DEVA MATHA COLLEGE, KURAVILANGAD

Department of Economics

TEACHING PLAN FOR THE YEAR 2021-22

List of Teachers During the Academic Year 2021-22		
Sl. No	**Name of Teachers**	**Teacher Code**
1.	Dr. Elsamma Joseph	EJ
2.	Ms. Jinu Joseph	JJ
3.	Mr. Harikumar R	HR
4.	Ms. Jyothis Maria Franklin	JMF
5.	Ms. Sony Jacob	SJ
6.	Ms. Ann Mary Sebastian	AMS

DEVA MATHA COLLEGE, KURAVILANGAD

Department of Economics

TEACHING PLAN FOR THE YEAR 2021-22

Teacher Code: EJ (Dr. Elsamma Joseph)

Class	Topic/paper	Theory (No. of Hours)
I DC (Sem I)	Perspectives and Methodology of Economics (EC1CRT01)	No. of Credits - 4 No. of Contact hours – 108
I DC (Sem II)	Micro Economic Analysis I (EC2CRT02)	No. of Credits – 5 No. of Contact hours – 108
II DC (Sem III)	Micro Economic Analysis II(EC3CRT03)	No. of Credits – 5 No. of Contact hours – 72
II DC (Sem IV)	Public Economics (EC4CRT06)	No. of Credits - 4 No. of Contact hours – 72
III DC (Sem V)	1. Open Course : Fundamentals of Economics (EC5OPT01)	No. of Credits - 4 No. of Contact hours – 72
	2. Environmental Economics (EC5CRT09)	No. of Credits - 4 No. of Contact hours – 90
III DC (Sem VI)	Money & Financial Markets (EC6CRT13)	No. of Credits - 4 No. of Contact hours – 108

Scheme of Work (2021-2022)

Name of the class: First Year Batch – Semester: I

Subject : Perspectives and Methodology of Economics (EC1CRT01)

No. of Credits - 4

No. of Contact hours – 108

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in – charge
Module 1	Methodology of Social Science	Lecturing, discussion	Dr. Elsamma Joseph
Module 2	Methodology, Concepts and tools of Economics	Lecturing, Assignments, discussion	
Module 3	Major Schools of Economic Thought	Lecturing, Assignments, discussion	
Module 4	Research Methodology	Lecturing, Assignments, discussion	

Name of the class: First Year Batch – Semester: II

Subject : Micro Economic Analysis I (EC2CRT02)

No. of Credits - 5

No. of Contact hours – 108

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in – charge
Module 1	Introduction to Microeconomics	Lecturing, discussion, Assignments,	Dr. Elsamma Joseph
Module 2	Demand and Supply Analysis	Lecturing, Assignments, discussion	
Module 3	Theory of Consumer Behaviour	Lecturing, Assignments, discussion	

Module 4	Theories of Production and Cost	Lecturing, Assignments, discussion	

Name of the class: Second Year Batch – Semester: III

Subject : Micro Economic Analysis II(EC3CRT03)

No. of Credits – 5
No. of Contact hours – 72

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Market Structure	Lecturing, discussion, Assignments,	Dr. Elsamma Joseph
Module 2	Monopolistic Competition and Oligopoly	Lecturing, Assignments, discussion	
Module 3	Income Distribution and Factor Pricing	Lecturing, Assignments, discussion	
Module 4	Welfare Economics	Lecturing, Assignments, discussion	

Name of the class: Second Year Batch – Semester: IV

Subject : Open Course : Fundamentals of Economics (EC5OPT01)

No. of Credits – 4

No. of Contact hours – 72

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in – charge

Module 1	Introduction to Public Finance	Lecturing, discussion, Assignments,	Dr. Elsamma Joseph
Module 2	Public Revenue	Lecturing, Assignments, discussion	
Module 3	Public Expenditure	Lecturing, Assignments, discussion	
Module 4	Federal Finance	Lecturing, Assignments, discussion	

Name of the class: Third Year Batch – Semester: V

Subject : Open Course : Fundamentals of Economics (EC5OPT01)

No. of Credits – 4

No. of Contact hours – 72

Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in – charge**
Module 1	Basic Concepts	Lecturing, discussion, Assignments,	Dr. Elsamma Joseph
Module 2	Public Economics	Lecturing, Assignments, discussion	
Module 3	Financial System and International Trade	Lecturing, Assignments, discussion	
Module 4	Indian Economic Development	Lecturing, Assignments, discussion	

Name of the class: Third Year Batch – Semester: V

Subject : Environmental Economics (EC5CRT09)

No. of Credits – 4

No. of Contact hours – 90

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in – charge
Module 1	Multidisciplinary nature of environmental studies	Lecturing, discussion, Assignments,	Dr. Elsamma Joseph
Module 2	Biodiversity and its conservation	Lecturing, Assignments, discussion	
Module 3	Economics and Environment	Lecturing, Assignments, discussion	
Module 4	Framework and Criteria for Environmental Analysis	Lecturing, Assignments, discussion	
Module 5	Human Rights–	Lecturing, Assignments, Discussion	

Name of the class: Third Year Batch – Semester: VI

Subject : Money & Financial Markets (EC6CRT13)

No. of Credits – 4

No. of Contact hours – 108

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in – charge

Module 1	Financial System	Lecturing, discussion, Assignments,	Dr. Elsamma Joseph
Module 2	Money and Central Banking	Lecturing, Assignments, discussion	
Module 3	Banking	Lecturing, Assignments, discussion	
Module 4	Money market	Lecturing, Assignments, discussion	

DEVA MATHA COLLEGE, KURAVILANGAD

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TEACHING PLAN FOR THE YEAR 2021-22

Teacher Code: JJ (Jinu Joseph)

Class	Topic/paper	Theory (No. of Hours)
I DC (Sem I)	Mathematics for Economic Analysis – 1 (EC1CMT03)	No. of Credits - 4 No. of Contact hours – 108
I DC (Sem II)	Mathematics for Economic Analysis – 2 (EC2CMT03)	No. of Credits - 4 No. of Contact hours – 108
II DC (Sem III)	Economics Of Growth & Development (EC3CRT04)	No. of Credits – 4 Total No. of Contact hours – 90 No. of Hours Taken - 45
II DC (Sem IV)	Macro Economics I (EC4CRT05)	No. of Credits – 5 Total No. of Contact hours – 90 No. of Hours Taken - 45
III DC (Sem V)	Introductory Econometrics (EC5CRT10)	No. of Credits – 4 No. of Contact hours – 90
	Macro Economics II (EC5CRT08)	No. of Credits – 5 Total No. of Contact hours – 108 Total No. of hours Taken – 63
III DC (Sem VI)	Indian Economy (EC6CRT14)	No. of Credits - 4 No. of Contact hours – 90
	International Economics (EC6CRT12)	No. of Credits – 4

		Total No. of Contact hours – 90 Total No. of hours Taken – 45
I PG (Sem II)	Indian Economyand Fiscal Federalism (EM 010203)	No. of Credits - 4 No. of Contact hours – 90

Scheme of Work (2021-2022)

