Kanoria PG Mahila Mahavidyalaya Jaipur

SUPPORTING DOCUMENTS FOR 1.2.1

PERCENTAGE OF PROGRAMMES IN WHICH CHOICE BASED CREDIT SYSTEM (CBCS)/ELECTIVE COURSE SYSTEM HAS BEEN IMPLEMENTED

SYLLABI OF THE PROGRAMMES

University of Rajasthan
Jaipur

SYLLABUS

B.A. Part-III

Examination - 2021

Raj Jain

Dy. Registrar
(Academic)
University of Rajasthan
JAIPUR

18. Economics

B.A. Part III –

Scheme:	Min. Pass Marks	Max. Marks
Arts	72	200
Science	54	150
Paper-I	3 hours duration	Arts 100
		Science 75
Paper- II	3 hours duration	Arts 100
		Science 75

Note:

1. There shall be two papers in each class. Each paper shall have 3 questions from every unit. In Addition to these nine questions (3 questions for each unit) there shall be one multiple choice\objective type/ short answer question in each of the two papers This question shall be compulsory.

2. The student shall be required to attempt five questions in all in each paper selecting atleast one question from each unit and one compulsory multiple choice/objective type/ short answer question

3. The multiple choice/ objective type\short answer questions shall consist of 20 questions in B.A. Examination and 15 questions in B. Sc. Examination of one mark each.

ECNOMICS

Note: There will be two papers of Economics. Each paper shall consist of three parts. Part A shall contain question No.1 consisting of very shot type –X (Ten) question. The candidate is required to answer each question in 20 words. Part –B shall contain question No 2 consisting of V (five) questions. The candidate is required to answer each question in 100 words. Part C shall contain three essay type questions (one from each section) with internal choice. A candidate will be required to attempt five questions in all. All questions of part A and part B are compulsory while rest 3 questions are to be attempted from parts C selecting one question from each section. All question carry equal marks.

Paper 1: Introduction To International Trade, Development And Public Economics

Section – A

Features of International Trade, Gains from Trade. Trade Theories: Adam Smith, Recardo, Harberler, Mill and H O Theory (Elementary treatment). Free Trade and Protaction, foreign

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Exchange Market and Exchange Rate. Balance of Trade And Finance of payment: Definition And Structure, International Monetary Fund, WTO scope and Impact.

Section –B

Economic Growth and Development: Factors affecting Economic Growth, Measures of Development , Lewis Theory of Unlimited Supply of Labor, Balanced V/S Unbalanced Growth Model, Harrod Domer and Solow Models, Concept of Poverty and Inequality. International Bank for Reconstruction and Development, Asian Development bank.

Section – C

Nature and Scope of Public Finance.Role of Government in the Economy.Public Goods and Private Goods.Theory of Maximum Social Advantage, Optimal Budgeting. Public Revenue: Canons of Taxation, Impact, Incidence and Shifting of Taxation. Direct and Indirect Taxation, GST, Public Expenditure: Canons of Public Expenditure, Classification and Effects on Production and Distribution. Public Debt: Meaning Objectives and Burden Theories. Fiscal Policy: Meaning, Objectives and Anti-Inflationary Policy.

Books Recommended :

1. R.N Musgrave and P.B Musgrave. Public Finance in Theory & Practice, McGraw Hill Publication.
2. S. Ganguly, Public Finance, The World Press Pvt. Ltd.
3. H.L. Bhatia, Public Finance, Vikas Publishing House Pvt. Ltd.
4. John Callas and Philip Jones, Public Finance and Public Choics, Oxford University Press.
5. D. salvatore: International Economics.
6. K.C RanaAnd K.N Verma: Internatinal Economics. (Hindi/English Edition)
7. B.O. Souderton & G. Reed: International Economics.
8. Michael P. Todaro, Economic decelpment, Macmillan.
9. A.P Thirlwal, Growth and Development, Macmillan.
10. Debraj Ray, Development Econmics, Oxford University Press.
11. S.k. Misraand V.K Puri, Ecomimics of Devlopement and Planning Theory Himalya Publishing House.

Paper –II (a): Application of Mathematics in Economics

Section – A

Differential Calculus and integral Calculus: Application in Economics: Matrix and Determinants: Solution of Simultaneous Equations: Mixima and Minima: Convexity and Concavity.

Theory of Consumer Behaviour Nature of a Utility function: Properties of an Indifference Curve. Maximization of Utility. Demand Functions. Ordinary and Compensated Price and

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Income Elasticity, Elasticity Relation in demand Analysis, Slusky Equation in two Commodity Case, Elasticity Form and Important Results: Income and Leisure – Derivation of Labour Supply Function and its Properties.

Section –B

Theory of firm: Production Function- Properties of a Well Behaved and Homogenous Production Functions- Cobb- Douglas and CES Production Functions: Product Curves: Output Elasticity of Factor input; Properties of an Isoquant; Elasticity of Substitution of a Homogeneous Production Function –Linearly Homogeneous and Cobb-Douglas Production Functions : Optimization Behaviour of a Firm – Constrained Cost Minimization, Constrained Output Maximization and Profit Maximization; Input Demand Functions Properties and Derivation of Producer's Input Demand functions ; Cost Functions- Properties and Derivation of Short Run and Long Run Cost functions; Consumer's and Producer's Surplus.

