1.1.3

List of Employability/ Entrepreneurship/ Skill Development Courses with Course Contents

Colour Codes		
Name of the Subjects	Yellow	
Employability Contents	Green	
Entrepreneurship Contents	Light Blue	
Skill Development Contents	Pink	

List of Courses Focus on Employability/ Entrepreneurship/ Skill Development

Department : *Economics*

Programme Name : *B.A. Economics*

Academic Year : 2023-24

List of Courses Focus on Employability/ Entrepreneurship/Skill Development

Sr. No.	Course Code	Name of the Course
01.	ENUAMJT1	Mathematics for Economics-I
02.	ENUAMNT1	Mathematics for Economics-II
03.	ENUBMNT1	NSS and Entrepreneurship Development

Scheme and Syllabus

DEPARTMENT OF ECONOMICS
GURU GHASIDAS VISHWAVIDYALAYA BILASPUR (CG)
STRUCTURE OF COURSES

Semester	Courses	Number of courses	Level	Credits	Total Credits
I	Major	Mathematics for Economics- I	2	4	20
	Minor	Mathematics for Economics- I	2	4	
	Multidisciplinary	National Income Accounting	1	3	
	AEC (ESUAAET1)	Language (ENGLISH)	1	2	
	SEC	NSS and Youth Development	1	3	
	VAC*	Integral Humanism	1	2 +2	
II	Major	Mathematics for Economics- II	2	4	20
	Minor	Mathematics for Economics- II	2	4	
	Multidisciplinary	Money and Financial Market	1	3	
	AEC	Language (HINDI)	1	2	
	SEC	NSS and Entrepreneurship Development	1	3	
	VAC*	भारत के नवीन मूल्य	1	2 +2	

Thestudentmustcompletethe4-credit vocationalcourse/InternshipduringsummertermtogetUGCertificateifhe wishes toexit the programafterfirst 2 semesters.

*Two VAC papers from the basket provided by the university. One paper will be offered by the Department in the basket.

Programme Outcomes: The learners will

PO-1	*Knowledge*	*Gain knowledge of Indian economy, development economics, international economics, environmental economics a · microeconomics.*
PO-2	*Problem analysis*	*Identify, structure framework and analyze them to understand economic concepts.*
PO-3	*Tools*	*Use mathematical and statistical tools and develop econometric models to investigate economic problems.*
PO-4	*Society*	*Apply the knowledge to assess various issues viz. policy matters, socio-economic, environmental, macro, financial issues.*
PO-5	*Environment*	*Understand the importance of the environment for sustainable economic development.*
PO-6	*Teamwork*	*Function effectively as an individual and as a member or leader in diverse teams and multidisciplinary settings.*
PO-7	*Communication*	*Communicate effectively by presentations and writing reports.*
PO-8	*Management*	*Manage projects in multidisciplinary environments as member or a team leader.*
PO-9	*Life-long learning*	*Engage in independent lifelong learning in the broadest context of social change.*

Programme Specific Outcomes:

PSO-1	Know different concepts to understand theories.
PSO-2	Develop understanding about economic concepts.
PSO-3	Ability to adapt and comprehend the methodological advancement in economics and contemporary economic analyses with demonstration of leadership qualities for the betterment of organization, environment and society.
PSO-4	The learners will develop values to lead an effective life in future.

04.01.2023

2023

B.A. (Hons.) Economics, Semester-I, Major - 01
Course: Mathematics for Economics-I
Course Code: ENUAMJT1 [major]
Course Credit: (3+1) ENUAMNJT1 [Minor]

MATHEMATICS FOR ECONOMICS–I

Course Objectives

This is the first of a compulsory two-course sequence. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general.

Course Outcomes

- The course hones and upgrades the mathematical skills acquired in school and paves the way for the first semester course Mathematical Methods in Economics I.
- The analytical tools introduced in this course have applications wherever optimization techniques are used in business decision-making. These tools are necessary for anyone seeking employment as an analyst in the corporate world.
- The course additionally makes the student more logical in making or refuting arguments.

. CO1. Knowledge

- Mathematics formulas play a crucial role in calculating and interpreting elasticities in economics. Elasticity measures the responsiveness of one variable to changes in another variable. For example, price elasticity of demand quantifies the percentage change in quantity demanded in response to a change in price. These formulas help us understand how changes in variables, such as prices and incomes, affect market outcomes and consumer behavior.
- Learning the mathematics formulas of economics enhances our ability to think logically, reason analytically, and solve problems. It promotes a systematic and rigorous approach to economic analysis, enabling us to critically evaluate economic theories, interpret data, and make evidence-based decisions.