Name of the class: First Year Batch – Semester: I

Subject : Mathematics for Economic Analysis – 1 (EC1CMT03)

No. of Credits - 4

No. of Contact hours – 108

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Quantitative Methods	Lecturing, problem solving, discussion	Ms. Jinu Joseph
Module 2	Differential and Integral calculus	Lecturing, problem solving, Assignments, discussion	
Module 3	Input- output analysis	Lecturing, problem solving, Assignments, discussion	
Module 4	Linear Programming	Lecturing, problem solving, Assignments, discussion	

Name of the class: First Year Batch – Semester: II

Subject : Mathematics for Economic Analysis – 2 (EC2CMT03)

No. of Credits - 4

No. of Contact hours – 108

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Theory of Consumer Behaviour and Firms	Lecturing, discussion, Assignments,	Ms. Jinu Joseph
Module 2	Market Structures	Lecturing, problem solving, Assignments, discussion	
Module 3	Game Theory	Lecturing, problem solving, Assignments, discussion	

Name of the class: Second Year Batch – Semester: III

Subject : Core 4 - Economics Of Growth & Development (EC3CRT04)

No. of Credits – 4

Total No. of Contact hours – 90

Total No. of hours Taken – 45

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Introduction to Economics of Growth and Development	Lecturing, discussion, Assignments,	Ms. Jinu Joseph
Module 2	Approaches to Development	Lecturing, problem solving, Assignments, discussion	

Name of the class: Second Year Batch – Semester: IV

Subject : Core 5 - Macro Economics I (EC4CRT05)

No. of Credits – 5

Total No. of Contact hours – 90

Total No. of hours Taken – 45

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Introduction to Macroeconomics	Lecturing, discussion, Assignments,	Ms. Jinu Joseph
Module 2	Classical Macroeconomics	Lecturing, problem solving, Assignments, discussion	

Name of the class: Third Year Batch – Semester: V

Subject : Core10- Introductory Econometrics (EC5CRT10)

No. of Credits – 4

No. of Contact hours – 90

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Classical Liner Regression Model	Lecturing, discussion, Assignments,	Ms. Jinu Joseph
Module 2	Estimation of PRF	Lecturing, Assignments, discussion	
Module 3	Evaluation of SRF	Lecturing, Assignments, discussion	
Module 4	Hypothesis testing and estimation	Lecturing, Assignments, discussion	

Module 5	Relaxing the assumptions of Classical Linear Regression Model	Lecturing, Assignments, discussion	

Name of the class: Third Year Batch – Semester: V

Subject : Core 8- Macro Economics II (EC5CRT08)

No. of Credits – 5

Total No. of Contact hours – 108

Total No. of hours Taken – 63

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Theories of Consumption and Investment	Lecturing, discussion, Assignments,	Ms. Jinu Joseph
Module 2	Money, Inflation and Unemployment	Lecturing, Assignments, discussion	

Name of the class: Third Year Batch – Semester: VI

Subject : Core 14 –Indian Economy (EC6CRT14)

No. of Credits – 4

No. of Contact hours – 90

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge

Module 1	Economic Development Strategy since Independence	Lecturing, discussion, Assignments,	Ms. Jinu Joseph
Module 2	Demographic Features	Lecturing, Assignments, discussion	
Module 3	Agriculture, Industry and Service Sector	Lecturing, Assignments, discussion	
Module 4	Economic Planning and Development Issues	Lecturing, Assignments, discussion	
Module 5	Kerala Economy		

Name of the class: Third Year Batch – Semester: VI

Subject : Core 12 - International Economics (EC6CRT12)

No. of Credits – 4

Total No. of Contact hours – 90

Total No. of hours Taken – 45

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Introduction to International Economics and Trade Theories	Lecturing, discussion, Assignments,	Ms. Jinu Joseph
Module 2	Balance of Payments	Lecturing, Assignments, discussion	

Scheme of Work (2021-2022)

Name of the class: First Year PG Batch – Semester: II

Subject : Indian Economy and Fiscal Federalism (EM 010203)

No. of Credits - 4

No. of Contact hours – 90

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	India's Economic Transformation	Lecturing, problem solving, discussion	Ms. Jinu Joseph
Module 2	Trade and External Sector	Lecturing, problem solving, Assignments, discussion	
Module 3	Financial Sector in India	Lecturing, problem solving, Assignments, discussion	
Module 4	Fiscal Policy in India	Lecturing, problem solving, Assignments, discussion	

DEVA MATHA COLLEGE, KURAVILANGAD

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TEACHING PLAN FOR THE YEAR 2021-22

Teacher Code: HR (Harikumar R)

Class	Topic/paper	Theory (No. of Hours)
II DC (Sem III)	Economics of Growth and Development (EC3CRT04)	No. of Credits - 4 No. of Contact hours – 45
II DC (Sem IV)	Macro Economics I (EC4CMT05)	No. of Credits - 5 No. of Contact hours – 45
III DC (Sem V)	Macro Economics II (EC5CRT08) Environmental Economics (EC5CRT09)	No. of Credits – 5 No. of Contact hours – 45 No. of Credits – 4 No. of Contact hours – 44
III DC (Sem VI)	International Economics (EC6CRT12) Business Economics (EC6CBT02)	No. of Credits - 4 No. of Contact hours – 45 No. of Credits - 3 No. of Contact hours – 72

Scheme of Work (2021-2022)

Name of the class: Second Year Batch – Semester: III

Subject : Economics of Growth and Development (EC3CRT04)

No. of Credits - 4

No. of Contact hours – 45

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 3	Theories and Factors in the Development Process	Lecturing, assignments, discussion	Mr. Harikumar R
Module 4	Human Resource and Development	Lecturing, assignments, discussion	

Name of the class: Second Year Batch – Semester: IV

Subject : Macro Economics I (EC4CMT05)

No. of Credits - 5

No. of Contact hours – 45

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 3	Keynesian Macroeconomics	Lecturing, assignments, discussion	Mr. Harikumar R
Module 4	Orthodox Keynesian Models	Lecturing, assignments, discussion	

Name of the class: Third Year Batch – Semester: V

Subject : Core 8 - Macro Economics II (EC5CRT08)

No. of Credits – 5

No. of Contact hours – 45

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 3	Fluctuations, Monetary and Fiscal Policies	Lecturing, Assignments, discussion	Mr. Harikumar R
Module 4	Post Keynesian Schools of Macroeconomics Thoughts	Lecturing, Assignments, discussion	

Name of the class: Third Year Batch – Semester: V

Subject : Core 9 – Environmental Economics (EC5CRT09)

No. of Credits – 4

No. of Contact hours – 45

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Unit 1: Multidisciplinary nature of environmental studies Unit 2: Natural Resources Unit 3: Ecosystems	Lecturing, Assignments, discussion	Mr. Harikumar R
Module 4	Unit 1: Biodiversity and its conservation Unit 2: Environmental Pollution Unit 3: Social Issues and the Environment	Lecturing, Assignments, discussion	

Name of the class: Third Year Batch – Semester: VI

Subject : Choice Based Course 02 –Business Economics (EC6CBT02)

