

# Principles of Microeconomics I

*Generic Elective Course* offered by  
*Department of Economics* to other  
Programs

# Learning Objectives of the Course

- This course discusses the basic principles in microeconomics and their applications.
- It focuses on the consumer's problem, demand estimation, production function, cost functions and market analysis.
- It illustrates how the concepts of microeconomics can be applied to analyze real-life economic situations.

# Learning Outcomes of the Course

- The students will learn some basic principles of microeconomics of consumer and producers, and interactions of supply and demand, characteristics of perfect competition, efficiency and welfare outcomes.

# Course Content

- **Unit I- Introduction:** Problem of scarcity and choice: scarcity, choice and opportunity cost; production possibility frontier; economic systems. Demand and supply: law of demand, determinants of demand, shifts of demand versus movements along a demand curve, market demand, law of supply, determinants of supply, shifts of supply versus movements along a supply curve, market supply, market equilibrium. Applications of demand and supply: price rationing, price floors, consumer surplus, producer surplus. Elasticity: price elasticity of demand, calculating elasticity, determinants of price elasticity, other elasticities.
- **Unit II- Consumer Theory:** Budget constraint, concept of utility, diminishing marginal utility, Diamond-water paradox, income and substitution effects; consumer choice: indifference curves, derivation of demand curve from indifference curve and budget constraint

# Course Content

- **Unit III- Production & Costs:** Production: behaviour of profit maximising firms, production process, production functions, law of variable proportions, choice of technology, isoquant and isocost lines, cost minimizing equilibrium condition Costs: costs in the short run, costs in the long run, revenue and profit maximization, minimizing losses, short run industry supply curve, economies and dis- economies of scale, long run adjustments.
- **Unit IV- Perfect Competition:** Assumptions: theory of a firm under perfect competition, demand and revenue; equilibrium of the firm in the short run and long run; Long run industry supply curve: increasing, decreasing and constant cost industries. Welfare: allocative efficiency under perfect competition.

# Recommended Readings

- **Mankiw, N. G. (2018). Principles of Microeconomics 8th ed.**
- **Frank, R.H., & Cartwright, E. (2010). Microeconomics and behavior. New York: McGraw-Hill.**
- **Bernheim, B., Whinston, M. (2009). Microeconomics. Tata McGraw-Hill.**

# **Computer Applications in Business**

## **BCH: GE- 1.5**

**Utility:** In today's era, employers seek those employees who have computer literacy. The knowledge gained in this course would lead to proficiency and employability.

**This paper is divided into two segments:**

- 1. Theoretical Segment: Basic knowledge of Computer, Computer Network and Internet Terminologies.**
- 2. Practical Segment: Word, PowerPoint and Excel.**
  - ❖ Word Processing: Report writing, Certificate, Magazine page, Tables.**
    - Word processing concepts, Use of Templates and styles, Working with word document: Editing text, Find and replace text, Formatting, spell check, Autocorrect, Auto-text; Bullets and numbering, Tabs, Paragraph Formatting, Indent, Page Formatting, Header and footer, page break, table of contents, Tables: Inserting, filling and formatting a table; Inserting Pictures and Video; Mail Merge (including linking with spreadsheet files as data source); Printing documents; Citations, references and Footnotes.

# Computer Applications in Business

## BCH: GE- 1.5

### ❖ **Preparing Presentations:**

- Basics of presentations: Slides, Fonts, Drawing, Editing; Inserting: Tables, Images, texts, Symbols, hyperlinking, Media; Design; Transition; Animation; and Slideshow, exporting presentations as pdf handouts and videos.

### ❖ **Spreadsheets/Excel:** : Loan repayment scheduling; forecasting: stock prices, costs & revenues; Payroll statements; handling annuities and unequal cash flows; Frequency distribution and its statistical parameters and break-even analysis.

- Working with Data: Sort and filter; Consolidate; Tables; Pivot tables; What-if-analysis: Goal seek, Data tables and Scenario manager.
- Spreadsheet functions: Mathematical, Statistical, Financial, Logical, Date and Time, Lookup and reference, Text functions and Error functions.
- Spreadsheet concepts, Managing worksheets; Formatting, conditional formatting, Entering data, Editing, and Printing and Protecting worksheets; Handling operators in formula, Project involving multiple spreadsheets, Organizing Charts and graphs; Flash-fill; Working with Multiple worksheets; controlling worksheet views, naming cells and cell ranges.



