VIJAYANAGARA SRI KRISHNADEVARAYA UNIVERSITY

JNANASAGARA CAMPUS, BALLARI-583105

DEPARTMENT OF STUDIES IN
Economics

SYLLUBUS

Master of Arts in Economics

(I – IV Semester)

Effective From

2021-22

VIJAYANAGARA SRI KRISHNADEVARAYA UNIVERSITY
Department of Economics
Jnana Sagara, Ballari - 583105

Distribution of Courses/Papers in Postgraduate Programme I to IV Semester as per Choice Based Credit System (CBCS) Proposed for PG Programs

II-SEMESTER

Semester	Category	Subject code	Title of the Paper	Marks			Teaching hours/week			Credit	Duration of exams (Hrs)
				IA	SEE	Total	L	T	P		
SECOND	DSC6	21ECO2C6L	Welfare Economics	30	70	100	4	-	-	4	3
	DSC7	21ECO2C7L	Monetary Macroeconomics	30	70	100	4	-	-	4	3
	DSC8	21ECO2C8L	Mathematics for Economics	30	70	100	4	-	-	4	3
	DSC9	21ECO2C9L	Research Methodology	30	70	100	4	-	-	4	3
	DSC10	21ECO2C10L	Banking and Financial Institutions	30	70	100	4	-	-	4	3
	SEC2	21ECO2S2P	Software for Data Analysis	20	30	50	-	-	4	2	1
	DSC8T1	21ECO2C2T	Mathematics for Economics	20	30	50	-	2	-	2	2
						600				24	

Welfare Economics

Sub. Code: 21ECO2C6L	L: T:P = 4+0+0=4
Credits: 04	Category: DSC6

Course Objectives:
1. To familiarize the students with the concepts of welfare economics;
2. To enhance analytical and descriptive abilities related to behaviour of economic agents

Course Outcome:

After completion of this course, the students will be able to:

CO1: Get the basic knowledge about the Pre Paretian-Welfare Economics

CO2: Analyse the fundamental theorems of welfare economics.

CO3: Describe the concepts related to General equilibrium.

CO4: Describe behaviour of economic agents and the deviations from theoretical benchmarks.

Module I	Pre Paretian-Welfare Economics	11
The Neo-Classical excess demand approach. First Fundamental Theorem and Second Fundamental Theorem of Welfare Economics Various Criteria of Welfare. Arrow's impossibility theorem.		

Module II	Paretian Welfare Economics	12
Pareto optimality- Optimum exchange conditions, The production optimum, The consumption optimum; Concept of contract curve; Top level optimum; Infinite number of non- comparable optima vs. unique social optimum; Compensation criteria- Kaldor and Hicks; The Scitovsky double criterion; Value judgments and welfare economics, Concept of Community Indifference Map, Samuelson's Utility Possibility Curve, Bergson's social welfare function, Rawls Theory of Justice.		

Module III	Theory of Distribution and Factor pricing	12
Ricardian Theory, Marxian Theory, Marginal productivity theory of distribution, Kalecki's degree of monopoly theory, Kaldor's theory of distribution. Factor pricing under perfect competition, imperfect competition.		

Module IV	General Equilibrium Theory	11
Partial and General Equilibrium; Existence, Stability and Uniqueness of Equilibrium and General Equilibrium; Walrasian Excess Demand.		

Module V	Economics of information and Behavioural Economics	11
Markets with Asymmetric Information; Quality uncertainty and market for Lemons; Moral Hazard. Framing Effects in Consumer Choice; Anchoring Effects; Bracketing; Too Much Choice; Constructed Preferences; Uncertainty; Law of Small Numbers; Asset Integration and Loss Aversion; Time Discounting; Self-control; Ultimatum Game; Fairness; Assessment of Behavioural Economics.		