No. of Credits – 3

No. of Contact hours – 72

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Introduction to Business Economics	Lecturing, Assignments, discussion	Mr. Harikumar R
Module 2	Demand Analysis and Forecasting	Lecturing, Assignments, discussion	

Module 3	Production and Cost Analysis	Lecturing, Assignments, discussion	
Module 4	Pricing and Profits	Lecturing, Assignments, discussion	
Module 5	Long Term Investment Decisions	Lecturing, Assignments, discussion	

Name of the class: Third Year Batch – Semester: VI

Subject : Core 12 –International Economics (EC6CRT12)

No. of Credits – 4

No. of Contact hours – 45

Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 3	Foreign Exchange Market	Lecturing, Assignments, discussion	Mr. Harikumar R
Module 4	International Monetary and Trade System	Lecturing, Assignments, discussion	

DEVA MATHA COLLEGE, KURAVILANGAD

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TEACHING PLAN FOR THE YEAR 2021-22

Teacher Code: JMF (Jyothis Maria Franklin)

Class	Topic/paper	Theory (No. of Hours)
I PG (Sem II)	Micro Economic Theory- 2	No. of Credits - 4 No. of Contact hours – 90
I PG (Sem II)	Univariate Time Series Econometrics	No. of Credits - 4 No. of Contact hours – 90
I PG (Sem I)	Micro Economic Theory- 1	No. of Credits - 4 No. of Contact hours – 90
I PG (Sem I)	Basic Econometrics	No. of Credits - 4 No. of Contact hours – 90
II PG (Sem III)	Public Finance	No. of Credits - 4 No. of Contact hours –90

Scheme of Work (2021-2022)

Name of the class: First Year Batch (PG 2020 Admission) – Semester: II

Subject: Core: Micro Economic Theory- 2 (EM010201)

No. of Credits - 4

No. of Contact hours – 90

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge

Module 1	Theories of the Firm	Lecturing, Sem, Assign,Group discussion	Ms. Jyothis Maria Franklin
Module 2	Public Goods and Public Choice	Lecturing, Sem, Assign,Group discussion	
Module 3	Market Failure and Behavioural Economics	Lecturing, Sem, Assign,Group discussion	
Module 4	General Equilibrium and Welfare Economics	Lecturing, Sem, Assign,Group discussion	

Name of the class: First Year Batch (PG 2020 Admission) – Semester: II

Subject: Core: Univariate Time Series Econometrics (EM010205)

No. of Credits - 4

No. of Contact hours – 90

Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	Time Series Decomposition	Lecturing, Seminar, Assign, Lab	Ms. Jyothis Maria Franklin
Module 2	Stochastic Process and Stationarity	Lecturing, Seminar, Assign, Lab	
Module 3	Stationarity Tests	Lecturing, Seminar, Assign, Lab	
Module 4	ARIMA & ARFIMA Modelling and Forecasting	Lecturing, Seminar, Assign, Lab	
Module 5	Growth Rate Estimation	Lecturing, Seminar, Assign, Lab	

Scheme of Work (2020-2021)

Name of the class: First Year Batch (PG 2021 Admission) – Semester: I

Subject: Core: Micro Economic Theory- 1 (EM010101)

No. of Credits - 4

No. of Contact hours – 90

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Theory of Consumer Behaviour	Lecturing, Sem, Assign,Group discussion	Ms. Jyothis Maria Franklin
Module 2	Theory of Production and Cost Production Function	Lecturing, Sem, Assign,Group discussion	
Module 3	Oligopoly and Economic Behaviour of Firm	Lecturing, Sem, Assign,Group discussion	
Module 4	Theories on Distribution	Lecturing, Sem, Assign,Group discussion	

Name of the class: First Year Batch (PG 2021 Admission) – Semester: I

Subject: Core: Micro Economic Theory- 1 (EM010105)

No. of Credits - 4

No. of Contact hours – 90

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Simple Regression Model	Lecturing, Sem, Assign,Group discussion, Lab	Ms. Jyothis Maria Franklin
Module 2	Multiple Regression Model	Lecturing, Sem, Assign,Group discussion, Lab	
Module 3	Violation of Assumptions of Classical Model	Lecturing, Sem, Assign,Group discussion, Lab	
Module 4	Simultaneous Equation Models	Lecturing, Sem, Assign,Group discussion, lab	
Module 5	Dynamic Econometric Models	Lecturing, Sem, Assign,Group discussion, lab	

Name of the class: First Year Batch (PG 2020 Admission) – Semester: III

Subject: Core: Public Finance and Public Choice (EM010303)

No. of Credits - 4

No. of Contact hours – 90

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Role of Government and Provision of Public Goods	Lecturing, Sem, Assign,Group discussion	Ms. Jyothis Maria Franklin

Module 2	Public Choice and Collective Decision-Making	Lecturing, Sem, Assign,Group discussion	
Module 3	Theories of Public Expenditure and Taxation	Lecturing, Sem, Assign,Group discussion	
Module 4	Budgetary Policy, Public Deficit and Debt	Lecturing, Sem, Assign,Group discussion	
Module 5	Fiscal Federalism: Theory and Practice	Lecturing, Sem, Assign,Group discussion	

DEVA MATHA COLLEGE, KURAVILANGAD

Department of Economics

TEACHING PLAN FOR THE YEAR 2021-22

Teacher Code: SJ (Sony Jacob)

Class	Topic/paper	Theory (No. of Hours)
I PG (Sem II)	Macro Economic Theory- 2	No. of Credits - 4 No. of Contact hours – 90
I PG (Sem II)	Mathematical Methods for Econometric Analysis- 2	No. of Credits - 4 No. of Contact hours – 90
I PG (Sem II)	Term Paper on Econometric Methods	No. of Credits – 2 No. of Contact hours – 36
I PG (Sem I)	Statistical Methods for Econometric Analysis	No. of Credits - 4 No. of Contact hours –90
I PG (Sem I)	Mathematical Methods for Econometric Analysis-1	No. of Credits - 4 No. of Contact hours –90
II PG (Sem III)	Econometrics of Limited Dependent Variable Models and Non-Linear Regression	No. of Credits - 4 No. of Contact hours –90

Scheme of Work (2021-2022)

Name of the class: First Year Batch (PG 2020 Admission) – Semester: II

Subject: Core: Macro Economic Theory- 2 (EM010202)

No. of Credits - 4

No. of Contact hours – 90

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge

Module 1	Behavioural Foundations of Macro Economics	Lecturing, Sem, Assign,Group discussion	Ms. Sony Jacob
Module 2	Demand for Money and supply of Money	Lecturing, Sem, Assign,Group discussion	
Module 3	Macro Economic Business Cycles	Lecturing, Sem, Assign,Group discussion	
Module 4	Supply Side Economics	Lecturing, Sem, Assign,Group discussion	
Module 5	Government Solvency & Constraints on Fiscal Policy	Lecturing, Sem, Assign,Group discussion	

Name of the class: First Year Batch (PG 2020 Admission) – Semester: II

Subject: Core: Mathematical Methods for Econometric Analysis– 2 (EM010204)

