Semester	Course Code	Course Category	Hours / Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
III	23UECVAC1	Value Added Course	30	-	-	100	100

Course Title	Elements of Statistical Software

SYLLABUS		
Unit	Contents	Hours
I	**MS OFFICE EXCEL** Features and uses of Excel - Purpose of tool bar - Rearranging worksheets - Formatting work sheets - Working with Statistical Functions.	6
II	**SPSS** General Features and Uses of SPSS - Data Base Creation - Defining variables - Calculation of descriptive statistics, correlation and regression.	6
III	**R** Evolution of R - Features of R - Advantages and Drawbacks – R Basic Syntax, Data Types, Functions – R Statistics Examples.	6
IV	**EViews** Fundamentals of EViews – Work file Basics – Basic Data Handling – Introductory Econometrics modeling.	6
V	**SAS** Features and uses of SAS – Types – SAS Data set operation – SAS basic statistical procedure.	6

Text Book(s):

1. Wayne Winston , The Microsoft Excel 2019 Data Analysis and Business Modelling , PHI Learning Publishers, 2019.
2. James B. Cunningham & James O. Aldrich, Using SPSS An Interactive Hands - On Approach, SAGE Publications, Inc, New Delhi, South Asia Edition, 2012.
3. Bharti Motwani , Data Analytics with R, Wiley Publishers, 2000.

Reference Book(s):

1. Chukwuemeka Tiptop Okoro, Teach Yourself Econometric Data Analysis with EViews, Atlantic Publishers. 2020.
2. Lora D Delwiche , Susan J Slaughter, The Little SAS Book, SAS Institute, 2019.

Web Resource(s):

1. https://www.w3schools.com/EXCEL/index.php
2. https://www.educba.com/what-is-spss/
3. https://www.tutorialspoint.com/r
4. https://www.eviews.com/Learning/index.html
5. https://www.tutorialspoint.com/market/course/eviews-introductory-econometrics-modeling/index.jsp
6. https://www.tutorialspoint.com/sas/index.htm

Course Outcomes		
Upon successful completion of this course, the student will be able to:		
CO No.	**CO Statement**	**Cognitive Level (K-Level)**
CO1	Understand the basic functions of all menus in MS Excel.	**K1**
CO2	Relate the uses of SPSS with other statistical software	**K2**
CO3	Analyze the data types and functions of R.	**K3**
CO4	Estimate future trends in economic indicators using Econometric modeling in Eviews.	**K4**
CO5	Evaluate the statistical procedure in SAS.	**K5**

Course Coordinator: Dr.J.Khader Sharief & Dr. B.Mohamed Rafeeq

Semester	Course Code	Course Category	Hours/Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
V	23UECVAC2	Value Added Course	30	-	-	100	100

Course Title	Indices of Economic Development

SYLLABUS		
Unit	**Contents**	**Hours**
I	**Basics of Index** Index: Meaning and definition – Characteristics of Index Numbers - Role of Index Number in Economics – importance.	**6**
II	**Types and Base Year Selection** Types of index numbers: Quantity, Price, Value, Special purpose - Base Year – Current year – chain base –Base shifting – criteria for choosing base year	**6**
III	**Index Numbers and Economic Development I** Index of Industrial Production – Index Number of Agricultural Production - wholesale price index – Consumer price index or cost of living index	**6**
IV	**Index Numbers and Economic Development II** PQLI - Human development index – Gender Development Index – employment index – multi dimensional poverty measure (MPM) – Poverty Index	**6**
V	**Calculation of Index Numbers** Methods of calculation of WPI, CPI, HDI and Preparation Observation Record	**6**

Text Book(s):
1. S.P.Gupta, Statistical Methods, Sultan Chand & Sons, 37th Edition, Reprint 2017 2. M.L. Jingan, The Economics of Development and Planning, Vrinda Publications P Ltd., India; 40th Edition, 2014
Reference Book(s):
1. R.K. Lekhi and Joginder Singh, Kalyani Publications, 18th Revised Edition, 2015 2. H.L. Ahuja, Development Economics, S.Chand Publication, Reprint of First Edition 2022
Web Resource(s):
1. www.worldbank.com 2. www.ophi.org.uk 3. www.yourarticlelibrary.com 4. www.economicsdiscussion.com

