



Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2009 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

List of Courses Focus on Employability/ Entrepreneurship/ Skill Development

Department: Economics

Programme Name : B.A. Ist & IInd,Vth&VIth & M.A. IIIrd & IVth

Academic Year: 2018-19

List of Courses Focus on Employability/ Entrepreneurship/Skill Development

Sr. No.	Course Code	Name of the Course
01.	SS/EC/C-102	Mathematical Method for Economics -I
02.	SS/EC/C-204	Mathematical Method for Economics -II
03.	511	Computer Fundamentals: Theory & Application- I
04.	611	Computer Fundamentals: Theory & Application- II
05.	1733-305	Econometrics-I
06.	1734-405	Econometrics-II



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Scheme and Syllabus

Core-1 SS/EC/C-101 Introductory Core-1 Tutorial SS/EC/C-T-101 Tutorial-1 based on Core-1 Core-2 Tutorial SS/EC/C-T-102 Tutorial-2 based on Core-2 Core-2 Tutorial SS/EC/C-T-102 Tutorial-2 based on Core-2 Generic Elective (GEI)-1 Generic Elective - Tutorial SS/EC/GE-T-101/PS Tutorial-1 based on Generic Elective - Tutorial SS/EC/GE-T-101/PS Tutorial-1 based on Generic Elective-1 Ability Enhancement Compulsory Course (AECC) SS/EC/ECA-101 ECA Extracurricular activity/Educational Tour/Field visit/ Industrial training/NSS//Yoga/Swachhta/sports/community	5 I 5 I 4
Core -1 Tutorial SS/EC/C-T-101 Tutorial-1 based on Core-1 SS/EC/C-102 Mathematical Methods for Economics-I Core -2 Tutorial SS/EC/C-T-102 Tutorial-2 based on Core-2 Generic Elective SS/EC/GE-101/C From pool of Generic elective courses (Tutorial-1 based on Generic Elective - Tutorial SS/EC/GE-T-101/PS Tutorial-1 based on Generic Elective-1 Ability Enhancement Compulsory Course (AECC) SS/EC/ECA-101 ECA-Extracurricular activity/Educational Tour/ Field visit/ Industrial training/NSS//Yoga/ Swachhta/ sports/ community	1 5 1
Core -2 SS/EC/C-102 Mathematical Methods for Economics-I 5 Core -2 Tutorial SS/EC/C-T-102 Tutorial-2 based on Core-2 1	1 1
Core -2 Core -2 Tutorial SS/EC/C-T-102 Tutorial-2 based on Core-2 Generic Elective SS/EC/GE-101/C From pool of Generic elective courses (Tutorial-1 based on Generic elective rutorial SS/EC/GE-T-101/PS Tutorial-1 based on Generic Elective-1 Ability SS/EC/AE-101/EC Enhancement Compulsory Course (AECC) SS/EC/ECA-101 ECA SS/EC/ECA-101 ECA-Extracurricular activity/Educational Tour/Field visit/ Industrial training/NSS//Yoga/Swachhta/ sports/ community	1 1
Generic Elective (GEI)-1 Generic Elective - Tutorial Ability Enhancement Compulsory Course (AECC) ECA SS/EC/ECA-101 ECA ECA SS/EC/ECA-101 ECA ENvironmental Science 4 ECA-Extracurricular activity/Educational Tour/ Field visit/ Industrial training/NSS//Yoga/ Swachhta/ sports/ community	1
Generic Elective (GEI)-1 Generic Elective - Tutorial Ability Enhancement Compulsory Course (AECC) SS/EC/ECA-101 ECA ECA SS/EC/ECA-101 ECA ENvironmental Science ECA-Extracurricular activity/Educational Tour/ Field visit/ Industrial training/NSS//Yoga/ Swachhta/ sports/ community	1
- Tutorial Elective-1 Ability SS/EC/AE-101/EC Enhancement Compulsory Course (AECC) SS/EC/ECA-101 ECA-Extracurricular activity/Educational Tour/ Field visit/ Industrial training/NSS//Yoga/ Swachhta/ sports/ community	
Enhancement Compulsory Course (AECC) SS/EC/ECA-101 ECA-Extracurricular activity/Educational Tour/ Field visit/ Industrial training/NSS//Yoga/ Swachhta/ sports/ community	4
ECA SS/EC/ECA-101 ECA-Extracurricular activity/Educational Tour/ Field visit/ Industrial training/NSS//Yoga/ Swachhta/ sports/ community	
and all others	(2)
service/ others TOTAL 24	24
SS/EC/C-203 Introductory 5	
Core-3 Macroeconomics	5
Core -3 Tutorial SS/EC/C-T-203 Tutorial-3 based on Core-3	1
SS/EC/C-204 Mathematical Methods for Economics-II	5
Cons. 4 Tutorial SS/FC/C - T-204 Tutorial-4 based on Core-4	1
Generic Elective (GEI-SS/EC/GE-202/PS From pool of Generic elective courses (Italian Mount Gune) 5	5
Generic Elective - SS/EC/GE-T-202/PS Tutorial-2 based on Generic Elective-2	1
Ability Enhancement Compulsory Course (AECC) SS/EC/AE-201/ES English Communication/ MIL (Hindi Communication)	4
ECA-Extracurricular activity/Educational Tour/ Field visit/ Industrial training/NSS/yoga/ Swachhta/ sports/ community service/ others	(2)
Total 24	24
SUMMER Internship: 15 Swayam Swachhta / NSS / Industrial/ others	2 10
days (Optional)	