Suggested Readings:
1. A.Koutsoyannis: Modern Microeconomics Chs.22 & 23 (Macmillan)
2. Baumol, W. J. (Ed.) (2001), Welfare Economics, Edward Elgar Publishing Ltd. U.K.
3. Hal Varian – Intermediate Micro Economics
4. Nicholas, B. (Ed.) (2001), Economic Theory and the Welfare state, Edward ElgarPublishing Ltd., U. K
5. Pigou, A. C. (1962), The Economics of Welfare (4th Edition) Macmillan.

6. R.S.Pindyck and D.Rubenfeld (2018): *Behavioural Economics*. Chapter 19. Micro Economics Prentice Hall of India, New Delhi. ISBN:978-1-292-21331-6.
7. Sampat Mukherjee : Analytical Micro Economics (Exchange Production and Welfare).
8. Thaler, Richard. (2015) Misbehaving: The making of behavioural Economics. WW Norton Company. Penguin Books. New Delhi. ISBN:978-0-241-95122-4.

M. A in Economics; Semester-II

Monetary Macroeconomics

Sub. Code: 21ECO2C7L	**L: T:P** = 4+0+0=4
Credits: 04	**Category:** DSC7

Course Objectives:
1. To develop understanding of the various monetary aspects and theories

2. To develop the understanding issues in monetary economics

Course outcome:

After completion of this course, the students will be able to:

CO1: gain insight in the functioning of the economy

CO2: utilise the contemporary model such as the aggregate supply and demand model etc.

CO3: understand money market and capital market in detail

CO4: understand the monetary theories

CO5: know the various indices of measuring inflation

Module I	Basics of Monetary Economics	11
Definition of Monetary Economics; Nature and scope of Monetary Economics; Significance of Monetary economics; Concept and significance of money and liquidity; Neutrality and non - neutrality of money; Money in closed and open economy; Paper currency standard and principles of Note issue; Circular flow of Money		
Module II	**Inflation and Monetary Policy**	**11**
Various theories of inflation: Monetarist view on inflation, concept of core inflation, measures of inflation (CPI, WPI, Core, Headline, GDP deflator); Monetary Targeting: Inflation targeting, Interest rate. Laffer Curve and the Inflation Tax; Welfare costs of inflation; Bank-measures of monetary control.		
Module III	**Monetary Theories**	**12**
Classical model; Flexible price economies and monetary policy; Rational expectations; representative agents and real business cycle theory; Lucas supply functions and the effects of monetary policy; Keynesian approach to monetary policy; nominal rigidities; multi-period pricing and the persistence of monetary policy shocks; Luca's critique; Keynesian Phillips curve, IS Curve; Taylor rules; financial accelerator models.		
Module IV	**Money and Capital Market**	**11**
Money Market and Capital Market Money Market: Meaning, Features and Instruments and Limitations of India's Money Market; Capital Market: Meaning, Features, Types of Market-Primary and Secondary Markets; Indian Capital Markets and its Instruments; SEBI- Working of SEBI: Sensex and Nifty		
Module V	**Issues in Monetary Economics**	**12**
Inflation bias, the central bank independence; Monetary policy rules: interest rate targeting and monetary targeting, monetary policy committee; Dynamics: Money, Inflation and Welfare Real and nominal interest rates, the optimal quantity of money, ISLM model; monetary and fiscal policy in the ISLM model and in a closed and open economy		

Suggested Readings:
1. Gupta, Suraj B. (2010): Monetary Economics: Institutions, Theory and Policy, S. Chand & Company, New Delhi.
2. Walsh, Carl E (2010): Monetary Theory and Policy, Third Edition, The MIT Press Cambridge Massachusetts
3. Sundaram, K.P. M. (2010): Money, Banking and International Trade, Sultan Chand and Sons, New Delh
4. JagdishHanda, (2009): Monetary Economics, 2nd Edition, Routledge, London
5. Nachene, Dilip and BhalchandraMungekar (2003): Indian Economy in the New Millennium, Himalaya Publication, Mumbai. Journal of Monetary Economics
6. Jhingan, M. L. (2012): Monetary Economics, Vrinda Publications (P) Ltd. Delhi