No. of Credits - 4

No. of Contact hours – 90

Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	Classical Programming / Optimisation	Lecturing, problem solving, Assignments, discussion	Ms. Sony Jacob
Module 2	Mathematical Programming: Linear and Non-linear Programming	Lecturing, problem solving, Assignments, discussion	
Module 3	Integration	Lecturing, problem solving, Assignments, discussion	

Module 3	Differential and Difference	Lecturing, problem solving, Assignments, discussion	

Name of the class: First Year Batch (PG 2020 Admission) – Semester: II

Subject: Core: Term Paper on Econometric Methods (EM010206)

No. of Credits - 2

No. of Contact hours – 36

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
1	Problem Definition	Lecturing, understanding different economic problems, discussion	Ms. Sony Jacob
2	Use of Econometric Methodology	Lecturing, problem solving, lab	
3	Analysis and Argumentation	Lecturing, problem solving, lab, discussion	
4	Integration of the analytical results with the findings of the study	Lab & discussions	

Name of the class: First Year Batch (PG 2021 Admission) – Semester: 1

Subject: Core- Statistical Methods for Econometric Analysis

No. of Credits – 4

No. of Contact hours – 90

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Random Variables and Mathematical Expectations	Lecturing, Problem solving, Seminar, Assignments	Ms. Sony Jacob
Module 2	Probability Distribution	Lecturing, Problem solving, Seminar, Assignments	
Module 3	Estimation and Hypothesis Testing	Lecturing, Problem solving, Seminar, Assignments	
Module 4	Sapling Techniques	Lecturing, Problem solving, Seminar, Assignments	

Name of the class: First Year Batch (PG 2021 Admission) – Semester: 1

Subject: Core- Mathematical Methods for Econometric Analysis-1

No. of Credits – 4

No. of Contact hours – 90

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Matrices and Linear System	Lecturing, Problem solving, Seminar, Assignments	Ms. Sony Jacob
Module 2	Determinants and Inverse	Lecturing, Problem solving, Seminar, Assignments	

Module 3	Euclidian Space	Lecturing, Problem solving, Seminar, Assignments	
Module 4	Univariate Calculus: Comparative Statics	Lecturing, Problem solving, Seminar, Assignments	
Module 5	Multivariate Calculus	Lecturing, Problem solving, Seminar, Assignments	

Name of the class: Second Year Batch (PG 2020 Admission) – Semester: III

Subject: Core– Econometrics of Limited Dependent Variable Models and Non-Linear Regression

No. of Credits – 4

No. of Contact hours – 90

Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	Qualitative Dependent Variable Models	Lecturing, Seminar, Assignments, Lab	Ms. Sony Jacob
Module 2	Multinomial Models & Bayesian Logistic Regression	Lecturing, Seminar, Assignments, Lab	
Module 3	Limited Dependent Variable Models	Lecturing, Seminar, Assignments, Lab	
Module 4	Censored Regression Models & Models for Duration	Lecturing, Seminar, Assignments, Lab	
Module 5	Nonlinear Regression Models	Lecturing, Seminar, Assignments, Lab	

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TEACHING PLAN FOR THE YEAR 2021-22

Teacher Code: AMS (Ann Mary Sebastian)

Class	Topic/paper	Theory (No. of Hours)
I PG (Sem I)	Macro Economic Theory- 1	No. of Credits - 4 No. of Contact hours –90
II PG (Sem III)	International Finance and Economics	No. of Credits - 4 No. of Contact hours –90
II PG (Sem III)	Economics of Growth and Development	No. of Credits - 4 No. of Contact hours –90
II PG (Sem III)	Multivariate Time Series Econometrics	No. of Credits - 4 No. of Contact hours –90

Scheme of Work (2021-2022)

Name of the class: First Year Batch (PG 2021 Admission) – Semester: 1

Subject: Core- Macro Economic Theory- 1

No. of Credits – 4

No. of Contact hours – 90

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge

Module 1	Classical versus Keynesian Approach	Lecturing, Group discussion, Seminar, Assignments	Ms. Ann Mary Sebastian
Module 2	Monetarism	Lecturing, Group discussion, Seminar, Assignments	
Module 3	New Classical Macroeconomics	Lecturing, Group discussion, Seminar, Assignments	
Module 4	New Keynesian School	Lecturing, Group discussion, Seminar, Assignments	

Name of the class: Second Year Batch (PG 2020 Admission) – Semester: III

Subject: Core: International Finance and Economics (EM010301)

No. of Credits - 4

No. of Contact hours – 90

Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	International Trade Theory	Lecturing, Sem, Assign,Group discussion	Ms. Ann Mary Sebastian
Module 2	International Trade Policy	Lecturing, Sem, Assign,Group discussion	
Module 3	Balance of Payments and International Finance	Lecturing, Sem, Assign,Group discussion	

Module 4	Capital Mobility and Trade Issues	Lecturing, Sem, Assign,Group discussion	

Name of the class: Second Year Batch (PG 2020 Admission) – Semester: III

Subject: Core: Economics of Growth and Development (EM010302)

No. of Credits - 4

No. of Contact hours – 90

Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	Concepts and Measurements	Lecturing, Sem, Assign,Group discussion	Ms. Ann Mary Sebastian
Module 2	Theories of Underdevelopment	Lecturing, Sem, Assign,Group discussion	
Module 3	Theories of Development and Growth	Lecturing, Sem, Assign,Group discussion	
Module 4	Approaches to Development	Lecturing, Sem, Assign,Group discussion	
Module 5	Institution and Development	Lecturing, Sem, Assign,Group discussion	

Name of the class: Second Year Batch (PG 2020 Admission) – Semester: III

Subject: Core: Multivariate Time Series Econometrics (EM010304)

No. of Credits - 4

No. of Contact hours – 90

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	System of Equations and Dimensionality	Lecturing, Sem, Assign,Lab	Ms. Ann Mary Sebastian
Module 2	Modelling Uncertainty and Expectations	Lecturing, Sem, Assign,Lab	
Module 3	Vector Autoregressive Models	Lecturing, Sem, Assign,Lab	
Module 4	Cointegration Analysis	Lecturing, Sem, Assign,Lab	
Module 5	Impulse Response Function	Lecturing, Sem, Assign,Lab	

DEVA MATHA COLLEGE, KURAVILANGAD

Department of Mathematics

TEACHING PLAN FOR THE YEAR 2018-19

Teacher Code: J T

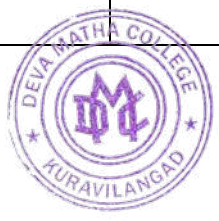
Teacher: Jyothy Thomas

June 2018

Class	Topic/paper	Theory
B.Sc. Mathematics(core) – Sem I	Foundations of Mathematics-Module II	4
B.Sc. Mathematics(core) – Sem V	Mathematical Analysis-Module I Module II-Neighbourhood	15 6
B.Sc. Mathematics(core) – Sem V	Fuzzy Mathematics- Module I-Crisp set and fuzzy set	10
B.Sc. Phy/Chem (compl) – Sem III	Vector calculus, Analytic Geometry and Abstract Algebra- Module III: Analytic Geomety	12
M.Sc. Mathematics-Sem I	Topogoly- Module 1- Definitions and examples	12
M.Sc. Mathematics-Sem III	Differential Geometry- Module 1	15