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SEMESTER I

B.A. (Hons.) Economics, Semester-I, Core-2 Course: Mathematical Methods in Economics-1

Course Code: SS/EC/C-102 Course Credit: (5+1)

MATHEMATICAL METHODS IN ECONOMICS-I

Course Description

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. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.

Course Outline

Variables, constants and parameters; Equations and Identities; the real number system; sets and set operations;

Relations and functions; types of functions: constant & polynomial functions; sequences and series: arithmetic & geometric progression and their use in economics.

The derivative and the slope of a curve; process of differentiation; condition of maxima and minima of a function; Application of differentiation in economics-elasticity of demand, cost and revenues, conditions for profit maximization in simple market problems.

Integration of a function- Simple concepts, Consumer and Producer's surplus.

K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia: Delhi, Latest edition.

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SEMESTER II

B.A. (Hons.) Economics, Semester-II, Core-4 Course: Mathematical Methods in Economics-II Course Code: SS/EC/C-204 Course Credit: (5+1)

MATHEMATICAL METHODS IN ECONOMICS - II

Course Description

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 Outline

Unit: 1

Linear Programming: Graphical solution and its application in economics, Duality

Unit: 2

Matrix: various types, addition and subtraction, multiplication of matrix.

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Determinants, singular matrix, inverse of a matrix, solution of simultaneous equations through crammer's rule

Tinite A

Game theory-simple and mixed strategy, saddle point solution, prisoner's dilemma

Readings:

K. Sydsaeter and P. Hammond, Mathematics for Economic Analysis, Pearson Educational Asia: Delhi, Latest edition.

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SEMESTER- V (Core Papers) Semester-V No of Credits Total Classes Paper Economics of Development 45 IX 45 X International Economics-I Statistical Methods for Economics-1 45 XI 45 Mathematical Methods in Economics-I IIX SEMESTER-V (Optional Papers) (Any Two) Semester-V No of Credits Total Classes Paper Optional Paper I 45 IIIX 45 XIV Optional Paper II Semester-V No of Credits Total Classes Paper Computer Fundamentals: Theory & Application - I 45 Industrial Economics-1 Agricultural Economics-I 4 45 45 History of Economic Thought-1 Paper-IX ECONOMICS OF DEVELOPMENT Unit 1 Economic growth and development — Factors affecting economic growth — Capital, labour and 1 technology; Growth models — Harrod and Domar; Instability of equilibrium —Neo-classical growth model: --, Mrs. Joan Robinson's growth model; Unit 2 Economic Development, Population and Institutions Development and underdevelopment -Perpetuation of underdevelopment; Measuring development and development gap — per capita income, Human development index and other indices of development and quality of life;— Theory of demographic transition; Population, environment; Economic development and institutions;