7. Sundaram, K.P. M. (2010): Money, Banking and International Trade, Sultan Chand and Sons, New Delhi.
8. Kurihara, K., Monetary Theory and Public Policy
9. Lucas R. (1981), Studies in Business Cycle Theory, MIT Press, Cambridge
10. Christiano, L.J., Eichenbaum, M., and Evans, C.L. (1999), "Monetary Policy Shocks: What Have We Learned and to What End?," in Taylor, J.B., and Woodford, M. (eds) Handbook of Macroeconomics, Amsterdam: North-Holland, 1A, 65-148

M. A in Economics; Semester-II

Mathematics for Economics

Sub. Code: 21ECO2C8L	**L: T:P** = 4+0+0=4
Credits: 04	**Category:** DSC8

Prerequisites:
Student should know high school level basic mathematics.

Course Objectives:
1. To familiarize the students with basics of mathematics relevant to economists
2. To train the students to apply the quantitative techniques to economic problems.

Course Outcome:
After completion of this course, the students will be able to:
CO1: Perform various operations on sets and matrices.
CO2: Solve simultaneous equations that are commonly encountered in Economics.

CO3: Apply optimization techniques to fundamental economic problems.

Module I	Introduction	12
Mathematical techniques in economic analysis- uses and limitations. Concept of Sets- Operations on sets- Laws on set operations- Relations and Functions- Meaning and types-Linear and non-linear-exponential, power and logarithm.		
Module II	Elementary Matrix Algebra	12
Matrix additions, subtractions, multiplications. Laws of matrix operations-Transpose		
Module III	Matrices and Determinants	14
Evaluation of third order determinants, properties of determinants- solutions to simultaneous equations - Cramer's rule- finding matrix inverse;		
Module IV	Differential Calculus	14
Calculus-limits and derivations-rules of differentiation-maxima and minima. Unconstrained and Constrained optimization.		
Module V	Integral calculus	8
Integral calculus-Indefinite integrals- Definite integrals applications to economic analysis – Consumer Surplus and Producer Surplus.		

Note: Both Theory and Numerical Problems are to be covered for Teaching and Examination for all the above modules.

Suggested Readings:

1. Chiang A.C (2005): Fundamental methods of Mathematical Economics. 4[th]edition. McGrawhill Higher Education.
2. Elhance D.N: Fundamentals of Applied Statistics. Kitab Mahal Publishers.
3. Gupta S.C (1993): Fundamentals of Applied Statistics. S Chand and Sons Publishers.
4. Muler J.D: Mathematical Analysis-Business and Economic Applications.
5. Yamane T (2007): Mathematics for Economists-An Implementer Analysis. Phi Learning Publishers

M. A in Economics; Semester-II

Research Methodology

Sub. Code: 21ECO1C4L	L: T:P = 4+0+0=4
Credits: 04	Category: DSC9

Course Objectives:
1. To familiarise students with different types research methods, approaches and designs.
2. To gain the knowledge of various stages of research modelling.
3. To understand the steps in analysis and report writing.

Course Outcome:
At the end of the course students are able to;
CO1: analyse the role of research techniques in economic research
CO2: learn different stages of research modelling
CO3: analyse the various sampling methods in research
CO4: understand the report writing steps
CO5: draw meaningful conclusions.

Module I	Introduction to Research	11

Introduction: Meaning and definition of Research, research methods and methodology, Significance of the research in social sciences.

Research Methods- Inductive method, Deductive Method and Case study Method.

Research Approaches- Qualitative and Quantitative approaches, Qualitative approaches- observation, Participatory method, Action research, ethnography focus group discussion, interview, projective, Quantitative approaches - inferential, experimental and simulation to research.

Research Design- Need, features and types of research design, Explorative, descriptive, and experimental research.

