaces:** Euclidean  $n$ -space, Real vector spaces, Subspaces, Linear combination of vectors, Linear dependence of vectors, Basis and dimension, Linear transformations, Matrix representation of linear transformation, Kernel and image, Eigenvalues and Eigenvectors.
- 7. Two-dimensional Geometry:** Transformation of coordinates, Pair of straight lines (homogeneous second degree equations, General second degree equations representing pair of straight lines, angle between pair of straight lines, Bisectors of angle between pair of straight lines), General equations of second degree (reduction to standard forms, Identifications, Properties and tracing of conic s).
- 8. Three-dimensional Geometry:** Three-dimensional coordinates, Distance, Direction cosines and direction ratios, Planes and straight lines, Vectors in plane and space, Algebra of vectors, Scalar and vector product, Vector equations of straight lines and planes.

**Books Recommended :**

1. S. Bernard & J M Child- Higher algebra.
2. Howard Anton & Chris Rorres – Elementary Linear Algebra with Application.
3. Khosh Mohammad- Analytic Geometry and Vector Analysis.
4. Md. Abdur Rahman – Linear Algebra.

<b>Paper Code</b>	213711	<b>Marks:50</b>	<b>Credits: 2</b>	<b>Class</b>
<b>Paper Title:</b>	Calculus-I			
			<b>Hours: 30</b>	

**1. Functions & their graphs :** Polynomial and rational functions, logarithmic and exponential functions, trigonometric functions & their inverses, hyperbolic functions & their inverses, combinations of such functions.

**2. Limit and continuity:** Definitions and basic theorems on limit and continuity. Limit at infinity & infinite limits, Computation of limits.

**3. Differentiation:** Tangent lines and rates of change. Definition of derivative. One-sided derivatives. Rules of differentiation . Successive differentiation. Leibnitz's theorem. Related rates. Linear approximations and differentials.

**4. Applications of Differentiation:** Mean value theorem. Maximum and minimum values of functions. Concavity and points of inflection. Optimization problems.

**5. Integration:** Antiderivatives and indefinite integrals. Techniques of integration. Definite integration using antiderivatives. Fundamental theorems of calculus. Basic properties of integration. Integration by reduction.

**6. Applications of Integration:** Arc length. Plane areas. Surfaces of revolution. Volumes of solids of revolution. Volumes by cylindrical shells. Volumes by cross sections.

**7. Approximation and Series:** Taylor polynomials and series. Convergence of series. Taylor's series. Taylor's theorem and remainders. Differentiation and integration of series.

**Books Recommended:**

1. Howard Anton -Calculus (7<sup>th</sup> and forward editions).
2. E.W. Swokowski - Calculus with Analytic Geometry.
3. Md. A Matin & B Chakraborty, - Diferential Calculus.

<b>Paper Code</b>	212209	<b>Marks:100</b>	<b>Credits: 4</b>	<b>Class</b>
<b>Paper Title:</b>	Principles of Economics			
			<b>Hours: 60</b>	

**Fundamentals of Economics:** Definition, Mature and scope of economics, Scarcity of resources, Various forms of economic organization, Three fundamental problems of economics, Production possibility frontier, Opportunity cost, Efficiency and equity.

**Supply and Demand:** Demand and quantity demanded. demand schedule. Demand curve. Supply and quantity supplied, Supply schedule. Supply curve, Equilibrium of supply and demand, Movement along the supply and demand curve and shift of supply and demand curve and its effects of equilibrium price and quantity. Elasticity of supply and demand. Determinants of elasticity of demand.

**The Theory of Consumer Behavior:** Total and Marginal Utility; Law of Diminishing Marginal Utility; Equi-Marginal Utility: Consumer Surplus.

**Production and Cost:** Production Function and Technology: Production with One Variable Input; Production with Two Variable Inputs; Returns to Scale; Costs in the Short-run; Costs in the Long-run.