Section-C

Linear Programming: Graphical and Simplex Method (Maximization Problem Only): Input Output Analysis: Concepts of Static, Dynamic, Closed and Open Input – Output Models, Hawkins-Simon Conditions of Viability, Determination of Gross Output, and Value Added in Open Input –Output Model; Theory of Games: Two-person Constant Sum Games, Zero-Sum Game, Maximin and Minimax, Dominant Strategies and Saddle Point Solution; First Order Difference Equation- Cobweb Model.

Note: Use of Non-programmable Calculator is permitted

Books Recommended :

1. J.M. Henderson and R.L. Quandt: Micro Economic Theory: A Mathematical Approach, McGraw- Hill London.
2. RGD Allen. Mathematical Economics, McMillan
3. B.C. Mehta: Mathematical Economics: Micro Economic Models, Sultan Chand & Sons, New Delhi.
4. Alpha C Chiang: Fundamental Methods of Mathematical Economics. McGraw-Hill, Kagakusha. Tokyo.

· OR

Paper- II (b): Environmental Economics

Section –A

Environmental Economics: An Introduction; Review of Microeconomics and Welfare Economics; The Theory of Externalities: Pareto Optimality and Market Failure in the Presence of Externalities; Property Rights and the Coase Theorem; Sustainable Development: Concepts and Measurement.

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Section-B

Development and Environment: The Environment Kuznets Curve; Trade and Environment; Environmental Problems; Trans-boundary Environmental Problems: Global Warming and Climate Change; Methods of Environment Valuation: Hedonic Pricing, Contingent Valuation Method and Travel Cost Method.

Section-C

International Environmental Policy: Conventions and Treaties, UN Effort to Protect the Environment, Stockholm, Rio, Johansberg, Agenda 21, OECD Environmental Committee Report, Kyoto, Convention on Biodiversity, Paris Climatic Conventions; Environmental Governance in India; WTO and Environment.

Recommended Books:

1. Charles Kolstad, Intermediate Environmental Economics, Oxford University Press. 2nd Edition, 2010
2. Robert N. Stavins (ed.), Economics of the Environment: selected Readings, W.W.Norton, 5th edition, 2005.
3. Roger Perman, Yue Ma, James McGilvray and Michael Common, Natural Resource and Environmental Economics, Pearson Education/ Addison Wesley, 3rd edition, 2003.
4. Maureen L. Cropper and Wallace E. Oates, 1992, "Environmental Economics: A Survey", Journal of Economic Literature, Volume 30, pp. 675-740.
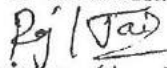
OR
Paper-II (C): Economy of Rajasthan

Section-A

Position of Rajasthan in Indian Economy: Population, Area, Agriculture, Industry and Infrastructure. Population: Size and Growth, District Wise Distribution of Rural and Urban Population, Demographic Features, Occupational Structure and Human Resource Development (Literacy, Health and Nutrition Indicators). Natural Resources Endowments: Land, Water, Livestock and Wild Life, Minerals and Mineral Policy of the State. State Domestic Product: trends and Composition. Agriculture: land Reforms, Land Utilization, Cropping Pattern, Production and Productivity, Agriculture Finance, Marketing and Insurance, Importance of Livestock and Animal Husbandry, Dairy Development Programmes, Famines and Droughts in Rajasthan.

Section-B

Infrastructure in the State (Irrigation, Power, Road), Industrial Development of the State (Agricultural and Mineral Based Industries, Small Scale and Cottage Industries, Export Based Units, Rajasthan Handicrafts). Growth Centresand Development of Industrial areas.

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Enterprises in Rajasthan. Role of Different Corporations in Industrial Development (RIICO, RFC & RAJSICO), Industrial Finance, Service Sector: Education, Health, Tourism Development in Rajasthan.

Section-C

Economic Planning and Development in Rajasthan. Constraints in The Economic Development of Rajasthan. Special Area Development Programmes in Rajasthan.Woman Empowerment and Child Development.Problems of Poverty and Unemployment in Rajasthan. PanchayatiRaj and Rural Development in Rajasthan. Budgetary Trends in Rajasthan. Centre State Financial Relations.

Books Recommended:

1. Economic Review, Directorate of Economics And Statistics, Department of Planning, Rajasthan Jaipur. (Hindi &English.)
2. Statistical Abstract Directorate Of Economics And Statistics. Department of Planning, Rajasthan Jaipur.
3. लक्ष्मीनारायण नाथूराम का राजस्थान की अर्थव्यवस्था, रमेश बुक डिपो, जयपुर।

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SYLLABUS

B.A. (Hons.) Part-III

Examination - 2021

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JAIPUR

ECONOMICS (HONS.)

