

**MA Economics Entrance Examination**  
**ASHOKA UNIVERSITY**

**Syllabus**

## **1 Statistics**

Topics: Measures of Central Tendency and Dispersion; Elementary Probability Theory; Random variables; Special Discrete Distributions like Binomial, Hypergeometric and Negative Binomial; Special Continuous Distributions like Uniform and Normal; Joint Discrete Distributions; Sampling Distributions, Interval, Point Estimation and Hypothesis Testing for Population Means, Proportions and Variances.

Recommended Textbooks: (i) “Probability and Statistics for Engineering and the Sciences” by J.L. Devore. Seventh Edition. (ii) “John E. Freund’s Mathematical Statistics with Applications” by Miller and Miller. Eighth Edition.

## **2 Analytical Reasoning**

This section will test candidates on their ability to study and process a given set of information logically to arrive at a decision, or make an inference, or find patterns. Answering these questions will not require prior training in any of the established disciplines.

## 3 Economics

### 3.1 Microeconomics

Topics: Choice, Preferences and Utility; Consumer Theory; Producer Theory; Perfect Competition; Monopoly and Price Discrimination; Edgeworth Exchange Economies; Welfare Economics; Externalities.

Recommended Textbook: “Intermediate Micro Economics” by Hal Varian. Eighth Edition

### 3.2 Macroeconomics

Topics: National income accounting; Keynesian Model of income determination and the multiplier; IS-LM Model; Models of aggregate demand and aggregate supply; Rational expectations; Solow model of growth; Money, banking and inflation.

Recommended Textbook: “Macroeconomics” by Dornbusch, Fisher and Startz. Eleventh Edition.

## 4 Mathematics

Topics: Elementary Set Theory and Logic; Functions; Limits; Continuity; Differentiation; Integration; Single and Multi-variable Calculus, Linear Algebra, Constrained optimization.

Recommended Textbook: “Essential Mathematics for Economic Analysis” by Sydsaeter, Hammond and Strom. Fourth Edition