July 2018

Class	Topic/paper	Theory
B.Sc. Mathematics(core) – Sem I	Foundations of Mathematics-Module II	9
B.Sc. Mathematics(core) – Sem V	Mathematical Analysis-Module II Module III	19 3
B.Sc. Mathematics(core) – Sem V	Fuzzy Mathematics- Module I	10



B.Sc. Phy/Chem (compl) – Sem III	Vector calculus, Analytic Geometry and Abstract Algebra- Module III: Analytic Geomety	13
M.Sc. Mathematics-Sem I	Topogoly- Module 1- Basic concepts Module 2- Continuity	12 10
M.Sc. Mathematics-Sem III	Differential Geometry- Module II-The Gauss map, Geodesics	20

Aug 2018

Class	Topic/paper	Theor
B.Sc. Mathematics(core) – Sem I	Foundations of Mathematics-Module II Module III	2 8
B.Sc. Mathematics(core) – Sem V	Mathematical Analysis-Module III	22
B.Sc. Mathematics(core) – Sem V	Fuzzy Mathematics- Module II	10
B.Sc. Phy/Chem (compl) – Sem III	Vector calculus, Analytic Geometry and Abstract Algebra- Module II: Integration in vector field	10
M. Sc. Mathematics – Sem I	Module 2- Spaces with special properties Module 3- connectedness	12 12
M.Sc. Mathematics-Sem III	Differential Geometry- Module 3	20

Sept 2018

Class	Topic/paper	Theor
B.Sc. Mathematics(core) – Sem I	Foundations of Mathematics-Module III	8
B.Sc. Mathematics(core) – Sem V	Mathematical Analysis-Module III Module IV	5 17
B.Sc. Mathematics(core) – Sem V	Fuzzy Mathematics- Module II	10
B.Sc. Phy/Chem (compl) – Sem III	Vector calculus, Analytic Geometry and Abstract Algebra- Module II: Integration in vector field	10

M. Sc. Mathematics – Sem I	Module 3- connectedness Module 4- Hierarchy of Separation Axioms	10 10
M.Sc. Mathematics-Sem III	Differential Geometry- Module 3- Arc length and line integral Module 4 – Curvature , parametrized surfaces	5 15

Oct 2018

Class	Topic/paper	Theory
B.Sc. Mathematics(core) – Sem V	Mathematical Analysis_Module IV	8
B.Sc. Mathematics(core) – Sem V	Fuzzy Mathematics- Module II	10
B.Sc. Mathematics(core) – Sem I	Foundations of Mathematics-Module III	4
B.Sc. Phy/Chem (compl) – Sem III	Vector calculus, Analytic Geometry and Abstract Algebra- Module II: Integration in vector field	5
M. Sc. Mathematics – Sem I	Module 4 – compactness and Separation Axioms	12
M.Sc. Mathematics-Sem III	Differential Geometry- Module 4- local equivalence of surfaces and parametrized surfaces	15

Nov 2018

Class	Topic/paper	Theory
B.Sc. Mathematics(core) – Sem VI	Real Analysis – Module I-Infinite series	20
B. Sc. Phy/Chem (Compl)-Sem IV	Module II-Laplace Transforms	5
M. Sc. Mathematics – Sem II	Advanced Topology- Module 1 - Urysohn Characterisation of Normality, Products and co-products	20
M.Sc. Mathematics-Sem IV	Mathematical Economics- Module 1 – The theory of consumer behaviour	20

Dec 2018

Class	Topic/paper	Theory
B.Sc. Mathematics(core) – Sem VI	Real Analysis – Module II-upto theorems on continuity	20
B. Sc. Phy/Chem (Compl)-Sem IV	Module II-Laplace Transforms	3
M. Sc. Mathematics – Sem II	Advanced Topology- Module 1-cartesian product of family of sets Module 2 – Embedding	5 10
M. Sc. Mathematics–Sem IV	Mathematical Economics- Module 2 – The production function	18

Jan 2019

Class	Topic/paper	Theory
B.Sc. Mathematics(core) – Sem VI	Real Analysis – Module II Real Analysis – Module III- upto The integrals as the limit of a sum	5 20
B. Sc. Phy/Chem (Compl)-Sem IV	Module II-Laplace Transforms	5
M. Sc. Mathematics – Sem II	Advanced Topology-Module 2-The Urysohn's Metrisation theorem Module 3-Convergence of nets	5 15
M.Sc. Mathematics-Sem IV	Mathematical Economics- Module 2 – Types of production function Module 3 –input – output analysis	12 11

Feb 2019

Class	Topic/paper	Theory
B.Sc. Mathematics(core) – Sem VI	Real Analysis – Module III cont Real Analysis – Module IV-Uniform convergence	10 10
B. Sc. Phy/Chem (Compl)-Sem IV	Module II-Laplace Transforms	5

M. Sc. Mathematics – Sem II	Advanced Topology Module 3-ultra filters and compactness Module 4 – Compactness	10 12
M.Sc. Mathematics-Sem IV	Module 3 – Input – output analysis Module 4 – Difference equations	9 12

Mar 2019

Class	Topic/paper	Theor
B.Sc. Mathematics(core) – Sem VI	Real Analysis – Module IV-Uniform convergence	5
B. Sc. Phy/Chem (Compl)-Sem IV	Module II-Laplace Transforms	2
M. Sc. Mathematics – Sem II	Advanced Topology Module 4-compactification	13
M.Sc. Mathematics-Sem IV	Module 4 – Difference equations	8

Teacher Code: A A

Teacher: Anju C Augustine

Sept 2018

Class	Topic/paper	Theor
M. Sc. Mathematics – Sem I	Linear Algebra - Module I Module II	15 5

Oct 2018

Class	Topic/paper	Theor
B.Sc. Mathematics(core) – Sem III	Calculus-Module II-Partial Differential Equations	18
B.Sc. Mathematics(core) – Sem V	Fuzzy Mathematics-Module III Module IV	20 20
B.Sc. Phy/Chem (compl) – Sem I	Partial Differentiation, Matrices, Trigonometry And numerical Methods- Module IV: Numerical Methods	15

M. Sc. Mathematics – Sem I	Linear Algebra Module II Module III	25 10

Nov 2018

Class	Topic/paper	Theory
B.Sc. Mathematics(core) – Sem IV	Module 3-Theory of numbers	8
B.Sc. Mathematics(core) – Sem VI	Operations Research-Module 1-Mathematical Preliminaries and LPP	20
B.Sc. Phy/Chem (compl) – Sem II	Integral Calculus and Differential Equations- Module 1 – Volume	8
M. Sc. Mathematics – Sem I	Linear Algebra Module III Module IV	8 27
M. Sc. Mathematics – Sem II	Abstract Algebra Module I-upto factorisation of polynomials	22