### **Market Analysis:**

**(A) Perfect Competition:** Characteristics of Perfect Competition; Average and Marginal Revenue; Individual and Market Supply. Short-run equilibrium of a competitive firm Long run Equilibrium under Perfect Competition.

**(B) Monopoly:** Average and Marginal Revenue: Supply Curve of the Monopolist; Perfect Competition and Monopoly Compared;

**Overview of Macro Economics:** Objective and instruments of macroeconomics. National income accounting, gross domestic product, problem of double counting net domestic product, gross national product, from GDP to disposable income. Net economic welfare (NEW).

**International Trade:** Domestic Vs. International trade, Balance of trade vs. Balance of payment- trend of changes in international trade of Bangladesh. Free trade vs. Protection. Comparative advantage theory.

**Growth and Development:** Economic development and economic growth, Measurement of economic development, obstacles to economic development.

**Money:** Definition and functions of money, Importance of money in modern economy- Different concepts of money (M1, M2, M3). Value of money. Concept, causes and effects of inflation and deflation.

**Government Revenue and Expenditure:** Difference between public sector and private sector finance, Different sources of Govt. revenues, taxation and different kinds of taxes. Definition of revenue budget, development budget, revenue budget Vs. Development budget, surplus, deficit and balanced budget.

### **Books Recommended:**

- |   |                                     |   |
|---|-------------------------------------|---|
| 1 | N. Gregory Mankiw                   | Principles of Economics                 |
| 2 | Michael Parkin                      | Any Late Edition, South Western College |
| 3 | Karl Case and Ray Fair              | Principles of Economics                 |
| 4 | Paul Samuelson and William Nordhaus | Economics, McGraw Hill                  |

<b>Paper Code</b>	212211	<b>Marks:50</b>	<b>Credits: 2</b>	<b>Class</b>
<b>Paper Title:</b>	<b>Bangladesh Agricultural Economics</b>			

**Introduction:** Definition of Agricultural Economics, need for a separate study.

**Structure and Characteristics of Traditional Agriculture:** Basic features of traditional agriculture, development in traditional agriculture.

**Contribution of Agriculture to Economic Development:** Product contribution; factor contribution, market contribution and their relative importance; Importance of agriculture for industrial development.

**Types of Farming:** Commercial, cooperative and collective farming; share cropping, subsistence farming Vs. Capitalist farming.

**Agricultural Finance:** Importance of agricultural credit, sources of agricultural credit, institutional and non institutional; functions of rural money markets if the LDCs.

**Land Reform:** Definition, objectives of land reform, features of past and modern land reform, difficulties of implementing land reform.

**Marketing:** Role of agricultural marketing, marketing functions and market structure, market intelligence, imperfections of agricultural marketing in LDCs.

**Role of Government:** Rationale for government intervention in agriculture, protections of farmer's income, price support and input subsidy- a comparative study.

**Books Recommended:**

1	Ghatak and Ingersent	Agriculture and Economic Development
2	Hill and Ingersent	Economic Analysis of Agriculture
3	Mellor	Economics of Agricultural Development
4	Southworth and Johnson	Agricultural Development
5	Barkat, Zaman & Raihan	Political Economy of Khas land
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<b>Paper Code</b>	211501	<b>Marks: 100</b>	<b>Credits: 4</b>	<b>Class Hours: 60</b>
<b>Paper Title:</b>	<b>History of the Emergence of Independent Bangladesh</b>			