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SEMESTER-VI (Core Papers)

Paper	Semester-VI	No of Credits	Total Classes
XV	Environmental Economics	3	45
XVI	International Economics-II	3	45
XVII	Statistical Methods for Economics-II	3	45
XVIII	Mathematical Methods in Economics-II	3	45

SEMESTER-VI (Optional Papers) (Any Two)

Paper	Semester-VI	No of Credits	Total Classes
XIX	Optional Paper I	4	45
XX	Optional Paper II	1	10
43-68	Optional raper II	4	45

	Paper	Semester-VI	31 000	
-	- 1		No of Credits	Total Classes
×	-	Computer Fundamentals: Theory & Application - II	4	45
	2	Industrial Economics-II		
	2		4	45
	2	Agricultural Economics-II	4	10
	4	History of Economic Thought-II		43
		Thosely of Economic Thought-II	4	45

Paper-XV

ENVIRONMENTAL ECONOMICS

Unit I

Nature of environmental economics; basic concepts-public good vs private goods, Externalities Positive & Negative

Unit II

Pareto optimality and market failure in the presence of externalities; property rights and thecoase theorem.

Unit III

Measurement of Environmental Values; Valuation methods — Market based methods; Surrogate market methods and Non-market based methods.

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COMPUTER FUNDAMENTALS: THEORY & APPLICATION - I

Unit -1: Basics of Computers-Computer fundamentals; Organization and components of computer; Capabilities and Limitation, Importance of Computer Literacy, Various Generations of Computer system, classifications of Computer.

Unit 2: Use of Computer for Office Automation Text editors and word processor software packages, (Conceptual); Operative familiarization with MS-word.

Unit-3: Computer Application -Use of computer in book publication, Desktop publication, Application of computer for data analysis, Application in the field of Education, Medical, Industrial, Bank and Design and Research work, database Management & project Management, Real time or online Application, point of sale terminals, Financial Transition Terminals, Some other application of Computers, Computer with visions problems.

Unit-4: Use of Power Point - Power point Terminology, Views, Cresting Presentation using wizard and design templates, masters adding slide, Editing and moving text, spell checking, Finding and replacing text, formatting text, aligning text. Insert Picture in Slide, Present Animation.

Unit-5: Applications- Service Providers, E-Mail Tips, Text and mail communication using computers; E-mail; Choice mail; Document transfer anddelivery; Internet; World Wide Web (WWW)

BASIC READING LIST

- DD Kerns (1993), Essentials of Microsoft windows. Word and Excell, Prentice Hall of India, NewDelhi.
- □□ Rajaraman, V. (1996), Fundamentals of Computers, Prentice Hall (Ind.) New Delhi.
- DD Schied, F. (1983), Theory and Problems of Computers and Programming, Schaum's Outline Seri es, McGraw Hill, New Delhi.

AD DITIONAL READING LIST

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DD Intrilligator, M.D. (1978), Econometric Models, Techniques & Applications, Prentice Hall, Englewood Cliffs, N.J.



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Paper-XIX and Paper-XX

COMPUTER FUNDAMENTALS: THEORY & APPLICATION - II

Unit-1 System Basic Elements of Computer System - Central Processing Unit (CPU), Memory; Disk drives; Input and output devices; Keyboard; Mouse and VDU; Computer, peripherals like printer, scanner, digitizer, etc.; Computer software — Operating system, application,

Unit -2 Operating System: Introduction of Operating system, History of Operating System -First, Second, Third and Fourth Generation, Operating System Concepts - Memory Management, File Management, Process Management, Types of Operating system, Functions of Ms Dos, Dos commands Batch File, Feature of DOS. Input -Output Devices, Data Transfer Schemes.