Module II	Research Modelling	11

Introduction to research modelling, importance of modelling

Research modelling: four Stages of Modelling: Specification of the model/formulation of Maintained Hypothesis, Estimation of Parameters - point estimation and interval estimation, Evaluation of Estimates-First Order and second order evaluation, Satisfactory/reliable & Forecasting validity of the model.

Module III	Sampling Design	12

Meaning, Steps in sample design, criteria of selecting sampling procedure.

Types of Sampling - Probability and Non-probability Sampling Techniques, Advantages & Disadvantages of sampling. Determination of sample size. Probability techniques- Simple Random Sampling, Systematic Sampling, Stratified Sampling, Cluster Sampling, Multi-Stage Sampling Non-Probability techniques- Judgment sampling, convenience sampling, Purposive Sampling, quota sampling and snowball sampling. Errors in sampling.

Module IV	Measurement and Data Analysis	12

Measurement and Scaling techniques: Measurement scales, Sources of error in measurement, tests of sound measurement, reliability and validity, Scaling Techniques - Likert's Scale, Semantic Differential Scale, Thurstone-equal appearing interval scale, Multi-Dimensional Scaling.

Data Analysis: Univariate, Bivariate, Trivariate, Multivariate Analysis.

Module V	Report Writing and Presentation	11

Introduction, the significance of report writing; Types of report writing, Steps of report writing, the format of Research Report, Precautions for Writing Research Reports; Rules for bibliography and references writing- Chicago style, APA style, MLA style; Steps for writing the dissertation, Method of writing an article for a national seminar/publication in a journal.

Suggested Readings:

1. Carol Ellison (2010): Guide to Writing Research Papers, McGraw-Hill publications.
2. Catherine Dawson (2002): Practical Research Methods, How to Books.
3. Kitsakorn Locharoenrat (2017): Research Methodologies for Beginners, Pan Stanford Publishinsg Pte. Ltd.
4. Kothari C.R. (2004.): Research Methodology, New Age International Publication New Delhi
5. Krishnawamy O.R. and Ranghanathan, M. (2017), Methodology of Research in Social Sciences, Himalaya Publishing House, Bangalore.
6. Peter Pruzan (2016): Research Methodology the Aims, Practices and Ethics of Science, Springer International Publishing Switzerland.

7. Prabhat Pandey and Meenu Mishra (2015): Research Methodology: Tools and Techniques, Bridge Center.

M. A in Economics; Semester-II

Banking and Financial Institutions

Sub. Code: 21ECO2C10L	**L: T:P** = 4+0+0=4
Credits: 04	**Category:** DSC10

Course Objectives:
1. To enable the students to understand the valuable overview of the main concepts of banking and financial activities
2. To understand the various modes of banking system and financial and banking reforming committees

Course Outcome:
After completion of this course, the students will be able to:

CO1: acquire fundamental understanding of banking and financial institutions

CO2: familiarize with the reforms in the banking and financial sector.

CO3: critically understand the evolving role of central banking

CO4: understand the Dynamics of Indian Banking Sector

CO5: know the new trends in banking sector

MODULE 1	**Introduction**	**10**
Financial System: Meaning, Components and Functions; Overview of Indian Financial System: Financial System and the Economy; Reforms in the Financial System and importance of finance in Economic development		

MODULE II	Banking System	12

Structure of Banking System in India, Origin of Banking system in India, Reserve Bank of India Functions & Role, Role of RBI in currency Management. Regional Rural Banks and Commercial Banks, Minimum Reserve System, Reserve Management and Liquidity Management in the post Liberalization period, Monetary Policy Committee, credit control methods of RBI

MODULE III	New Trends and Technology in Banking	15

Cashless economy – Small banks and payment banks –Mudra banks --Criteria for licensing –-Outsourcing of Non-core Services– Financial Inclusion –Bank Mergers and Acquisitions ATMs – ECS- EFT-NEFT – RTGS – SWIFT – Electronic cheques, Debit cards, credit cards, smart cards – Internet banking – advantages and disadvantages, Mobile banking, Core banking services, risks in E banking