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- 2| ALÛ ~^vaxb evsjv ivóª MV#bi cÖqvm I Dcgnv#`#ki wefw³, 1947  
K) Jcwb#ewkK kvmb Avg#j mv#cÖ`vwqKZvi D™#e I we~—vi  
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- 4| fvlv Av#>`vjb I evOvwji AvZ#cwiPq cÖwZôv  
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- 5| mvgwiK kvmb: AvBqye Lv I Bqvwnqv Lv#bi kvmbvgj (1958-71)  
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L) #kL gywReyi ingv#bi 6-`dv Av#>`vjb  
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- 7| 1969-Gi MYAfy"lvb I 11-`dv Av#>`vjb  
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- 9| gyw³hyx 1971  
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- S) cÖevmx evOvwj I weþkji wewfbœ t`þki bvMwiK mgvþRi f~wgKv
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- V) ^vaxbZv msMÖvþg e½eÛzi þbZ...Zj
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- K) ^þ`k cÖZ`veZ©b
- L) msweavb cÖYqb
- M) hyx weaÿ— t`k cybM©Vb
- N) mcwievþi e½eÛz nZ`v I Av`wk©K cUcwieZ©b

## **History of the Emergence of Independent Bangladesh**

**Introduction:** Scope and description of the emergence of Independent Bangladesh.

Writing on this topic.

### **1. Description of the country and its people.**

- a. Geographical features and their influence.
- b. Ethnic composition.
- c. Language.
- d. Cultural syncretism and religious tolerance.
- e. Distinctive identity of Bangladesh in the context of undivided Bangladesh.

### **2. Proposal for undivided sovereign Bengal and the partition of the Sub Continent, 1947.**

- a. Rise of communalism under the colonial rule, Lahore Resolution 1940.
- b. The proposal of Suhrawardi and Sarat Bose for undivided Bengal : consequences
- c. The creation of Pakistan 1947 .

### **3. Pakistan: Structure of the state and disparity.**

- a. Central and provincial structure.
- b. Influence of Military and Civil bureaucracy.
- c. Economic , social and cultural disparity

### **4. Language Movement and quest for Bengali identity**

- a. Misrule by Muslim League and Struggle for democratic politics .
- b. The Language Movement: context and phases .
- c. United front of Haque - Vasani - Suhrawardi: election of 1954, consequences.

### **5. Military rule: the regimes of Ayub Khan and Yahia Khan (1958-1971)**

- a. Definition of military rules and its characteristics.
- b. Ayub Khan's rise to power and characteristics of his rule (Political repression, Basic democracy, Islamisation)
- c. Fall of Ayub Khan and Yahia Khan's rule (Abolition of one unit, universal suffrage, the Legal Framework Order)

### **6. Rise of nationalism and the Movement for self determination .**

- a. Resistance against cultural aggression and resurgence of Bengali culture.
- b. Sheikh Mujibur Rahman and the six point movement
- c. Reactions : Importance and significance
- d . The Agortola Case 1968.

**7. The mass- upsurge of 1969 and 11 point movement: background, programme and significance.**

**8. Election of 1970 and the Declaration of Independence by Bangobondhu**

- a. Election result and centres refusal to comply
- b. The non co-operation movement, the 7<sup>th</sup> March , Address , Operation Searchlight
- c. Declaration of Independence by Bangobondhu and his arrest

**9. The war of Liberation 1971**

- a. Genocide, repression of women, refugees
- b. Formation of Bangladesh government and proclamation of Independence
- c. The spontaneous early resistance and subsequent organized resistance (Mukti Fouz, Mukti Bahini, guerillas and the frontal warfare )
- d. Publicity Campaign in the war of Liberation (Shadhin Bangla Betar Kendra, the Campaigns abroad and formation of public opinion )
- e. Contribution of students, women and the masses (Peoples war)
- f. The role of super powers and the Muslim states in the Liberation war.
- g. The Anti-liberation activities of the occupation army, the Peace Committee, Al-Badar, Al- Shams, Rajakars, pro Pakistan political parties and Pakistani Collaborators , killing of the intellectuals.
- h. Trial of Bangobondhu and reaction of the World Community.
- i. The contribution of India in the Liberation War
- j. Formation of joint command and the Victory
- k. The overall contribution of Bangobondhu in the Independence struggle.

**10. The Bangobondhu Regime 1972-1975**

- a. Homecoming
- b. Making of the constitution
- c. Reconstruction of the war ravaged country
- d. The murder of Bangobondhu and his family and the ideological turn-around.