# Computer Applications in Business

## BCH: GE- 1.5

### ❖ Theoretical Segment

- **Computing:** Concept of computing, Data and information; Computing Interfaces: Graphical User Interface (GUI), Command Line Interface (CLI), Touch Interface, Natural Language Interface (NLI); data processing; applications of computers in business.
- **Computer Networks:** Meaning of computer network; objectives/ needs for networking; Applications of networking; Basic Network Terminology; Types of Networks; Network Topologies; Distributed Computing: Client Server Computing, Peer- to- peer Computing; Wireless Networking; Securing Networks: firewall.
- **Basic Internet Terminology:** I.P. Address, Modem, Bandwidth, Routers, Gateways, Internet Service Provider (ISP), World Wide Web (www), Browsers, Search Engines, Proxy Server, Intranet and Extranet; Basic Internet Services; Internet Protocols: TCP/IP, FTP, HTTP(s), Uses of Internet to Society; Cyber Security: Cryptography, digital signature.

**After studying this paper, students will gain the ability to handle and analyse data for decision making and present it to the person concerned in the form of presentations and/or reports in the fast-moving business world.**



SRI GURU GOBIND SINGH COLLEGE OF COMMERCE  
UNIVERSITY OF DELHI



Generic Elective

# **FUNDAMENTALS OF CALCULUS**

Offered by

**Department of Mathematics**

# CALCULUS and ITS APPLICATIONS

Calculus is referred as Mathematics of change and is concerned with describing the precise way in which changes in one variable relate to the changes in another. Through this course, students can understand the quantitative change in the behavior of the variables and apply them on the problems related to the environment.

Applications:

1. Calculus in economics- Economists use calculus to determine the right time to buy or sell something.
2. Calculus used in other fields including public policy, applied physics, computer science, graphic arts and more.
3. Constructing burj khalifa- An integral formula was used to calculate the energy needed to raise all the 180 floors upto a height which is 828.8 m
4. Calculus in astronomy- Used to calculate the orbits of the planets around stars and the variable speed of moving objects in space.

# SYLLABUS

**Unit I:** Continuity and Differentiability of functions

**Unit II:** Mean Value Theorems and its applications

**Unit III:** Tracing of curves

The collage features various mathematical elements:

- Formulas:  $\frac{d}{dx} \left[ \frac{f(x)}{g(x)} \right] = \frac{g(x)f'(x) - f(x)g'(x)}{g(x)^2}$ ,  $F = mg = ma = m \frac{d^2h}{dt^2}$ ,  $m \frac{d^2x}{dt^2} = -kx$ ,  $\frac{AA}{dt} = \frac{AB}{dt} = \frac{AC}{dt} = \frac{AD}{dt} = (c)AB - (c)CD$ ,  $\frac{du}{dx} = \frac{du}{dy} = \frac{dy}{dx}$ ,  $y = mx + b$ ,  $f(x) = x^2$ ,  $\int \sin x dx = -\cos x + c$ ,  $\int_a^b f'(x) dx = f(b) - f(a)$ ,  $m \frac{d^2x}{dt^2} = -kx$ ,  $\frac{d^2f(x)}{dz}$ ,  $(\ln x)' = \frac{1}{x}$ ,  $\int \frac{1}{x} dx = \ln|x| + c$ ,  $x^2 - 3x - 4 = 0$ ,  $4x^2 - 3x - 1 = 0$ , and  $\int f(x) dx$ .
- Diagrams: A graph of a curve with a tangent line, a graph of a function  $f(x)$  with a shaded area under the curve, a graph of a parabola, and a graph of a sine wave.
- Icons: A calculator, a pen, a ruler, a protractor, and a pencil.
- Text: "Gottfried Wilhelm Leibniz" and "Maria Gudrina Agnesi".