CO2. Skill

- Studying mathematics formulas in economics enhances your analytical thinking skills. You learn to break down complex problems into smaller, manageable parts and analyze their relationships.

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- Mathematical formulas enable economists to build models and represent real-world economic phenomena. Through this process, you develop skills in abstraction, simplification, and constructing models that capture essential economic relationships.

CO3. Application

- Variable curves, such as demand curves and supply curves, are often represented graphically. Studying these curves helps you develop the skill of interpreting and analyzing graphical representations, enabling you to understand and communicate economic concepts effectively.
- Knowledge of elasticity of demand and variable curves provides a valuable tool for decision-making. By understanding how changes in price or other factors affect demand, you can make more informed decisions regarding pricing strategies, product differentiation, market entry, and other business or policy-related choices.

Course Outline

Unit- 1: Preliminaries
Variables, Constants and Parameters; Equations and Identities;Meaning and Definitions of Set, Basic Set Operations, Laws of Sets

Unit- 2: Relations and Functions
Cartesian Product and Relations, Types of Relations, Definition of Function, Types of Functions: Constant & Polynomial Functions, Logarithmic and Exponential Functions, Rectangular Hyperbola; Sequences and Series: Arithmetic & Geometric Progression

Unit- 3: Differential Calculus-I
The derivative and the slope of a curve: Process of differentiation; First Principle of Differentiation, Derivatives of higher order; Partial Differentiation, Total Derivative; Condition of Maxima and Minima of a function, Applications in Elasticity, Cost and Revenues, Conditions for profit maximization in markets.

Unit- 4: Differential Calculus-II
Integration of function- Simple concepts; Indefinite, definite, and improper integrals; Application in Consumer and Producer Surplus

Readings:
K. Sydsaeter and P. Hammond, *Mathematics for Economic Analysis*, Pearson Educational Asia: Delhi, 2002.
Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.

Unit IV Relevance in Contemporary Times

Climate issues; Harmony: Peace, Justice and Strong institutions; Cooperative federalism and *Panchsheel*. Cultural Diversity & Governance.

Basic Reading

Deendayal Upadhyaya, Integral Humanism: An Analysis of Some Basic Elements, Prabhat Prakashan, New Delhi

B.A. (Hons.) Economics, Semester-II, Major - 02
Course: Mathematics for Economics-II
Course Code: ENUBMJT1 (Major) ENUBMNT1 (Minor) ENUBMNT1 (Minor)
Course Credit: (3+1)

MATHEMATICS FOR ECONOMICS - II

Course Objectives

This course is the second part of a compulsory two-course sequence. This part is to be taught in Semester II following the first part in Semester I. The objective of this sequence is to transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level, specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.

Course Outcomes

1.Knowledge

The course provides the mathematical foundations necessary for further study of a variety of disciplines including postgraduate economics, statistics, computer science, finance and data analytics.

2. Skill

The analytical tools introduced in this course have applications wherever optimization techniques are used in business decision-making for managers and entrepreneurs alike.

3. Application

These tools are necessary for anyone seeking employment as an analyst in the corporate world

Course Outline

Unit- 1: Linear Programming

Meaning and Definition, Importance, Characteristics and Limitations, Graphical solution with bounded and unbounded solutions, Duality.

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Unit- 2: Matrix Algebra-I
Meaning and Definition of Matrix, Types of matrices, Matrix Operation-Addition, Subtraction and Multiplication of Matrices, Properties of Matrices,Transpose of Matrices.

Unit- 3: Matrix Algebra-II
Determinants and their Properties, Singular and Non-SingularMatrix, Inverse of a matrix, Solution of simultaneous equations through Cramer's Rule

Unit- 4: Game Theory
Basic concepts, Saddle point solution,Simple and Mixed strategy, Prisoners' dilemma

Readings:
K. Sydsaeter and P. Hammond, *Mathematics for Economic Analysis*, Pearson Educational Asia: Delhi, 2002.
Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
Hadley, G. (1962), Linear Programming, Addison Wesley Publishing Co., Massachusetts.