B.A. (Hons.) Part –III –

Note: There will be four papers of Economics. Each paper (except paper XII C – Computer Application in economics) shall consist of three parts. Parts A shall contain question No 1 consisting of very short type X (Ten) questions. The candidate is required to answer each question in 20 words. Part B shall contain question No 2 consisting of V (five) questions. The candidate is required to answer each question in 100 words. Parts C shall contain three essay type questions (one from each section) with internal choice.

A candidate will be required to attempt five questions in all: All questions of Part A and Part B are compulsory while rest 3 questions are to be attempted from parts C selecting one question from each section. All question carry equal marks.

Practical examination of Paper XII-C for 100 marks will consist of 25 marks for record file and 75 marks for practical, where student will have to attempt three questions out of five carrying 25 marks each.

Paper (IX): Mathematical Economics

Section – A

Theory of Consumer Behavior: Nature and Concavity of a Utility Function: Properties and Convexity of an Indifference Curve, Maximization of Utility. Demand Functions-Ordinary and Compensated, Price and income Elasticity, Elasticity Relations in Demand Analysis, Engle aggregation condition and Cournot condition. Slutsky Equation in two Commodity Case, Elasticity form and Important Results; Income and Leisure – Derivation of Labour Supply Function and its Properties.

Section – B

Theory of Firm: Production Function- Properties of a Well Behaved and Homogeneous Production Functions – Cobb- Douglas and CSE Production Functions: Product Curves: Output Elasticity of Factor Input; Properties of an Isoquant: Elasticity of Substitution. Homogeneous Production Function –Linearly Homogeneous and Cobb- Douglas Production Functions: Optimization Behavior of a Firm – Constrained Cost Minimization. Constrained output Maximization and Profit Maximization; Input Demand Functions Properties and Derivation; Cost Functions Properties and Derivation of Short Run and Long Run Cost functions: Consumer's and Producer's Surplus.

Section – C

Linear Programming: Graphical and Simplex Method (Maximization Problem Only); input-output Analysis: Concepts of Static, Dynamic, Closed and Open Input- Output Models, Hawkins-Simon Conditions of Viability, Determination of Gross Output, and Value Added in Open Input-Output Modal; Theory of Games: Two-Person Constant Sum

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Games, Zero-Sum Game, Maximin and Minimax, Dominant Strategies and Saddle Point Solution: First Order Difference Equation-Cobweb Modal.

Note: Use of Non-Programmable calculator is permitted.

Books Recommended :

1. J.M. Henderson and R.L. Quandt: Micro Economic Theory : A Mathematical Approach, McGraw-Hill London.
2. RGD Allen, Mathematical Economics, McMillan
3. B.C. Mehta: Mathematical Economics: Micro Economic Modals, Sultan Chand & sons, New Delhi.
4. Alpha C Chiang: Fundamental Methods of Mathematical Economics, McGraw-Hill, Kagakusha, Tokyo

Paper – X Public Finance

Duration: 3   Max. Marks: 100

Section – A

Nature and Scope of Public Finance: Role of Government in the economy, Wagner's Law, Optimal Budgeting, Principles of Maximum Social Advantage. Public Expenditure-Cannons of Public Expenditure, Peacock Wiseman Hypothesis. Theory of social Goods-indivisibility of consumption Impossibility of exclusion and essentiality and Least Aggregate Sacrifice.

Section- B

Impact, Incidence and shifting of taxation under Monopoly and Perfect Competition. Direct versus Indirect taxes an elementary approach. Effects of taxation on Production, Growth and Distribution. Theory of Public Debt.Economic effects of Public debt, Debt Burden. Fiscal Policy: meaning, objectives and its role as compensatory and anti-inflationary policy. Concept of Balanced Budget Multiplier.

Section – C

Economic and Functional Classification on budget of Government of India.Major trends in public Expenditure, Tex Revenue and Non-Tex revenue of the Central Government, Deficit Financing Concepts of Budget Deficits.Trends in Internal and External debt of India.

Book Recommended :

1. R.A. Musgrave, Theory of Public Finance
2. R.A. Musgrave and P. Musgrave, Public Finance in Theory and Practice.
3. S. Ganguli, Public Finance.
4. H.L. Bhatia, Public Finance. (Latest Ed.)
5. D.N. Dwidi. (Ed) Reading in Indian Public Finance (Relevant Chapters).
6. Prem Prakash Sharma, Sarvajank Vittke Siddhant.

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Paper – XI: Development Economics

Duration: 3 hrs   Max. Marks: 100

Section –A

Economic Development and Economic Growth, Structural Changes, Kuznets Theory. Characteristics of developing countries. Natural Resources, Manpower, Capital, Technology, Institutions and State. Impediments development and their inter-connections Human Development.

Section – B

Modern approaches to the theories of Development and Growth: Nurkse, Rodan Lewis, Hirschman, Liebenstein, Harrod –Domar, Solow. Investment Criteria, Cost Benefit analysis, Internal Rate of Return and Net Present Value. Problems of open Economy and Globalization.

Section – C

Planning for Economic Growth, Resource Mobilization, Capital –Output Ratio. Indian Planning: Objective, Strategy for development. Public Investment and Financing under Plans. Relevance of planning in India, Evolution of NITI Aayog, National Development Agenda.