**Calculus**

# Indian English Literatures

## Course Objectives:

- To introduce literary texts from a range of regional, cultural, social, and political locations within India
- To inculcate an in-depth understanding of some of the major issues shaping this literary production

## **Course Outcomes:**

- This course will help students to comprehend regional differences in the issues discussed and in socio-cultural contexts.
- Students will be enabled to analyze the use of the English language by non-native speakers and writers.

## **Course Content:**

### **UNIT I**

1. Vikram Seth: *A Suitable Boy*\

### **UNIT II**

2. Shashi Deshpande: 'The Intrusion'
3. Salman Rushdie: 'The Courter'

4. Rohinton Mistry: ‘Swimming Lessons’

5. Vikram Chandra: ‘Dharma’

### **UNIT III**

6. Kamala Das: (i) ‘An Introduction’

(ii) ‘My Grandmother’s House’

7. Nissim Ezekiel: (i) ‘Night of the Scorpion’

(ii) ‘Goodbye Party for Miss Pushpa TS’

8. Arun Kolatkar: (i) ‘The Bus’

9. Mamang Dai, ‘The Sorrow of Women’



# Generic Paper– Politics of Globalisation – For B.Com(H), Eco(H), Punjabi (H), BBE, BMS





# Objectives of the Paper

The paper will enable students from diverse backgrounds

- Understand the nature, significance and process of globalization
- Develop a critical insight to the various actors and dimensions of globalisation.
- Acquire knowledge about the International institutions – World Trade Organisation, World Bank, IMF as Drivers of globalisation.
- Equip students with a comprehensive knowledge of the impact of globalization on developing countries in the context of contemporary international issues-poverty, environmental changes, global epidemics and human migration
- Compare the different perspectives to globalization and develop insight into the alternative understanding of globalization and various critical aspects related to it



# About the Course Content : Highlights

Conceptualizing  
Globalization

Globalization : A  
Eurocentric Project?

The course content relates students to the present day Global Political and Economic Environment and its associated challenges

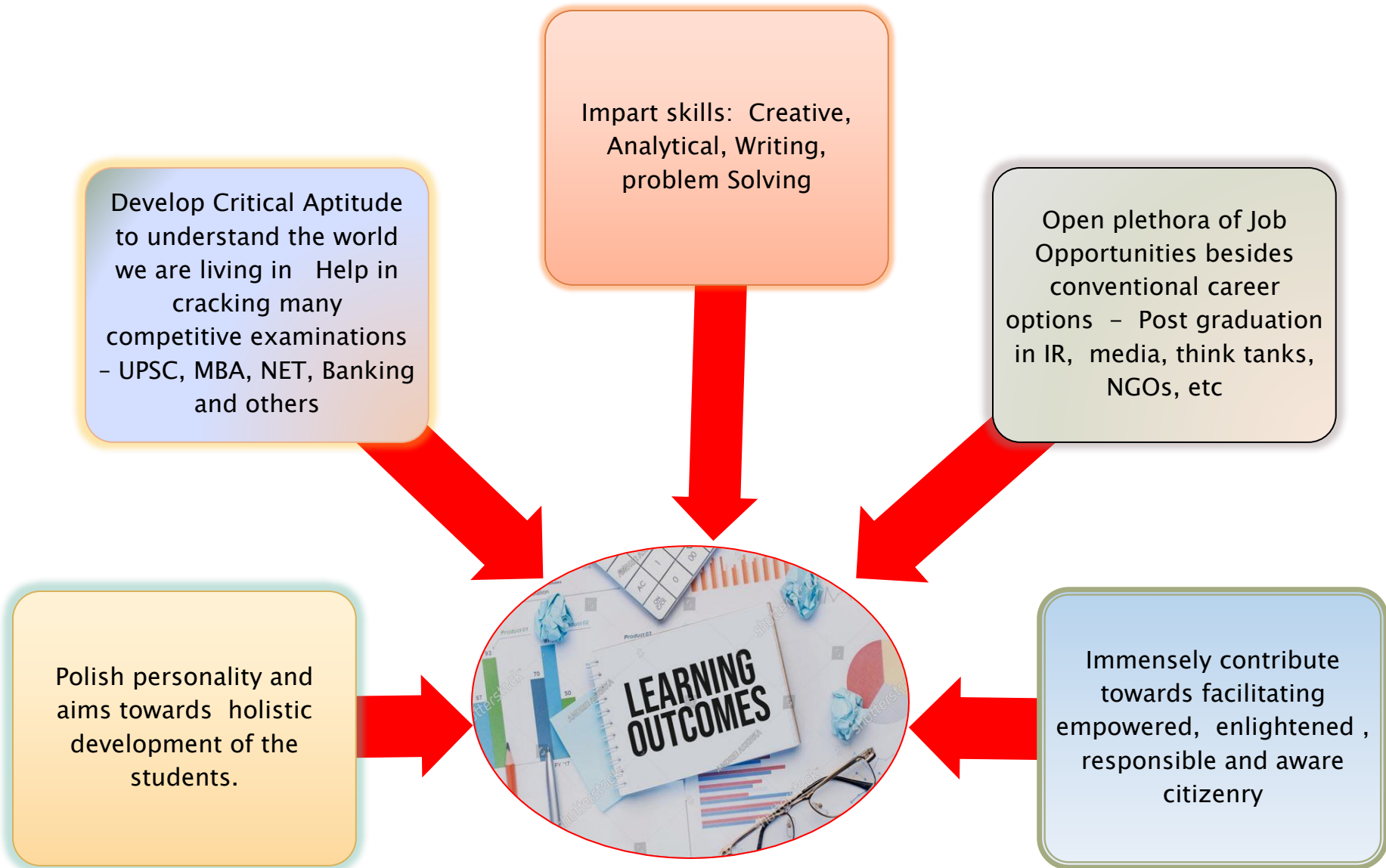
Sovereign states in a  
globalised world