Skill Enhancement Course
[ENUBMDT1]

Money and Financial Market

Course Objective

- This course exposes students to the theory and functioning of the monetary and financial sectors of the economy.
- It highlights the organization, structure and role of financial markets and institutions.
- It also discusses interest rates, monetary management and instruments of monetary control.
- Financial and banking sector reforms and monetary policy with special reference to India are also covered.

This course aims at imparting overall knowledge about concepts and functions of money and capital markets, Indian banking system, reforms, central banking and monetary policy.

Course Outcomes

1. **Knowledge**

- Studying the money banking system involves understanding banking regulations and supervision. You gain knowledge about prudential regulations, capital adequacy requirements, and measures aimed at ensuring the stability and integrity of the banking sector.

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Unit:3.Banking System

Indian banking system: Changing role and structure: banking sector reforms.

Unit:4.Central Banking and Monetary Policy

Central Bank: Functions, goals, targets, instruments of monetary control: current monetary policy of India.

Readings

1. F. S. Mishkin and S. G. Eakins, Financial Markets and Institutions, Pearson Education, 6th edition, 2009.
2. F. J. Fabozzi, F. Modigliani, F. J. Jones, M. G. Ferri, Foundations of Financial Markets and Institutions, Pearson Education, 3rd edition, 2009.
3. L. M. Bhole and J. Mahukud, Financial Institutions and Markets, Tata McGraw Hill, 5th edition, 2011.
4. M. Y. Khan, Indian Financial System, Tata McGraw Hill, 7th edition, 2011.
5. Various latest issues of R.B.I. Bulletins, Annual Reports, Reports on Currency and Finance and Reports of the Working Group, IMF Staff Papers.

Skill Enhancement Course

[ENUBSET1]

NSS and Entrepreneurship Development

Course Objectives: Learners should learn about the value system in order to understand social responsibility. To realize the importance of entrepreneurship development for a better society. To learn the concept of gender sensitivity and women empowerment to promote gender equality.

Course Outcomes:

CO1: Knowledge – Learners will have the knowledge about value system and its role in the IndianValue System.
CO2: Skill- They will be able to understand the concept of WomenEmpowerment and various scheme of Self – Employment Schemes forEntrepreneurshipDevelopment
CO3: Application- Application of this course knowledge will redirect the youth in a socially desirable direction.

Course Outline

Unit 1 :Value System

MeaningofValues.TypesofValues. HumanValues&SocialResponsibilities. IndianValueSystem– the ConceptsanditsFeatures. ElevenVows

Unit 2 :EntrepreneurshipDevelopment

EntrepreneurshipDevelopment–itsmeaning, Attributesofl ntrepreneur. WomenI ntrepreneur

Unit 3:GenderSensitivityandWomenEmpowerment

ConceptofGender, causesbehindGenderrelatedproblemsandremedialmeasures.
MeaningofWomanI mpowerment. VariousSchemesforWomanI mpowermentinIndia

Unit 4 :GovernmentandSelf–EmploymentSchemesforEntrepreneurshipDevelopment

SkillIndia, StartupIndia, DigitalIndia, MakeinIndia, NITIAayog

SuggestedReadings

1. NationalServiceSchemeManual(Revised),2006GovernmentofIndia,MinistryofYo uthAffairsandSports, New Delhi.
2. RashtriyaSevaYojanaSankalpana-
Prof.Dr.SankeyChakane,Dr.Pramod Pabrekar,DiamondPublication,Pune.
3. CasematerialasaTraining AidforFieldWorkers,GurmeetHans.
4. SocialServiceopportunitiesinHospitals,KapilK. Krishnan, TISS
5. NewTrendsinNSS,Researchpaperspublishedby UniversityofPune
6. ANOOGUNJResearchJournal,publishedbyNSSUnitC.K.ThakurCollege
7. JointProgrammeofNationalServiceScheme,UniversityofMumbaiandDISHA - DEPSHIKHAProjects,NairHospital,2011-12.
8. NationalServiceSchemeinIndia:ACaseStudyofKarnataka,M.B.Dishad,TrustPublic ations,2001
9. http://www.thebetterindia.com/140/national-service-scheme-nss
10. http://en.wikipedia.org/wiki/national-service-scheme
11. http://nss.nic.in/adminstruct
12. http://socialworkness.org/about.html
13. DandeV.C.-RashtriyaSevaYojanaDrushtikshep-February,2016

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