Books Recommended :

1. Meier, Gerald M. And James E. rauch (2006): Leading Issues in Economic Development, Eight Edition, Oxford Univercity Press, New York.
2. Ray, Debraj (2004): Development Economics, Seventh Impression, Oxford University Press, New Delhi.
3. Thirlwall, A.P. (2006): Growth and Development, Eighth Edition, Palgrave Macmillan, New York.
4. Todaro, Micheal P. And Stephen Smith C. (2007): Economic Development, Eighth Edition, Second Impression, Pearson Education, (Singapore) PVT. Ltd. Indian Branch, Delhi.
5. Mishra and Puri: Economic of Development and Planning, Himalaya Publishing House.

Paper – XII (a): Environmental Economics

Section – A

Environmental Economics: An Introduction; Review of Microeconomics and Welfare Economics; The Theory of Externalities; Pareto Optimality and Market Failure in the Presence of Externalities; Property Rights and the Coase Theorem: Sustainable Development: Concepts and Measurement.

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Jaipur

Section – B

Development and Environment: The environment Kuznets Curve: Trade and Environment; Environmental Problems; Trans-boundary Environmental Problems: Global Warming and Climate Change; Methods of Environment Valuation: Hedonic Pricing, Contingent Valutaion Method and Travel Cost Method.

Section – C

International Environmental Policy: Conventions and Treaties, UN Effort to Protect the Environment, Stockholm, Rio, Johannesburg, Agenda 21, OECD Environmental Committee Report, Kyoto, Convention on- Biodiversity, Paris Climatic Conventions: Environmental Governance in India; WTO and Environment.

Recommended Books :

1. Charles Kolstad, Intermediate Environmental Economics, Oxford University Press, 2nd edition, 2010.
2. Robert n. Stavins (ed.), Economics of the Enviroment: Selcted Readings, W.W. Norton, 5th edition, 2005.
3. Roger Perman, Yue Ma, James McGilvray and Michael Common, Natural Resource and Environmental Economics, Pearson Education/Addison Wesley, 3rd edition, 2003.
4. Maureen L. Cropper and Wallace E. Oates, 1992, "Environmental Economics: A Survey, Journal of Economic Literature, Volume 30, pp. 675-740.

OR

Paper XII (b): Introductory Econometrics

Section A

Econometrics: Nature, Definition, Scope, Significance and Divisions, Aim and Methodology of Econometrics Research; Statistical versus Deterministic Relationship. Measurement Scale of the Variable-Ratio, Interval, Ordinal and Nominal Scale, Types of Data: Time Series, Cross Section and Panel data.

Section B

Statistical Inference: Point and Interval Estimations: Testing of Hypothesis; Level of Significance and Power of a Test; Type I and Type II error; One- tail and Two-tail test; Relationship between Confidents Interval and Testing of Hypothesis: Population Regression Function (PRF) and Sample Regression Function (SRF).

Section C

Simple Regression Modal; Definition, Stochastic Disturbance Term, Deriving the OLS Estimators; Properties of Ordinary Least Square, Guass -Makrov Theorem, Goodness of Fit, Fitting a Trend line; Regression through Origin Statistical Inference in the Liner Regression Model, Illustration using numerical example, Result Interpretation, functional forms of Regression Models. Introduction to R Software.

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Books Recommended :

1. Koutsoyiannis: Introduction to Econometrics, Tate McGraw Hill Publication.
2. Damodar Gujrati: Basic Econometrics, Tate McGraw-Hill Publication.

OR

Paper XII (C): Computer Applications in Economics

Section A

Introduction to MS Office, MS Excel: concept of data, record and file; Types of Data and Data Structures, Data analysis; File Handling and Operations like Opening, appending and cascading, closing and attribute control; Date storage and Retrieval; Date Operations; Algorithms like sorting, Merging, Joining and bifurcation.

Section – B

Summarizing and Analyzing of Date; Descriptive Statistics, Calculation of Mean, Standard Deviation, Coefficient of Variation, Correlation and Regression analysis: Estimation of Growth Rates, Elasticity, Trend, Trend forecasting. Testing the Significance of Parameters.

Section C

Illustration with numerical examples using STATA and SPSS software.

OR

Paper- XII D – Economic Survey

1. **GST Issues:**

   State of economy: Economic Survey: Volume 2, Chapter 1 – topic 1.6 to 1.27 (pg 2 to 6) Teachers are encouraged to explain about GST and its basic framework as an introduction to this topic.

2. **Twin balance problem in India:**

   The festering of twin balance sheet problem: Economic Survey: Volume 1, Chapter 4 – topic 4.11 to 4.25 (pg 84 to 88); topic 4.43 to 4.66 (Pg 94 to 98); appendix (pg 103- 104)

3. **Prices and inflation issues in India:**

   Prices & Inflation: Economic Survey: Volume 2, chapter 4- Table 2,3 (pg 109; explain CPI and WPI along with their components through the tables); Graph (pg 108, explain the trends in CPI and WPI) ;pg 116-117 (efforts to contain inflation; topic 4.23 only)

   State of the economy: Economic Survey: Volume 2, chapter 1 – Topic: paradigm shift to low inflation (topic 1.28 to 1.43; pg 6 to11).