IMF, World Bank, WTO,  
G20, WHO and others

Responses and  
Resistances to  
Globalization

Non State Actors:  
Civil society and  
social movements





## GENERAL ELECTIVE COURSE- 2

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### **PUNJAB DI LOKDHARA**

## LEARNING OBJECTIVES

- To learn about the concepts, forms, histories, terms, etymology, social importance and methods that help in understanding the documented as well as lived lores of people.
- To learn about generic osmosis between folklore and other streams of expression, like mythology, oral texts/ traditions, belief systems, rituals, fairs, festivals, pilgrimages, epics, and so on.
- To sensitize students about the rich oeuvre of folklore that surrounds them and also inspired many literary genres.
- To understand the concepts of Folklore and Culture, their constituents and also learn the relation of folklore to our surroundings, modernization and its various aspects.

## LEARNING OUTCOMES

- Students will demonstrate the knowledge of various Folk-traditions of Punjab.
- Students will be able to examine the diversity of the folk literature and customs of Punjab.
- Students will be able to understand the current problems occurring in Punjabi society and can try to find the appropriate way to handle them.
- Students will learn about various genres of Punjabi Folk-literature.
- Students will learn the history of Punjabi folk literature and its link with its geography and language.



# **GENERIC ELECTIVE (GE-4)**

# **PUNJABI LOK SAHIT**

B. Com. (Prog.)  
Sem - I

# LEARNING OBJECTIVES

To promote rich Punjabi culture, folklore, language and literature to inculcate high social values.

To discuss the beginning and growth of folklore explaining the diversity of perceptions about folklore at different times and in different situations.

To develop keen interest in folk literature that forms a vast corpus of legends, stories, fables, fairy-tales, religious tales and mythological tales present in oral as well as written practice of a culture, language and people.


To discuss the limitless literary pursuits that keep evolving, progressing, adapting and reorienting along with the dynamism of time and need of the people who create and possess folkloric tradition after generation.

To develop an analytical sense about Punjabi folk literature that it has been progressive, revolutionary and rich in terms of themes, narratives and issues.




# LEARNING OUTCOMES:


Students will get an idea of Punjabi folk literature through various folkloric texts and of significant texts.



Students will be able to identify different types of folk genres and their importance in Punjabi culture.



Students can easily identify the common motifs and morals for life in all types of folk literature.



Students will also be trained in the collection of folklore material in the field using the latest audio visual gadgets.



Students will be able to appreciate the thematic and narrative concerns in Punjabi folk literature.



**Thank you**