Dec 2018

Class	Topic/paper	Theory
B.Sc. Mathematics(core) – Sem IV	Module 3-Theory of numbers	7
B.Sc. Mathematics(core) – Sem VI	Operations Research-Module 2 - Simplex method	10
B.Sc. Phy/Chem (compl) – Sem II	Integral Calculus and Differential Equations- Module 1 – Area	7
M. Sc. Mathematics – Sem II	Abstract Algebra Module I Module II-upto Geometric constructions	3 15

Jan 2019

Class	Topic/paper	Theory
B.Sc. Mathematics(core) – Sem IV	Module 4-Laplace Transorms	8

B.Sc. Mathematics(core) – Sem VI	Operations Research-Module 2 – Dual simplex method Module 3- Transportation problem	10 10
B.Sc. Phy/Chem (compl) – Sem II	Integral Calculus and Differential Equations- Module 2- Double integral	8
M. Sc. Mathematics – Sem II	Abstract Algebra- Module II Module III-upto Automorphism of fields	10 12

Feb 2019

Class	Topic/paper	Theory
B.Sc. Mathematics(core) – Sem IV	Module 4-Laplace Transorms	8
B.Sc. Mathematics(core) – Sem VI	Operations Research-Module 3 – Assignment problem Module 4- Queuing theory	7 15
B.Sc. Phy/Chem (compl) – Sem II	Integral Calculus and Differential Equations- Module 2- Triple Integral	9
M. Sc. Mathematics – Sem II	Abstract Algebra Module III Module IV	8 12

Mar 2019

Class	Topic/paper	Theory
B.Sc. Mathematics(core) – Sem IV	Module 4-Laplace Transorms	4
M. Sc. Mathematics – Sem II	Abstract Algebra- Module IV	8

Scheme of Work (2018-2019)

Name of the class: I B.Sc. Mathematics

Semester:I

MM1CRT01-Foundations of Mathematics			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**

Module 1	**Basics of logic**	**Lect /Assig/Quiz**	**Anju T Thomas**
Module 2	**Set theory**	**Lecture, Assignment**	**Jyothy Thomas**
Module 3	**Relations**	**Lecture, Assignment**	**Jyothy Thomas**
Module 4	**Theory of eqautions**	**Lect,Assign**	**Anju T Thomas**
Other activities			

Name of the class: I B.Sc. Mathematics

Semester:II

MM2CRT01-Analytic Geometry, Trigonometry and Differential Calcu			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Analytic Geometry**	**Lect, Assign,Quiz**	**Tess Jose**
Module 2	**Polar Form**	**Lect,Assign**	**Tess Jose**
Module 3	**Trigonometry**	**Lect /Assign/Quiz**	**Anju T Thomas**
Module 4	**Differential Calculus**	**Lect /Assign**	**Anju T Thomas**
Other activities			

Name of the class: II B.Sc. Mathematics

Semester:III

MM3CRT01 – Calculus			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Differential Calculus**	**Lect /Assign/Quiz**	**Anju T Thomas**
Module 2	**Partial Differentiation**	**Lect /Assign/Group**	**Anju C Augustine**
Module 3	**Integral Calculus**	**Lect, Assign**	**Christy Tom Mathews**
Module 4	**Multiple Integrals**	**Lect, Assign, Quiz**	**Christy Tom Mathews**
Other activities			

Name of the class:II B.Sc. Mathematics

Semester:IV

MM4CRT01 : Vector Calculus, Theory of Numbers and Laplace Transf			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Vector differentiation**	**Lect ,Assign**	**Christy Tom Mathews**
Module 2	**Vector Integration**	**Lect ,Assign, Quiz**	**Christy Tom Mathews**
Module 3	**Theory of Numbers**	**Lect ,Assign,Quiz**	**Anju C Augustine**
Module 4	**Laplace Transform**	**Lect ,Assign,Quiz**	**Anju C Augustine**
Other activities			

Name of the class:III B.Sc. Mathematics

Semester:V

MM5B01-Mathematical Analysis			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	Intervals, properties of R	**Lect,Sem,Assign**	**Jyothy Thomas**
Module 2	Neighbourhood, Bolzano weierstrass theorem	**Lect,Assign**	**Jyothy Thomas**
Module 3	Sequences	**Lect,Assign**	**Jyothy Thomas**
Module 4	Complex numbers	**Lect,Assign**	**Jyothy Thomas**
Other activities			

Name of the class: III B.Sc. Mathematics

Semester:V

MM5B02: DIFFERENTIAL EQUATIONS			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**

Module 1	**Ordinary Differential Equations**	**Lect, Semi**	**Christy Tom Mathews**
Module 2	**The method of undetermined coefficients**	**Lect, Assign**	**Christy Tom Mathews**
Module 3	**Power series**	**Lect, Assign, Quiz**	**Christy Tom Mathews**
Module 4	**Partial Differential Equations**	**Lect, Assign, Quiz**	**Christy Tom Mathews**
Other activities			

Name of the class: III B.Sc. Mathematics

Semester:V

MM5B03: ABSTRACT ALGEBRA			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Group**	**Lect/Assign/Quiz**	**Anju T Thomas**
Module 2	**Cyclic groups, cosets**	**Lect/Assign/Group**	**Anju T Thomas**
Module 3	**Homomorphism, Rings, fields**	**Lect/Sem/Assign**	**Anju T Thomas**
Module 4	**Characteristic of a ring**	**Lect/Sem/Assign**	**Anju T Thomas**
Other activities			

Name of the class: III B.Sc. Mathematics

Semester:V

MM5B04 : FUZZY MATHEMATICS			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Crisp set and fuzzy set**	**Lect,Sem,Assign**	**Jyothy Thomas**
Module 2	**Operations on fuzzy set**	**Lect,Sem,Assign**	**Jyothy Thomas**
Module 3	**Fuzzy operations**	**Lect,Sem,Assign**	**Anju C Augustine**

Module 4	**Fuzzy Logic**	**Lect,Sem,Assign**	**Anju C Augustine**
Other activities			

Name of the class: III UG (Open Course)

Semester:V

MM5D02:(Open Course) APPLICABLE MATHEMATICS			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Permutation and Combination,Trigonometry**	**Lect, Assign**	**Jyothis K Mohan**
Module 2	**Probability**	**Lect, Assign,Quiz**	**Jyothis K Mohan**
Module 3	**LCM, HCF,Profi ,Loss**	**Lect,Sem**	**Lian Mathew**
Module 4	**simple interest, Time and work**	**LectAssign**	**Lian Mathew**
Other activities			

Name of the class: III B.Sc. Mathematics

Semester:VI

MM6B01: REAL ANALYSIS			**credit: 5, Hrs: 90**
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Infinite series**	**Lect, Assign**	**Jyothy Thomas**
Module 2	**Continuous functions**	**Lect, Quiz**	**Jyothy Thomas**
Module 3	**Riemann Integration**	**Lect, Assign**	**Jyothy Thomas**
Module 4	**Uniform Convergence**	**Lect,Quiz**	**Jyothy Thomas**
Other activities			

Name of the class: III B.Sc. Mathematics

Semester:VI

MM6B02: COMPLEX ANALYSIS			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Analytic functions**	**Lect, Assig**	**Anju T Thomas**
Module 2	**Complex Integration**	**Lect, Quiz**	**Anju T Thomas**
Module 3	**Series**	**Lect, Assign**	**Anju T Thomas**
Module 4	**Residues and poles**	**Lect, Assign**	**Anju T Thomas**
Other activities			