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4. **External trade**

   External sector: Economic survey : volume 2, Chapter 6 – India's balance of payment developments (topic 6.3 to 6.20; pg to 139 to 150); Composition of trade, Direction to Trade, Trade deficit and Balance of Payments Developments needs to be done; the student should be able to comprehend table 4 to its formation.

5. **Climate change**

   Climate change, sustainable development and energy: Economic Survey: Volume 2, chapter 5- Topic 5.1 to 5.9 (pg 118 -121); India's action on sustainable development and climate change; topic 5.28 to 5.36 (pg 128 to 132).

Reading Recommended :-

1. Economic Survey (Latest 2018-19)

2. Economic & Social Classification of Budget (for teachers only).

   http://finmin.nic.in/reports/FunClass2015-16.pdf

3. Dhillion, amrita (2011): (pg 2011) Fiscal Federalism in K Basu and A Maertens (ed) The Consice Oxford Companion to Economics in India.

4. PRS Summary of 14th Finance Commission:

   Htts://www.prsinida.org/parliamenttrack/report-summaries/fourteenth-finance-commission-reposts-4075/

5. Students can also go through the Chief Economic Advisor's (Dr. Arvind Subramanian) videos on Contemporary Themes is India's Economic Development and the Economic Survey:

   Http//www.iitd.ac.in/CEAIITD/index.html.

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7. POLITICAL SCIENCE (HONS.)

प्रश्न–पत्रों की रूपरेखा

प्रत्येक प्रश्न–पत्र 3 घण्टे की अवधि का होगा तथा प्रत्येक प्रश्न–पत्र के अधिकतम 100 अंक होंगे।

प्रत्येक प्रश्न–पत्र के तीन खण्ड होंगे। प्रथम खण्ड 20 अंको का होगा। इस खण्ड में दो अंकों के 10 अनिवार्य प्रश्न होंगे। जिनमें से प्रत्येक प्रश्न का उत्तर परीक्षार्थी को अधिकतम 20–25 शब्दों में देना होगा।

द्वितीय खण्ड 20 अंकों का होगा। इस खण्ड में 05 अंकों के 04 अनिवार्य प्रश्न होंगे, जिनमें से प्रत्येक का उत्तर 150 शब्दों में अपेक्षित होगा।

तृतीय खण्ड 60 अंकों का होगा। इस खण्ड में तीन भाग होंगे। जिनमें प्रत्येक में 20 अंको के दो निबंधात्मक प्रश्न होंगे। परीक्षार्थी से प्रत्येक खण्ड में से एक प्रश्न का उत्तर अपेक्षित होगा। प्रत्येक खण्ड से एक प्रश्न का चयन करते हुए कुल 03 प्रश्नों का उत्तर अपेक्षित होगा।
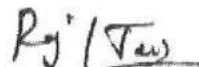
Scheme of Question Papers

Each question paper shall be of three hours duration and of 100 marks.

Each question paper shall consist of three parts. Part I shall carry 20 marks and shall consist of 10 compulsory questions of 2 marks each to be answered in 20-25 words each.

Part II shall carry 20 marks and shall consist of 4 compulsory questions of 5 marks each to be answered in 150 words each.

Part III of the question paper shall carry 60 marks. This part shall be divided into 3 sections each comprising of 2 essay-type questions of 20 marks each. Candidates will be required to attempt one question from each section (3 questions in all, one from each section)

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Paper XI (A) – International Law

Section A

Meaning, Nature, Scope, and kinds of International Law, Sources and codificati International Law-Evolution of International Law, Recognition, Beligency and insue Rights of the States, Intervention, Succession, Problems of Nationality and Citizensh

Section B

International transactions, Diplomatic immunities-acquisition and loss of ter maritime belt, continental shelf, law of the sea and seabed, International disputes, R the U.N.O., International Court of Justice and other specialised agencies.

Section C

Law of war, declaration and renunciation of war, Belligerents, combatants and Combatants, Prize courts, Laws of warfare. Time armistice & Capitulations. War c and genocide, Laws of Neutrality, Rights and duties of Neutrals, contrabands, Bloc Unneutral service and Punishment for unneutral services, Some leading cases.

Book Recommended:-

Nagendra singh : Recent Trends in the Development of International Law.
Oppenhem : International Law, Vol. I.
Fenwick : The changing Structure of International Law.
Kelsen : Principles of International Law.
Sheelkant Asopa : The Law of Nations.