Unit-3 Excel- MS-excel; Basics of Database; Table: Records and fields; Data entry and query processing; Operative principles of Data Analysis and Trend ForecastingBasics of statistical functions and analysis - Mean, median, mode, standard deviation; Distribution, Excel feature, spreadsheet, part of a worksheet, creating and editing worksheets, Entering and formatting numbers, dates formulas, referencing cells, Order of evaluation in formula, coping entries, auto fill, protecting and Unprotecting documents and cells, Moving, copying cell, sorting cell data,

Unit-4 Internet Application- Brief Overview of concept of Network. Introduction about internet. Search Engine Application, Electronic stock market and exchanges.

Unit- 5 Electronic Commerce-The Scope of Electronic Commerce, Definition of Electronic Commerce, Electronic E-commerce and the Trade Cycle, Electronic Markets, Electronic Data Interchange, Internet Commerce, E-Commerce in Perspective. E-Commerce Implementation, E-Commerce Evaluation. Characteristics of B2B Ec, Models of B2C Ec, Procurement Management Using the Buyer's Internal Marketplace, Just in Time Delivery, Other B2B Models.

Recommended books

Computers and information Technology, puri and puri

Computers Today Sanders

Fundamentals of Computer, Diwan and Dumblekar

Fundamentals of Computers, P. K. Sinha

Fundamentals of Computers, Ashok Arora

Systems Analysis and Design, Awad

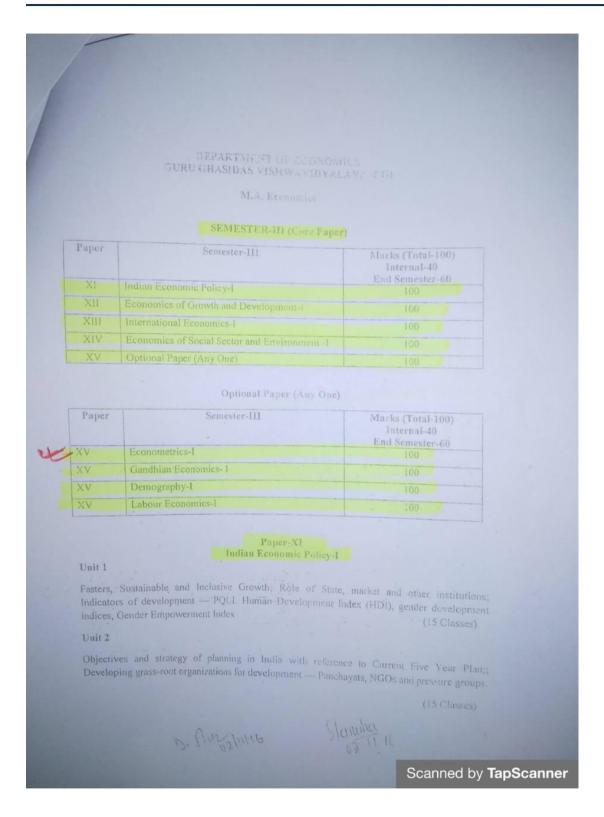
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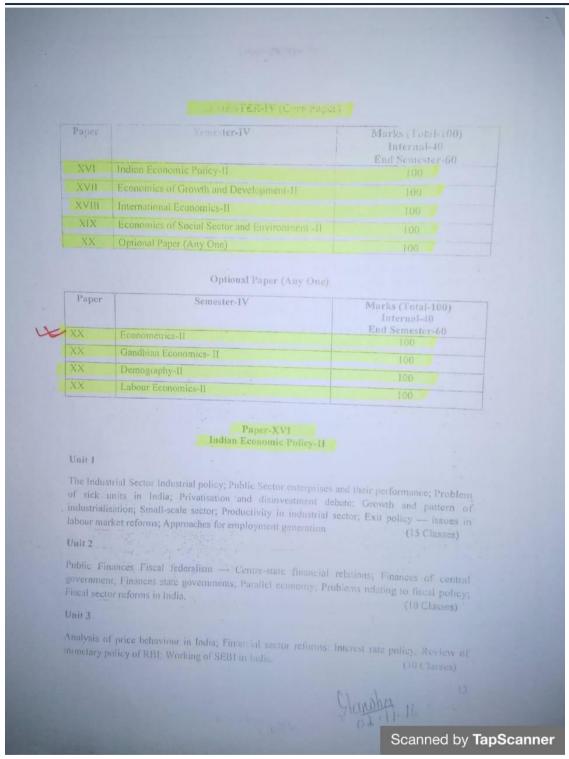
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Paper-XV Optional Paper (Any One)