MODULE IV	Non-Banking Financial Institutions	11

Definition of NBFI – RBI Classification of NBFIs. Non- banking Institutions-small savings, Pension Funds, Mutual Funds, Insurance Companies-Meaning & Features, Regulations of NBFI in India, Performance of NBFI in India (since 1985) – Number, Size, volume and structure of deposits

MODULE V	Reforms in Banking and Financial Sector	11

Recent reforms in financial and banking sector, various committees: Narasimham Committee-I (1991) and Narasimham Committee-II (1998) Damodaran Committee, Bimal Jalan panel, Bhandari Committee and Raghuram Rajan Committee and PMJDY

Suggested Readings:
1. Bhattacharaya, B.B., Financial Reforms and Financial Development in India, Institute of Management Technology, New Delhi
2. Bhole, L.M. (2008), Financial Institutions and Markets; Tata McGraw Hill Company Ltd., New York.
3. Reserve Bank of India, Report on Currency and Finance (Annual), Mumbai
4. Bharati Pathak (2011) The Indian Financial System, Pearson Education Publication New Delhi
5. Varshney and Malhotra , "Principles of Banking", Sultan Chand & Sons.
6. Reddy.P.N., Appannaiah.H.R.; Theory & Practice of Banking; Himalaya Publishing House.
7. Machiraju.H.R.; Modern Commercial Banking; Vikas Publishing House Pvt. Ltd.
8. Chabbra.T.N.; Banking, Theory & Practice; Dhanpat Rai & Co.
9. RBI, IBA and NABARD Journals
10. Report of the Committee on Financial Sector Reforms (Narsimham Committee I & II)
11. Various Reports of RBI and Government

Software for Data Analysis

Sub. Code: 21ECO2S2P	L: T:P = 0+0+4=4
Credits: 02	Category: SEC1

Course Objectives:

1. experiential understanding of data analysis in excel and jomovi
2. application of software's tools for drawing inferences

Course Outcome:

After completion of this course, the students will be able to:

CO1: application of statistical tools in economics

CO2: able to perform hands on operation in excel and jamovi

CO3: learn about more advanced statistical data analytics with excel and jamovi

CO4: analyse economic problems in more meaningfully

CO5: draw inferences in more effectively

Module I	Basics in Excel	18

Data Analysis: Types of Data Analysis, Process of Data Analysis;

Data Analysis with Excel: Create Worksheets and Workbooks, Format Worksheets and Workbooks, Protecting and un-protecting worksheets and cells;

Understanding Basic Formulas and Functions in Excel: SUM, MIN, MAX, SUMIF, COUNTIF, IF, COUNT, COUNTA, COUNT BLANK; Understanding SumIF and SumIFS, IF;

Conditional Formatting; Consolidate Function; Understanding Concatenate; Data Validation; Understanding Flash Fill; Lookup values: VLOOKUP, HLOOKUP; Understanding PMT; Pivot Tables.

Module II	Data Analysis with Excel	15

Descriptive Statistics in Excel: Calculation of Mean (AM, HM, GM), Median, Mode, Standard Deviation, Kurtosis and Skewness;

Charts and Tables in Excel: Histogram, Box Plot, Bar Chart, Pia Chart, Contingency Table		
Module III	**Data Analysis with Jamovi**	**16**
Introduction to Jamovi: Installing Jamovi, Loading Data in Jamovi, Installing Modules in Jamovi; Categorical Data Analysis: Chi-square goodness of fit test; Correlation and Linear Regression: Correlation, Scatter Plots, Estimating Liner Regression Model; Running ANOVA in jamovi		

Suggested Readings:

1. Danielle J Navarro and David R. Foxcroft (2018), Learning statistics with jamovi: a tutorial for psychology students and other beginners. URL: http://learnstatswithjamovi.com
2. Guerrero (2019), Excel Data Analysis - Modeling and Simulation, Springer Publication.
3. L. Winston Wayne (2019), Microsoft Excel 2019: Data Analysis & Business Model, PHI Learning Pvt. Ltd.
4. Manohar Hansa Lysander (2016), Data Analysis and Business Modelling Using Microsoft Excel, PHI Learning Pvt. Ltd.
5. Nigam Manisha (2019), Data Analysis with Excel, BPB Publications.
6. Strunk Kamden K. (2019), Design and Analysis in Educational Research Using jamovi , Taylor & Francis Ltd.