अथवा

प्रश्न पत्र एकादश (ब) –वैश्विक राजनीति

खण्ड – क

वैश्विकः अवधारणाएं एवं दृष्टिकोण

राजनीतिक, सांस्कृतिक, प्रौद्योगिक आयाम, राज्य व्यवस्था एवं सम्प्रभुता का विकास।

वैश्विक अर्थव्यवस्थाः ब्रैटन वुड्स संस्थाएँ, विश्व व्यापार संगठन (WTO), परराष्ट्रीय ३ अभिकर्त्ता, बहुराष्ट्रीय निगम (MNC)
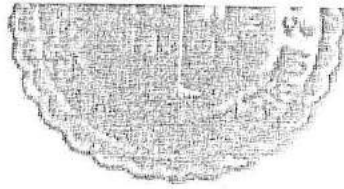
UNIVERSITY OF RAJASTHAN JAIPUR

SYLLABUS

B.Com. Part – III

Examination - 2020

①

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(Academic)
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B.Com. (Pass) Course

SCHEME OF EXAMINATION

The number of papers and the maximum for each paper together with the minimum

S. No.	Name of the Subject/Paper	Duration Hours	Max Marks	Min. Pass Marks
1	Accounting & Business Statistics			
	Paper-I Auditing & Management Accounting	3	100	36
	Paper-II Optional (Any one of the following)			
	Paper-II (1) Advanced Accountancy	3	100	36
	Paper-II (2) Advanced Cost Accounting	3	100	36
	Paper-II (3) Advanced Business Statistics	3	100	36
	Paper-II (4) Cost & Management Audit	3	100	36
	Paper-II (5) Direct Tax	3	100	36
	Paper-II (6) GOODS AND SERVICE TAX	3	100	36
	Paper-II (7) Computerized Accounting (For Regular Students only)	3	100	36
2	Business Administration			
	Paper-I Functional Management	3	100	36
	Paper-II Optional (Any one of the following)			
	Paper-II (1) Advertising & Sales Management	3	100	36
	Paper-II (2) E-Commerce	3	100	36
	Paper-II (3) Insurance	3	100	36
	Paper-II (4) Industrial Laws	3	100	36
	Paper-II (5) Organizational Behaviour	3	100	36
3.	Economics Administration & Financial Management			
	Paper-I Rural Development & Cooperation	3	100	36
	Paper-II Optional (Any one of the following)			
	Paper-II (1) Business Budgeting	3	100	36
	Paper-II (2) Public Economics	3	100	36
	Paper-II (3) International Finance	3	100	36

Additional Optional Subjects

1. Textile Craft
2. Marriage Counselling & Family Management

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③

Add-on Subjects :

1. Computer Application
2. Tax Procedure and Practice

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SYLLABUS

M.A. English

(Semester Scheme)

I & II Semester   **2020-21**

III & IV Semester   **2021-22**

M. A. English
First Semester 20⌂⌂-2⌂
Scheme of Examination

Candidates for the M. A. (First Semester) in English will study a total of 6 papers – 3 compulsory and 3 electives. Each paper will have a total of 6 credits.

I Semester 3CCC (Compulsory Course Category) - 701,702,703 and 3 Electives – ECC (Elective Course Category)

II Semester 801,802,803 and 3 Electives – ECC (Elective Course Category)

Each Semester of P G Course shall be of 36 credits, i.e. 144 credits in all the Four Semesters taken together.

15 hours comprises 1 credit. Each paper will be of 6 credits.

There will be 4 hours of Lectures = 4 credits

There will be 1 hour Tutorial   = 1 credit

There will be 1 hour of interactive B&M = 1 credits

B&M= Background and Movement

Group Discussion, Audio Visual Aids, Literary Activities, Literary Quiz

ENG 701 CCC (Compulsory Course Category) –Language & Communication Skills I

Duration: 3 hrs.   **Max. Marks: 100**

All questions are compulsory with provision for internal choice.

1. (i)   Basic Sentence Patterns
    (ii) Coordination and subordination
    (iii) Different Concepts and Notions (such as request, order, question, condition, purpose, suggestion, wishes, hope, intention, obligation, contrast, concession)

2. Transformation of Sentences
    (i) Active and Passive Voice
    (ii) Direct and Indirect Speech

3. Tenses
4. Reading & Comprehension (Prose)
5. Letter writing (Formal and Informal)

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SYLLABUS

M.A. Political Science

(Semester Scheme)

I & II Semester   2020-21
III & IV Semester   2021-22

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M.A. Political Science

I, II Sem-2020-2021
III/IV Sem-2021-2022

List of Papers

M.A. (I Semester) — 2020-21

S.No.	Paper Code	Name of Paper
1.	CCC POL 101	FUNDAMENTAL CONCEPTS OF POLITICAL SCIENCE
2.	CCC POL 102	INDIAN POLITICAL THOUGHT-ANCIENT & MEDIEVAL
3.	CCC POL 103	WESTERN POLITICAL THOUGHT-ANCIENT & MEDIEVAL
4.	ECC A01	INDIA'S FOREIGN POLICY
5.	ECC A02	THEORY AND PRACTICE OF DIPLOMACY
6.	ECC A03	INTERNATIONAL ORGANIZATION
7.	ECC A04	HISTORY OF CONSTITUTIONAL DEVELOPMENT IN INDIA
8.	ECC A05	FEDERALISM IN INDIA
9.	ECC A06	POLITICAL SOCIOLOGY