Econometrics-

- Meaning and Methodology of Econometrics-Nature and Scope Econometries. The Nature of Regression Analysis and Basics of Two-Variable Regression Analysis. Estimation and Hypothesis Testing. (15 Classes)
- Multiple Regression Model, Estimation and Inference of Non-Linear regression Model. (10 Classes)
- Nature, Consequences, Detection and Remedial Measures of Multi Collinearity,
 Heteroscedasticity and Autocorrelation.
 (15 Classes)
- Regression on Dummy Variable, Dynamic Econometrics Models: Autoregressive and Distributed Lag Models-Koyek approach. (10 Classes
- Identification and Estimation Methods (Indirect Least Square and Two stage least square).
 (10 Classes)

BASIC READING LIST

- I. Gujarati, D.N. (1995), Basic Econometries (2nd Edition), McGraw Hill, New Delhi
- 2.Dongherty, C. (1992), Introduction to Econometrics, Oxford University Press, New York.
- Goldberger, A.S. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass.
- 4. Hill R. C., E.G. William and G.G. Judge (1997), Undergraduate Econometrics, Wiley, New York.
- 5. Kennedy, P. (1998). A Guide to Econometrics (4th Edition), MIT Press, New York.
- 6. Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed.), The Macmillan Press Ltd., London.
- 7. Krishna, K.L. (Ed.) (1997), Econometric Applications in India, Oxford University Press, New Delhi.
- 8. Maddala, G.S. (Ed.) (1993), Econometrics Methods and Application (2 Vols.), Aldershot

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2. Matrix Approach to Linear Regression Model. Assumptions, OLS Estimation and their properties. Interpretation of Results. 3. Distributed Lag Model, Rationalization of Koyek Model. The Adaptive Expectation Model, Partial Adjustment Model. The Almon Approach to Distributed Lag Model. (15 Classes) 4. Test of equality between coefficient's (Chow Test) Application of LRM for estimation of Growth rate, demand function, production function. 5. Mixed Estimation Methods, Restricted Least Squares (RLS), Durbin's Generalized Least squares and Method of Principal Components. BASIC READING LIST 1. Gujarati, D.N. (1995), Basic Econometrics (2nd Edition), McGraw Hill, New Delhi. 2. Dongherty, C. (1992), Introduction to Econometrics, Oxford University Press, New York, 3. Goldberger, A.S. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass. 4. Hill R. C., E.G. William and G.G. Judge (1997), Undergraduate Econometrics, Wiley, New 5. Kennedy, P. (1998). A Guide to Econometrics (4th Edition), MIT Press, New York, 6. Koutsoyiannis, A. (1977), Theory of Econometrics (2nd ed.), The Macmillan Press Ltd., 7. Krishna, K.L. (Ed.) (1997), Econometric Applications in India, Oxford University Press, New 8. Maddala, G.S. (Ed.) (1993), Econometrics Methods and Application (2 Vols.), Aldershot