Mathematics for Economics

Sub. Code: 21ECO2C2T	L: T:P = 0+2+0=2
Credits: 02	Category: DSC8T1

Prerequisites:

Mathematics for Economics 21ECO2C8L course

Course Objectives:
1. To provide tutoring support for students taking Mathematics for Economics
2. To train the students to apply the quantitative techniques to economic problems.

Course Outcome:
After completion of this course, the students will be able to:
CO1: Perform various operations on sets and matrices.
CO2: Solve simultaneous equations that are commonly encountered in Economics.
CO3: Apply optimization techniques to fundamental economic problems.

Module I	Set Theory	05
Sets- Operations on sets- Laws on set operations- Relations and Functions		

Module II	Matrix Algebra	10
Matrix additions, subtractions, multiplications. Laws of matrix operations-Transpose Evaluation of third order determinants, properties of determinants- solutions to simultaneous equations - Cramer's rule- finding matrix inverse;		

Module III	Differential and Integral Calculus	17
Calculus-limits and derivations-rules of differentiation-maxima and minima. Unconstrained and Constrained optimization. Integral calculus-Indefinite integrals.		

Note: Numerical Problems are to be covered for Teaching and Examination for all the above modules.

Suggested Readings:

1. Chiang A.C (2005): Fundamental methods of Mathematical Economics. 4[th]edition. McGrawhill Higher Education.
2. Elhance D.N: Fundamentals of Applied Statistics. Kitab Mahal Publishers.
3. Gupta S.C (1993): Fundamentals of Applied Statistics. S Chand and Sons Publishers.
4. Muler J.D: Mathematical analysis-Business and Economic Applications.
5. Yamane T (2007): Mathematics for Economists-An Implementer Analysis. Phi Learning Publishers

CBCS Question Paper Pattern for PG Semester End Examination

Disciplines Specific Core (DSC) and Discipline Specific Elective (DSE)

Paper Code: **Paper Title:**

Time: 3 Hours   **Max. Marks: 70**

Note: Answer any *FIVE* of the following questions, each question carries equal marks.

Q1.   14 Marks

Q2.   14 Marks

Q3.   14 Marks

Q4.   14 Marks

Q5.   14 Marks

Note: Question No.1 to 5, *one question from each unit* **i.e. (Module I, Module II, ….). The Questions may be a whole or it may consists of sub questions such as a,b, c etc…**

Q6.   14 Marks

Note: Question No.6, *shall be from* **Module *II and III,* the Question may be a whole or it may consists of sub questions such as a,b, c etc…**

Q7.   14 Marks

Note: Question No.7, *shall be from* **Module *IV and V,*the Question may be a whole or it may consists of sub questions such as a,b, c etc…**

Q8.   14 Marks

Note: Question No-8 shall be from Module *II,* Module *III* , Module *IV and* Module *V*. The question shall have the following sub questions and weightage. i.e a – 05 marks, b – 05 marks, c – 04 marks.

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Skill Enhancement Courses (SECs)

Paper Code: Paper Title:

Time: 1 Hours   Max. Marks: 30

There shall be Theory examinations of Multiple Choice Based Questions [MCQs] with Question Paper set of A, B, C and D Series at the end of each semester for SECs for the duration of One hour (First Fifteen Minutes for the Preparation of OMR and remaining Forty-Five Minutes for Answering thirty Questions). The Answer Paper is of OMR (Optical Mark Reader) Sheet.