M.A. (II Semester) — 2020-21

S.No.	Paper Code	Name of Paper
1.	CCC POL 201	INDIAN POLITICAL THOUGHT-MODERN
2.	CCC POL 202	WESTERN POLITICAL THOUGHT-MODERN
3.	CCC POL 203	THEORIES OF INTERNATIONAL POLITICS
4.	ECC B01	LOCAL GOVERNMENT IN INDIA WITH SPECIAL REFRENCE TO PANCHYATI RAJ
5.	ECC B02	CHALLENGES TO NATION-STATE OF INDIA
6.	ECC B03	STATE POLITICS WITH SPECIAL REFERENCE TO RAJASTHAN
7.	ECC B04	CONTRACTUALISTS
8.	ECC B05	FOREIGN POLICY OF MAJOR POWERS
9.	ECC B06	ELECTORAL POLITICS AND REFORMS IN INDIA

M.A. (III Semester) Core Paper — 2021-22

S.No.	Paper Code	Name of Paper
1.	CCC POL 301	INDIAN CONSTITUTIONAL SYSTEM
2.	CCC POL 302	COMPARATIVE POLITICAL INSTITUTIONS
3.	CCC POL 303	INTERNATIONAL POLITICS POST 1991
4.	EEC C01	GREEK POLITICAL THOUGHT
5.	EEC C02	LIBERALS
6.	EEC C03	GANDHIAN THOUGHT
7.	EEC C04	GENDER, GOVERNANCE AND POLITICS
8.	EEC C05	HUMAN RIGHTS AND STATE
9.	EEC C06	POLITICAL THOUGHT IN EPICS
10	EEC C07	RESEARCH METHODOLOGY IN SOCIAL SCIENCE

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SYLLABUS

M.A. History

(Semester Scheme)

I & II Semester   2020-21

III & IV Semester   2021-22

M.A. HISTORY

FIRST SEMESTER

There shall be six papers, three papers as compulsory core courses (CCC) and three papers as elective core courses (ECC) in M. A. History First Semester examination . Each paper shall be of 6 Credits. Each Question Paper shall be of three hours duration and of 100 marks. Each question paper shall consist of three parts. Part I shall carry 20 marks and shall consist of 10 compulsory questions of 2 marks each to be answered in 20 words. Part II shall carry 20 marks and shall consist of 4 compulsory questions of 5 marks each to be answered in 100 words each. Part III of the question paper shall carry 60 marks. This part shall be divided into three sections, each comprising of 2 essay type questions of 20 marks each. Candidates will be required to attempt one question from each section (3 questions in all, one from each section).

S. No.	Papers	Subject Code	Course Title	Course Category	Credit
1	Paper I	HIS 701	Evolution of Indian Society and Thought, Part I	CCC	6
2	Paper II	HIS 702	World in the Twentieth Century, Part I (upto World War II)	CCC	6
3	Paper III	HIS 703	Main Trends in the History of Modern World (upto 1900 A.D.)	CCC	6
4.	Paper IV, V & VI (any three)	HIS A01	Historical Tourism in India with special reference to Rajasthan	ECC	6
5		HIS A02	Ancient Societies	ECC	6
6.		HIS A03	Women in Indian Society: Ancient and Medieval India	ECC	6
7.		HIS A04	History of Political Thought	ECC	6
8.		HIS A05	History of Religious Ideas	ECC	6
9.		HIS A06	History of Scientific Ideas	ECC	6

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SYLLABUS

M.A. Hindi

(Semester Scheme)

I & II Semester   2020-21

III & IV Semester   2021-22

A01. हिन्दी कहानी

पूर्णां

- हिन्दी कहानी का उद्भव और विकास
- निर्धारित पाठ --
  1. कफ़न – प्रेमचंद
  2. नीलम देश की राजकन्या – जैनेन्द्र कुमार
  3. हीलीबोन की बत्तखें – अज्ञेय
  4. लंदन की एक रात – निर्मल वर्मा
  5. डिप्टी कलक्टरी – अमरकांत
  6. लाल पान की बेगम – फणीश्वरनाथ रेणु
  7. खोई हुई दिशाएं – कमलेश्वर
  8. सिक्का बदल गया – कृष्णा सोबती
  9. बहिर्गमन – ज्ञानरंजन
  10. लकड़बग्घा – चित्रा मुद्गल
  11. टेपचू – उदय प्रकाश
  12. सलीब पर सांस – आलम शाह खान

अंक विभाजन –

चार व्याख्याएं (आंतरिक विकल्प देय)   (10 x 4 = 40)
एक कहानी से एक ही व्याख्या पूछी जायेगी
चार आलोचनात्मक प्रश्न (आंतरिक विकल्प देय)   (15 x 4 = 60)
कहानी, कहानीकार एवं कहानी के इतिहास से संबंधित प्रश्न पूछे जायेंगे।