Name of the class: III B.Sc. Mathematics

Semester:VI

MM6B03: DISCRETE MATHEMATICS			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Graph Theory**	**Lect, Assig**	**Lian Mathew**
Module 2	**Euler and Hamiltonian graphs**	**Lect, Quiz**	**Lian Mathew**
Module 3	**Cryptography**	**Lect, Assign**	**Lian Mathew**
Module 4	**Poset and Lattices**	**Lect, Assign**	**Lian Mathew**
Other activities			

Name of the class: III B.Sc. Mathematics

Semester:VI

MM6B04: LINEAR ALGEBRA AND METRIC SPACES			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Vector space**	**Lect, Assig**	**Christy Tom Mathews**
Module 2	**Linear Transformations**	**Lect, Assig**	**Christy Tom Mathews**
Module 3	**Metric space**	**Lect, Group, Quiz**	**Lian Mathew**

Module 4	**Convergence**	**Lect, Assig**	**Lian Mathew**
Other activities			

Name of the class: III B.Sc. Mathematics

Semester:VI

MM6D01 : OPERATIONS RESEARCH			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Mathematical Preliminaries & LPP**	**Lect,Assign, Quiz**	**Anju C Augustine**
Module 2	**Simplex method**	**Lect,Assign**	**Anju C Augustine**
Module 3	**Transportation and Assignment Problems**	**Lect,Assign**	**Anju C Augustine**
Module 4	**Queuing Theory**	**Lect,Assign,Group**	**Anju C Augustine**
Other activities			

Name of the class:I M.Sc. Mathematics

Semester:I

MT01C01-Linear Algebra			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Vector space, Subspace**	**Lect,Assign**	**Anju C Augustine**
Module 2	**Linear Transfromation**	**Lect, Assig,Quiz**	**Anju C Augustine**
Module 3	**Determinants**	**Lect, Assig**	**Anju C Augustine**
Module 4	**Elementary canonical forms**	**Lect ,Quiz**	**Anju C Augustine**
Other activities			

Name of the class: I M.Sc. Mathematics

Semester:I

MT01C02-Basic Topology			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Definitions and basic concepts**	**Lect, Assign, Quiz**	**Jyothy Thomas**
Module 2	**Continuity**	**Lect, Assign,Group**	**Jyothy Thomas**
Module 3	**Connectedness**	**Lect,Sem**	**Jyothy Thomas**
Module 4	**Separation Axioms**	**Lect,Sem**	**Jyothy Thomas**
Other activities			

Name of the class: I M.Sc. Mathematics

Semester:I

MT01C03 Measure Theory and Integration			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Inroduction And Lebesgue measure**	**Lect,quiz**	**Geomon Cherian**
Module 2	**Lebesgue integral**	**Lect, Assign**	**Geomon Cherian**
Module 3	**Measure and integration**	**Lect, Sem**	**Geomon Cherian**
Module 4	**Convergence**	**Lect, Assign**	**Geomon Cherian**
Other activities			

Name of the class: I M.Sc. Mathematics

Semester:I

MT01C04-Graph Theory			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Basic results and directed graph, connectivity**	**Lect/Sem/Assign**	**Jyothis K Mohan**
Module 2	**Trees**	**Lect/Sem/Assign**	**Jyothis K Mohan**

Module 3	**Eulerian and Hamiltonian graphs, vertex colouring**	**Lect/Sem/Assign**	**Jyothis K Mohan**
Module 4	**Planarity and theorems on planarity**	**Lect/Sem/Assign**	**Jyothis K Mohan**
Other activities			

Name of the class: I M.Sc. Mathematics

Semester:I

MT01C05 Complex Analysis			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Analytic functions as mappings**	**Lect, Assign, Semi**	**Anju T Thomas**
Module 2	**Complex Integration**	**Lect, Quiz**	**Anju T Thomas**
Module 3	**zeroes and poles, Cauchy's theorem**	**Lect, Assig, Sem**	**Anju T Thomas**
Module 4	**Residues**	**Lect, Sem**	**Anju T Thomas**
Other activities			

Name of the class: I M.Sc. Mathematics

Semester:II

MT02C05 Abstract Algebra			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Direct Products**	**Lect, Assign**	**Anju C Augustine**
Module 2	**Extension fields**	**Lect,Sem,Assign**	**Anju C Augustine**
Module 3	**Sylow theorems**	**Lect,Sem**	**Anju C Augustine**
Module 4	**Galois theory**	**Lect,Sem,Quiz**	**Anju C Augustine**
Other activities			

Name of the class: I M.Sc. Mathematics

Semester:II

MT02C07 Advanced Topology			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Urysohn Characterisation of Normality, Products and co-products**	**Lect, Assign**	**Jyothy Thomas**
Module 2	**Embedding and metrisation**	**Lect,Sem,Assign**	**Jyothy Thomas**
Module 3	**Nets and filters**	**Lect,Sem ,Quiz**	**Jyothy Thomas**
Module 4	**Compactness**	**Lect,Sem**	**Jyothy Thomas**
Other activities			

Name of the class: I M.Sc. Mathematics

Semester:II

MT02C08-Advanced Complex Analysis			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Power series**	**Lect, Assign**	**Anju T Thomas**
Module 2	**Entire functions**	**Lect,Sem,Assign**	**Anju T Thomas**
Module 3	**The Riemann mapping theorem**	**Lect,Sem**	**Anju T Thomas**
Module 4	**Elliptic functions**	**Lect,Sem,Quiz**	**Anju T Thomas**
Other activities			

Name of the class: I M.Sc. Mathematics

Semester:II

MT02C90-Partial Differential Equations

Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Pfaffian differential equations	Lect,quiz	Jyothis K Mohan
Module 2	Non linear pde of first order	Lect, Assign	Jyothis K Mohan
Module 3	Second order differential equations	Lect, Sem	Jyothis K Mohan
Module 4	Non linear Differential equations	Lect, Assign	Jyothis K Mohan
Other activities			

Name of the class: I M.Sc. Mathematics

Semester:II

MT02C10-Real Analysis			
Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge
Module 1	Functions of bounded variables and rectifiable curves	Lect, Assign	Geomon Cherian
Module 2	The Riemann-Stielljes Integral	Lect,Sem,Assign	Geomon Cherian
Module 3	Sequences and series of functions	Lect,Sem	Geomon Cherian
Module 4	Some special functions	Lect,Sem,Quiz	Geomon Cherian
Other activities			

Name of the class:II M.Sc. Mathematics

Semester:III

MT03C12-Functional Analysis			
Subjects	Description of the Module/activity	Nature of work Lect/Sem/Assign/Group/Quiz etc	Teacher – in - charge

Module 1	**Vector space**	**Lect,Assign**	**Christy Tom Mathews**
Module 2	**Linear Functionals**	**Lect,Sem,Assign**	**Christy Tom Mathews**
Module 3	**Operators**	**Lect,Sem**	**Christy Tom Mathews**
Module 4	**Hahn_babach Theorem**	**Lect,Sem,Quiz**	**Christy Tom Mathews**
Other activities			