	Course Outcomes	
Upon successful completion of this course, the student will be able to:
CO No.	**CO Statement**	**Cognitive Level (K-Level)**
CO1	Understand scale, nominal and ordinal data,	**K1**
CO2	Understand various types of index numbers and HDI	**K2**
CO3	Compare various index numbers	**K3**
CO4	Analyse various index numbers and its relevance at global level	**K4**
CO5	Compute HDI, WPI and CPI	**K5**

Course Coordinator: Dr. J. Mohamed Zeyavudheen & Dr. A. Hidhayathulla

Semester	Course Code	Course Category	Hours/ Week	Credits	Marks for Evaluation		
					CIA	ESE	Total
III	23PECVAC1	Value Added Course	30	-	-	100	100

Course Title	Economics for JRF / NET / SET Examinations

SYLLABUS		
Unit	Contents	Hours
I	**Micro Economics – Welfare Economics – Environmental Economics** Pareto-Optimality, Welfare Economics: Fundamental Theorems - Coase Theorem - Valuation of Environmental Goods - Market Failure - Asymmetric Information	6
II	**Macro Economics – Monetary Economics** Consumption Function - IS – LM Model Approach - Inflation and Phillips Curve Analysis - Components of Money Supply - Instruments and Working of Monetary Policy	6
III	**Development Economics – International Economics** Theories of Economic Development - Rostow, Balanced & Unbalanced growth, Big Push approach - Exchange Rate: Concepts - - Tariff and Non-Tariff barriers to trade; Dumping	6
IV	**Statistics - Mathematics** Sampling methods & Sampling Distribution - Input-Output Model - Linear Programming - Linear Algebra – Matrices, Vector Spaces	6
V	**Fiscal Economics – Indian Economy** Monetary sector – Financial sector - Centre-State Financial Relations and Finance Commissions of India; FRBM - Public Debt - Public Budget	6

Text Book(s):

1. Ahuja H.L: Advanced Economic Theory, Micro Economic Theory, Micro economic analysis, S. Chand Company limited, 17th Edition, 2018.
2. D.N. Elhance&VeenaElhance, Fundamentals of Statistics, Kitab Mahal; New Revised Edition, 2018
3. M.L. Jhingan, International Economics,Vrinda Pub (P) Ltd. 7th Edition, 2016 & 2022 Reprint
4. Keith Bain and Peter Howells, Monetary Economics, Paul Graw Mac Millen, 1st Edition 2003

Reference Book(s):

1. N.Gregory Mankiw, Economics Principles and Applications, Cengage Learning India, 1st edition, 2009.
2. Somashekar,Ne.Thi.,Development and Environmental economics, NewAge International Pvt, ltd, 2nd Edition, 2019
3. Vasanth Desai, Entrepreneurship Development, Himalaya Publishing, 1st Edition,2019
4. A N Agarwal & M.K. Agarwal, Indian Economy Developmental Problems and Policies, New Age International Publishers, 44th Edition, 2023

Web Resource(s):

1. https://www.indianeconomy.net/
2. https://mostlyeconomics.wordpress.com/
3. https://www.ibef.org/

	Course Outcomes	
	Upon successful completion of this course, the student will be able to:	
CO No.	**CO Statement**	**Cognitive Level (K-Level)**
CO1	Understand the concepts related to Micro Economics, Welfare Economics and Environmental Economics	**K1**
CO2	Relate Market Failure and Asymmetric Information	**K2**
CO3	Apply the technical attributes of consumption function and sampling methods & sampling distribution	**K3**
CO4	Analyze the State Financial Relations	**K4**
CO5	Explain Pareto Optimality, Coase Theorem, ISLM Model, Philip Curve and Development Theories	**K5**

Course Coordinator: Dr. A.J. Haja Mohideen & Mr. A. M. Z. Mohammed Arsath Ali