Teaching Plan For The Academic Year : 2023-2024

Course Name	Paper Name	Semester	Section	Month(s)	Topics/ Units	Total Course (%)	Course Completed (%)	ICT Tools Used	Any Remarks	Saved On
B. A. (Hons.) Business Economics III	INCOME TAX LAW AND PRACTICE	Odd Semester	None	August	Unit 1 and Unit 2	10	10		----	6th January, 2024
B. A. (Hons.) Business Economics III	INCOME TAX LAW AND PRACTICE	Odd Semester	None	September	Unit 2 and Unit 3	25	25		----	6th January, 2024
B. A. (Hons.) Business Economics III	INCOME TAX LAW AND PRACTICE	Odd Semester	None	October	Unit 3	50	50		----	6th January, 2024
B. A. (Hons.) Business Economics III	INCOME TAX LAW AND PRACTICE	Odd Semester	None	November	Unit 4	15	85		----	6th January, 2024
B. A. (Hons.) Business Economics III	INCOME TAX LAW AND PRACTICE	Odd Semester	None	December	Unit 4	100	100		----	6th January, 2024
B. A. (Hons.) Business Economics V	CONSUMER BEHAVIOUR AND ADVERTISING	Odd Semester	None	August	Unit 1	13	13		----	6th January, 2024
B. A. (Hons.) Business Economics V	CONSUMER BEHAVIOUR AND ADVERTISING	Odd Semester	None	September	Unit 2 & Unit 3	37	37		----	6th January, 2024
B. A. (Hons.) Business Economics V	CONSUMER BEHAVIOUR AND ADVERTISING	Odd Semester	None	October	Unit 3 & Unit 4	65	65		----	6th January, 2024
B. A. (Hons.) Business Economics V	CONSUMER BEHAVIOUR AND ADVERTISING	Odd Semester	None	November	Unit 5	88	88		----	6th January, 2024
B. A. (Hons.) Business Economics V	CONSUMER BEHAVIOUR AND ADVERTISING	Odd Semester	None	December	Unit 6	100	100		----	6th January, 2024

Teaching Plan For The Academic Year : 2023-2024

Course Name	Paper Name	Semester	Section	Month(s)	Topics/ Units	Total Course (%)	Course Completed (%)	ICT Tools Used	Any Remarks	Save On
B. A. (Hons.) Business Economics V	ORGANIZATION BEHAVIOR	Odd Semester	None	August	Unit-1	10	10		----	7th Janua 2024
B. A. (Hons.) Business Economics V	ORGANIZATION BEHAVIOR	Odd Semester	None	September	Unit-2	25	25		----	7th Janua 2024
B. A. (Hons.) Business Economics V	ORGANIZATION BEHAVIOR	Odd Semester	None	October	Unit-3	35	35		----	7th Janua 2024
B. A. (Hons.) Business Economics V	ORGANIZATION BEHAVIOR	Odd Semester	None	November	Unit-4	20	20		----	9th Janua 2024
B. A. (Hons.) Business Economics V	ORGANIZATION BEHAVIOR	Odd Semester	None	December	Unit-5	10	10		----	9th Janua 2024

Reetika Jain

Teaching Plan For The Academic Year : 2023-2024

Course Name	Paper Name	Semester	Section	Month(s)	Topics/ Units	Total Course (%)	Course Completed (%)	ICT Tools Used	Any Remarks	S
B. A. (Hons.) Business Economics I	ACCOUNTING FOR MANAGERS - NEP	Odd Semester	None	August	Unit 1 Financial Accounting	15	15	----		1 S 2
B. A. (Hons.) Business Economics I	ACCOUNTING FOR MANAGERS - NEP	Odd Semester	None	September	Unit 1 and Unit 2: Analysis of Financial Statements	25	25	----		1 S 2
B. A. (Hons.) Business Economics I	ACCOUNTING FOR MANAGERS - NEP	Odd Semester	None	October	Unit 2 and Unit 3: Cost and Management Accounting Interna Assessment Assignment and Test	30	30	----		1 S 2
B. A. (Hons.) Business Economics I	ACCOUNTING FOR MANAGERS - NEP	Odd Semester	None	November	Unit 4: Planning and Control	30	30	----		1 S 2
B. A. (Hons.) Business Economics III	CORPORATE FINANCE	Odd Semester	None	August	Unit 1: Introduction	10	10	----		2 S 2
B. A. (Hons.) Business Economics III	CORPORATE FINANCE	Odd Semester	None	September	Unit 2: Investment Decision	35	35	----		2 S 2
B. A. (Hons.) Business Economics III	CORPORATE FINANCE	Odd Semester	None	October	Unit 3 Cost of Capital and Unit 4: financing Decision and Internal Assessment	30	30	----		2 S 2
B. A. (Hons.) Business Economics III	CORPORATE FINANCE	Odd Semester	None	November	Unit 4: Financing Decision	25	25	----		2 S 2
B. A. (Hons.) Business Economics V	QUANTITATIVE TECHNIQUES FOR MANAGEMENT (BUSINESS ECONOMICS)	Odd Semester	None	August	Unit 1: Introduction to Operations Research and Linear Programming	10	10	----		2 S 2
B. A. (Hons.) Business	QUANTITATIVE TECHNIQUES FOR	Odd Semester	None	September	Unit 1: Introduction to Operations	30	30	----		2 S 2