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1. bxnvi iÄb ivq, *evOvjxi BwZnvm*, †`Ö R cvewjwks, KjKvZv 1402 mvj|
2. mvjvn& Dwİb Avn†g` I Ab`vb` (mæúvw`Z), *evsjv†`†ki gyw³ msMÖv†gi BwZnvm 1947-1971*, AvMvgx cÖKvkbx, XvKv 2002|
3. wmivRyj Bmjvg (mæúvw`Z), *evsjv†`†ki BwZnvm 1704-1971*, 3 LÛ, GwkqvwUK †mvmvBwU Ae evsjv†`k, XvKv 1992|
4. W. nvi`b-Ai-iwk`, *evsjv†`k: ivRbxwZ, miKvi I kvmbZvwš¿K Dbæqb 1757-2000*, wbD GR cvewj†KkÝ, XvKv 2001|
5. W. nvi`b-Ai-iwk`, *evOvwji ivó²wPš—v I ^vaxb evsjv†`†ki Af~`q*, AvMvgx cÖKvkbx, XvKv 2003|
6. W. nvi`b-Ai-iwk`, *e½eÜzi Amgvß AvZ†Rxebx cybcv©V*, w` BDwbfvwm©wU †cÖm wjwg†UW, XvKv 2013|
7. W. AvZdzj nvB wkejx I W.†gvt gvneyei ingvb, *evsjv†`†ki mvsweavwbK BwZnvm 1773-1972*, m~eY© cÖKvkb, XvKv 2013|
8. gybZvwmi gvgyb I RqšÍ Kzgvi ivq, *evsjv†`†ki wmwfj mgvR cÖwZôvi msMÖvg*, Aemi, XvKv 2006|
9. AvwZDi ingvb, *Amn†hvM Av†`vj†bi w`b,wj: gyw³hy†xi cÖ`wZ ce©*, mvwnZ` cÖKvk, XvKv 1998|
10. W. †gvt gvneyei ingvb, *evsjv†`†ki BwZnvm, 1905-47*, Zvg²wjwc, XvKv 2011|
11. W. †gvt gvneyei ingvb, *evsjv†`†ki BwZnvm, 1947-1971*, mgq cÖKvkb, XvKv 2012|
12. %omq` Av†bvqvi †nv†mb, *evsjv†`†ki ^vaxbZv hy†x civkw³i f~wgKv*, Wvbw cÖKvkbx, XvKv 1982|
13. Aveyj gvj Ave`yj gywnZ, *evsjv†`k: RvwZiv†ó²i D™†e*, mvwnZ` cÖKvk, XvKv 2000|
14. †kL gywReyi ingvb, *Amgvß AvZ†Rxebx*, w` BDwbfvwm©wU †cÖm wjwg†UW, XvKv 2012|
15. wmivR D`&`xb Avn†g`, *GKvĚ†ii gyw³hyx: ^vaxb evsjv†`†ki Af~`q*, BmjvwgK dvD†Úkb, XvKv 2011|

16. RqšÍ Kzgví ivq, *evsjvž`žki ivR%obwZK BwZnvm*, myeY© cÖKvkb, XvKv 2010|
17. Harun-or-Roshid, *The Foreshadowing of Bangladesh: Bengal Muslim League and Muslim Politics, 1906-1947*, The University Press Limited, Dhaka 2012.
18. Rounaq Jahan, *Pakistan: Failure in National Integration*, The University Press Limited, Dhaka 1977.
19. Talukder Maniruzzaman, *Radical Politics and the Emergence of Bangladesh*, Mowla, Brothers, Dhaka 2003.
20. žgmevn Kvgvj | CkvbX PpeZx©, *bvžPvžji K...IK wež`avn*, mgKvjxb *ivRbxwZ | Bju wgl, DËiY*, XvKv 2008|
21. žgmevn Kvgvj, *Avmv` | EbmËžji MYAfy`ìvb*, weeZ©b, XvKv 1986|