Name of the class: II M.Sc. Mathematics

Semester:III

	MT03C11Multivariate Calculus and Interal Transforms		
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Fourier Series**	**Lect,quiz**	**Geomon Cherian**
Module 2	**Multivariable differential Calculus**	**Lect, Assign**	**Geomon Cherian**
Module 3	**Implicit functions**	**Lect, Sem**	**Geomon Cherian**
Module 4	**Integration of Differential forms**	**Lect, Assign**	**Geomon Cherian**
Other activities			

Name of the class: II M.Sc. Mathematics

Semester:III

	MT03C13 Differential Geometry		
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Graphs, level set, vectoe fields**	**Lect, Assign, Quiz**	**Jyothy Thomas**
Module 2	**The Gauss map, geodesic**	**Lect, Assign, Semi**	**Jyothy Thomas**
Module 3	**The Weingarten map, arc length, line integral**	**Lect, Assign, Group**	**Jyothy Thomas**
Module 4	**Parametrized surfaces**	**Lect, Assign,Semi**	**Jyothy Thomas**

Other activities			

Name of the class: II M.Sc. Mathematics

Semester:III

MT03C14-Number Theory and Cryptography			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Some topics in elementary number theory**	**Lect, Assign, Quiz**	**Anju T Thomas**
Module 2	**Finite fields and quadratic residues**	**Lect, Assign**	**Anju T Thomas**
Module 3	**Public key**	**Lect, Group**	**Anju T Thomas**
Module 4	**Primality and factoring**	**Lect, Assign,Semi**	**Anju T Thomas**
Other activities			

Name of the class: II M.Sc. Mathematics

Semester:III

MT03C15 Optimization Techniques			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Integer Programming**	**Lect, Assign, Quiz**	**Tess Jose**
Module 2	**Sensitivity Analysis, Flow and Potential**	**Lect, Semi**	**Tess Jose**
Module 3	**Theory of Games**	**Lect, Group**	**Tess Jose**
Module 4	**Non linear Programming**	**Lect, Assign,Semi**	**Tess Jose**
Other activities			

Name of the class: II M.Sc. Mathematics

Semester:IV

MT04C16 Spectral Theory			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Convergnce**	**Lect, Assign, Quiz**	**Christy Tom Mathews**
Module 2	**Spectral Properties**	**Lect, Semi**	**Christy Tom Mathews**
Module 3	**Linear Operators**	**Lect, Group**	**Christy Tom Mathews**
Module 4	**Adjoint linear operators**	**Lect, Assign,Semi**	**Christy Tom Mathews**
Other activities			

Name of the class: II M.Sc. Mathematics

Semester:IV

MT04E01-Analytic Number Theory			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Arithmetic Functions**	**Lect, Quiz**	**Anju T Thomas**
Module 2	**Theorems on distribution of prime numbers**	**Lect,Sem**	**Anju T Thomas**
Module 3	**Congruences**	**Lect, Assign**	**Anju T Thomas**
Module 4	**Primitive roots and partitions**	**Lect, Sem**	**Anju T Thomas**
Other activities			

Name of the class: II M.Sc. Mathematics

Semester:IV

MT04E02-Combinatorics			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Permutations,combinations**	**Lect,quiz**	**Geomon Cherian**
Module 2	**The pigeonhole Principle**	**Lect, Assign**	**Geomon Cherian**

Module 3	**Principle of Inclusion and exclusion**	**Lect, Sem**	**Geomon Cherian**
Module 4	**Generating functions**	**Lect, Assign**	**Geomon Cherian**
Other activities			

Name of the class: II M.Sc. Mathematics

Semester:IV

MT04E05-Mathematical Economics			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**The theory of consumer behaviour**	**Lect, Assign, Quiz**	**Jyothy Thomas**
Module 2	**The production function**	**Lect, Assign, Semi**	**Jyothy Thomas**
Module 3	**Input-output analysis**	**Lect, Assign, Group**	**Jyothy Thomas**
Module 4	**Difference equations**	**Lect, Assign,Semi**	**Jyothy Thomas**
Other activities			

Name of the class: II M.Sc. Mathematics

Semester:IV

MT04E07-Operations Research			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Inventory models**	**Lect, Assign, Quiz**	**Tess Jose**
Module 2	**Queueing systems**	**Lect, Assign, Semi**	**Tess Jose**
Module 3	**Dynamic Programming**	**Lect, Assign, Group**	**Tess Jose**
Module 4	**Network Sequencing**	**Lect, Assign,Semi**	**Tess Jose**
Other activities			

Name of the class:I B.Sc. Physics/Chemistry

Semester:I

MM1CMT01- Partial Differentation, Matrices, Trigonometry and Numerical Me			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Partial Differentiation**	**Lect,Sem,Assign,**	**Lian Mathew**
Module 2	**Matrices**	**Lect,Assign**	**Lian Mathew**
Module 3	**Trigonomtery**	**Lect, Quiz**	**Lian Mathew**
Module 4	**Numerical Methods**	**Lect,Sem,Assign,**	**Anju C Augustine**
Other activities			

Name of the class:I B.Sc. Physics/Chemistry

Semester:II

MM1CMT01-Integral Calculus and Differential Equations			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in – charge**
Module 1	**Integral Calculus**	**Lect,Sem,Assign**	**Anju C Augustine**
Module 2	**Multiple Integral**	**Lect,Sem,Assign**	**Anju C Augustine**
Module 3	**Ordinary Differential Equations**	**Lect,Sem,Assign**	**Christy Tom Mathews**
Module 4	**Partial Differential Equations**	**Lect,Sem,Assign,quiz**	**Christy Tom Mathews**
Other activities			

Name of the class:II B.Sc. Physics/Chemistry

Semester:III

MM3CMT01-Vector calculus, Analytic Geometry and Abstract Algeb			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in – charge**
Module 1	**Vector valued functions**	**Lect, Assign, Quiz**	**Lian Mathew**

Module 2	**Vector Integration**	**Lect,Assign**	**Anju T Thomas**
Module 3	**Analytic Geometry**	**Lecture, Assignment**	**Jyothy Thomas**
Module 4	**Abstract Algebra**	**Lecture, Assignment, Quiz**	**Lin Mathew**
Other activities			

Name of the class:II B.Sc. Physics/Chemistry

Semester:IV

MM4CMT01: Fourier Series , Laplace Transform and Complex Analy			
Subjects	**Description of the Module/activity**	**Nature of work Lect/Sem/Assign/Group/Quiz etc**	**Teacher – in - charge**
Module 1	**Fourier Series**	**Lect,Assign**	**Tess Jose**
Module 2	**Laplace Transform**	**Lect,Assign,Quiz**	**Jyothy Thomas**
Module 3	**Complex Numbers and functions**	**Lect,Assign**	**Tess Jose**
Module 4	**Complex Integration**	**Lect,Assign**	**Tess Jose**
Other activities			

Principal
Deva Matha College
Kuravilangad - 686 633

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