Course Name	Paper Name	Semester	Section	Month(s)	Topics/ Units	Total Course (%)	Course Completed (%)	ICT Tools Used	Any Remarks	S
Economics V	MANAGEMENT (BUSINESS ECONOMICS)				Research and Linear Programming					
B. A. (Hons.) Business Economics V	QUANTITATIVE TECHNIQUES FOR MANAGEMENT (BUSINESS ECONOMICS)	Odd Semester	None	October	Unit 2: Inventory Control Models and Unit 3:Decision Theory	30	30		----	2 S 2
B. A. (Hons.) Business Economics V	QUANTITATIVE TECHNIQUES FOR MANAGEMENT (BUSINESS ECONOMICS)	Odd Semester	None	November	Unit 4: Network Analysis and Unit 5: Waiting Line and Queuing Theory Models	30	30		----	2 S 2

शिवाजी महाविद्यालय
SHIVAJI COLLEGE
UNIVERSITY OF DELHI
ACCREDITED BY NAAC WITH 'A' GRADE
DBT STAR COLLEGE SCHEME

Academic Plan

Course Name: B.A. (H) Business Economics						
Semester	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Credit (C)
1	2922101103	DSC - 3: Mathematics for Business Economics - I	3	0	1	4
Teacher/Instructor(s)		Akhum David Longkumer				
Session		2023-24				

Course Objective:

The objective of this course is to provide instruction on basic mathematics that enables the study of economic theory and business applications at the undergraduate level. This shall be required for the teaching of the courses on microeconomic theory, macroeconomic theory, statistics, and econometrics set out in this syllabus. This course introduces mathematical techniques that will be new to most students through examples of their application to economic concepts. The economic and business models are a means for illustrating the method of applying mathematical techniques to economic theory and business applications in general. Mathematics has become the language of modern analytical economics and it quantifies the relationship between economic variables and among economic actors

Course Learning Outcomes:

1. To build the mathematical base necessary for other courses and to understand the basic functional forms used in economic analysis.
2. To develop the mathematical knowledge required in business decision-making and to study the mathematics in which economic theories are expressed.
3. To make and refute arguments by developing mathematical understanding.

Lesson Plan:

Unit	Learning Objective	Lecture No.	Topics to be covered
1.	Introduction	1-9	Algebra concepts, number systems, inequalities,

			mathematical logic, proof techniques; sets and set operations; functions and their properties.
	Practicals	10-14	
2	Univariate Analysis	15-30	Curves and graphs; elementary functions: linear, quadratic, polynomial, power, exponential, logarithmic; sequences and series: convergence, algebraic properties and applications; Continuous functions: characterisations, properties with respect to various operations and applications; Differentiable functions: characterisations, properties with respect to various operations and applications; Second and higher order derivatives: properties and applications, Geometric properties of functions: convex functions, their characterisations and applications; local and global optima: geometric and calculus-based characterisations, and applications.
	Practicals	31-40	
3	Linear Algebra	41-52	Linear Algebra: Vector spaces: algebraic and geometric properties, scalar products, norms, orthogonality; linear transformations: properties, matrix representations and elementary operations; systems of linear equations: properties of their solution sets; determinants: characterization, properties and applications. Eigenvalues and eigenvectors, diagonalization, Spectral Theorem.
	Practicals	53-62	
4	Integration	63-70	Integrals: indefinite and definite, Methods of integration. Economic applications.
*	Lectures (for assessment and doubt-solving)	71-75	• Internal Assessments in Class • Discussion of Solutions/Answer Writing