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Question Paper Pattern for Subjects with Tutorial

For the subjects with Tutorial component, there is Internal Semester-End Examination (ISEE) to the component C3 at department level. The liberty of assessment of C3 is with the concerned faculty of tutorial course. The faculty may present innovative method of evaluation of component C3 before the respective BoS for approval before the commencement of the course during the semester.

However, the BoS approves Internal Semester-End Examination of Multiple Choice Based Questions [MCQs] method for the duration of One hour (First Fifteen Minutes for the Preparation of OMR and remaining Forty-Five Minutes for Answering thirty Questions), in respective semester with 30 questions carrying one mark each in respective tutorial course. The Answer Paper is of OMR (Optical Mark Reader) Sheet.

Note: the internal semester end examination of tutorial course agenda approved as per the oral direction of the university authorities.

The outline for continuous assessment activities for Component-I (C1) and Component-II (C2) of a course shall be as under;

a. For theory courses of 04 Credits:

Sl.No.	Activities	C1 marks	C2 marks	Total IA Marks
01	Session Test	10	10	20
02	Seminars/Presentations/Activity	05	-	05
03	Case study /Assignment / Fieldwork / Project work etc.	-	05	05
	Total	**15**	**15**	**30**

Suggested Continuous Assessment Session Test (For Sl.No.01 in the above table) **(10 marks) (C1 & C2) question paper pattern:**

Internal Test C1/C2

Paper Code: **Paper Title:**

Time: 45 minutes   **Max Marks:** 10

Instructions: Answer both the sections

SECTION – A

Answer any **ONE** of the following questions, each question carries **FIVE** marks

(1x5=5)

1.

2.

SECTION – B

Answer any **TWO** of the following questions, each question carries **2.5** marks

(2x2.5=5)

3.

   a. -- (2.5)

   b. -- (2.5)

   c. -- (2.5)

      d. -- (2.5)

* *

b. For SEC of 02 Credits:

Sl.No.	Activities	C1 marks	C2 marks	Total IA Marks
01	Session Test	05	05	10
02	Seminars/Presentations/Activity	05	-	05
03	Case study /Assignment / Fieldwork / Project work etc.	-	05	05

	Total	10	10	20

Suggested Continuous Assessment Session Test (For Sl.No.01 in the above table) **(05 marks) (C1 & C2) question paper pattern:**

<div align="center">

Internal Test C1/C2

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Paper Code: **Paper Title:**

Time: 30 minutes   **Max Marks:** 5

Answer any **ONE** of the following questions, each question carries **FIVE** marks (each sub-question i.e., 'a' & 'b' carries 2.5 marks each)

(1x5=5)

1.

a. - (2.5)

b. - (2.5)

2.

a. - (2.5)

b. - (2.5)

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c. For Practical courses of 02 Credits:

Sl.No.	Activities	C1 marks	C2 marks	Total IA Marks
01	Session Test	08	08	16
02	Laboratory Record	-	04	04
	Total	08	12	20

Suggested Continuous Assessment Session Test (For Sl.No.01 in the above table) **(08 marks) (C1 & C2) question paper pattern:**

Paper Code: **Paper Title:**

Time: 45 minutes   **Max Marks:** 08

Instructions: Answer both the sections

<u>SECTION – A</u>

Answer any <u>**ONE**</u> of the following questions, each question carries <u>**FOUR**</u> marks

(1x4=4)

1.

2.

3.

<u>SECTION – B</u>
Answer any <u>**TWO**</u> of the following questions, each question carries <u>**TWO**</u> marks

(2x2=04)

4.

   a. -- - - - - - - - - - - - - - - - - -   (2)

   b. -- - - - - - - - - - - - - - - - - -   (2)

   c. -- - - - - - - - - - - - - - - - - -   (2)

   d. -- - - - - - - - - - - - - - - - - -   (2)