			• Past Year Paper Discussion and Exam Revision

Evaluation Scheme:

No.	Component	Duration	Marks
1.	Internal Assessment:		Total 100
	Class test	1 hour each (total 3)	20
	Practicals	3 hours	25
	Attendance		5
2.	End Semester Examination	3 hours	50

Readings:

Essential	Sydsaeter, K., Hammond, P. (2002), Mathematics for Economic Analysis. Pearson Education.
Additional	1. Chiang, Alpha C., and Wainwright, K.(2005). Fundamental Methods of Mathematical Economics. Boston, Mass: McGraw-Hill/Irwin,
	2, Hoy, Michael, Livernois John, McKenna Chris, Ray Rees, and Thanasis Stengos. (©2011) Mathematics for Economics. Cambridge, Mass. : MIT Press
	3. Lay, David C., Judi J. McDonald, Steven R. Lay.(2022), Linear Algebra and Its Applications. Pearson

Teaching - Learning Process

- 3 Lectures and 2 practicals each week,
- Assignments, Tests, Presentations, Classroom discussions.
- Spreadsheet Software for logical and other functions.
- Problem solving

Academic Plan

Course Name: B.A. (H) Business Economics						
Semester	Course Code	Course Title	Lecture (L)	Tutorial (T)	Practical (P)	Credit (C)
3	2922102302	DSC 8: Mathematics for Business Economics II	3	1	0	4
Teacher/Instructor(s)	Akhum David Longkumer					
Session	2023-24					

Course Objective:

This course aims to introduce to the student the understanding of:

1. real multivariate functions and their properties
2. the optimisation conditions for real multivariate functions
3. differential equations and their applications
4. difference equations and applications

Course Learning Outcomes:

By studying this course, the students will able to:

1. To be adept in the use of differential and integral calculus to examine the properties of functions used in economics and business
2. To solve numerical problems of multivariable optimization and properties of the solutions.
3. To model business and economic scenarios in mathematical terminology and to appreciate economic models by using formal mathematical methods

Lesson Plan:

Unit	Learning Objective	Lecture No.	Topics to be covered
1.	Multivariable Functions	1-12	Geometric representations: graphs and level curves;

	Tutorials	13-15	differentiability: characterisations, properties with respect to various operations and applications; higher order derivatives: properties and applications; the implicit function theorem and application to comparative statics problems; homogeneous and homothetic functions: characterisations and applications
2	Multivariable Optimization (15 hours)	16-30	Multivariate optimisation: Convex sets; geometric properties of functions: convex functions, their characterisations, properties and applications; further geometric properties of functions: quasiconvex functions, their characterisations, properties and applications; unconstrained optimisation: geometric characterisations, characterisations using calculus and applications. Multivariate Optimization with constraints: Constrained optimisation with equality constraints: geometric characterisations, Lagrange characterisation using calculus and applications; properties of value function: envelope theorem and applications.
	Tutorials	31-34	
3	Economic Dynamics -1	35-43	First order differential equations, phase diagrams and stability.
	Tutorials	44-45	
4	Economic Dynamics -2 (9 hours)	46-54	

	First order difference equations, equilibrium and stability		Integrals: indefinite and definite, Methods of integration. Economic applications.
	Tutorials	55-56	
*	Lectures (for assessment and doubt-solving)	57-61	• Internal Assessments in Class • Assignment • Discussion of Solutions/Answer Writing • Past Year Paper Discussion and Exam Revision

Evaluation Scheme:

No.	Component	Duration	Marks
1.	Internal Assessment:		Total 100
	Class test	1 hour each (total 3)	25
	Assignment		20
	Attendance		5
2.	End Semester Examination	3 hours	50

Readings:

Essential	Sydsaeter, K., Hammond, P. (2002), Mathematics for Economic Analysis. Pearson Education.
Additional	1. Chiang, Alpha C., and Wainwright, K.(2005). Fundamental Methods of Mathematical Economics. Boston, Mass: McGraw-Hill/Irwin,
	2, Hoy, Michael, Livernois John, McKenna Chris, Ray Rees, and Thanasis Stengos. (©2011) Mathematics for Economics. Cambridge, Mass. : MIT Press

Teaching - Learning Process

- 3 Lectures and 1 tutorial each week,
- Assignments, Tests, Presentations, Classroom discussions.