अनुशंसित ग्रंथ –

1. हिन्दी कहानी का विकास – मधुरेश, लोकभारती प्रकाशन, इलाहाबाद

2. हिन्दी कहानी का इतिहास : भाग 1,2,3 – गोपाल राय, राजकमल प्रकाशन, नई दिल्ली

3. कहानी : नई कहानी – नामवर सिंह, लोकभारती प्रकाशन, इलाहाबाद

4. कहानी की रचना प्रक्रिया – परमानंद श्रीवास्तव, लोकभारती प्रकाशन, इलाहाबाद

5. हिन्दी कहानी : प्रक्रिया और पाठ – सुरेन्द्र चौधरी, राधाकृष्ण प्रकाशन, नई दिल्ली

6. कथा समय – विजयमोहन सिंह, राधाकृष्ण प्रकाशन, नई दिल्ली

7. एक दुनिया समानान्तर – सं. राजेन्द्र यादव, राधाकृष्ण प्रकाशन, नई दिल्ली

8. हिन्दी की प्रतिनिधि कहानियाँ – जयंती प्रसाद नौटियाल, किताबघर प्रकाशन, नई दिल्ली

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इलेक्टिव कोर कोर्स (वैकल्पिक प्रश्नपत्र)
HIN A01- A06 में से किन्हीं 3 का चयन करें
A02. हिन्दी नाटक एवं रंगमंच

- हिन्दी नाटक का उद्भव और विकास
- हिन्दी रंगमंच की परम्परा और प्रयोग
- निर्धारित पाठ –
  1. अंधेर नगरी – भारतेन्दु हरिश्चन्द्र
  2. स्कन्दगुप्त – जयशंकर प्रसाद
  3. आषाढ़ का एक दिन – मोहन राकेश
  4. बकरी – सर्वेश्वर दयाल सक्सेना

अंक विभाजन –

चार व्याख्याएं (आन्तरिक विकल्प देय)   (10 x 4 = 40)
चार आलोचनात्मक प्रश्न (आन्तरिक विकल्प देय)   (15 x 4 = 60)
नाटक, नाटककार एवं नाटक–रंगमंच के इतिहास से संबंधित प्रश्न पूछे जायेंगे।

अनुशंसित ग्रंथ –

1. हिन्दी नाटक : उद्भव और विकास – दशरथ ओझा, राजपाल एण्ड संस, दिल्ली
2. हिन्दी नाटक का आत्मसंघर्ष – गिरीश रस्तोगी, लोकभारती प्रकाशन, इलाहाबाद
3. नाटककार भारतेन्दु : नये संदर्भ, नये विमर्श – सं. रमेश गौतम, नई किताब, दिल्ली
4. मोहन राकेश और उनके नाटक – गिरीश रस्तोगी, लोकभारती प्रकाशन, इलाहाबाद
5. प्रसाद के नाटकों का शास्त्रीय अध्ययन – जगन्नाथ प्रसाद शर्मा, वाणी प्रकाशन, नई दि
6. जयशंकर प्रसाद : रंगसृष्टि, भाग 1, 2 – महेश आनन्द, राष्ट्रीय नाट्य विद्यालय, नई दि
7. रंगमंच के सिद्धान्त – महेश आनन्द, देवेन्द्रराज अंकुर, राजकमल प्रकाशन, नई दिल्ली
8. रंगमंच का सौन्दर्यशास्त्र – देवेन्द्रराज अंकुर, राजकमल प्रकाशन, नई दिल्ली
9. हिन्दी नाट्यशास्त्र का स्वरूप – डॉ. नर्मदेश्वर राय, हिन्दी ग्रंथ कुटीर, पटना
10. बीसवीं सदी में हिन्दी नाटक और रंगमंच – गिरीश रस्तोगी, भारतीय ज्ञानपीठ, नई दिल्

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प्रश्न पत्र एकादश (अ) – अन्तर्राष्ट्रीय विधि

खण्ड अ

अन्तर्राष्ट्रीय विधि का अर्थ, प्रकृति, क्षेत्र व प्रकार, अन्तर्राष्ट्रीय विधि के स्त्रोत व विकास, संहिताकरण, मान्यता, युद्ध स्थिति (बॉलीजरेन्सी) व विद्रोहिता (इनस्यूएजेन्सी), राज्यों के अधिकार, हस्तक्षेप, उत्तराधिकार, राष्ट्रीयता व नागरिकता की समस्याएँ।

खण्ड ब

अन्तर्राष्ट्रीय संव्यवहार, राजनयिक उन्मुक्तियाँ, राज्य प्रदेश का अर्जन व अपहरण, समुद्रीय पट्टी, समुद्रीय व समुद्र तलीय कानून, अन्तर्राष्ट्रीय विवाद, संयुक्त राष्ट्र संघ, अन्तर्राष्ट्रीय न्यायालय व अन्य विशेषीकृत संस्थाओं की भूमिका।

खण्ड स

युद्ध की विधि : युद्ध की घोषणा व समाप्ति, अयोधीय, गैर अयोधीय नीजितमाल न्यायालय (प्राइजकोर्ट्स), हवाई युद्ध की विधियाँ, समयबद्ध युद्धविराम व आत्मसमर्पण, युद्ध अपराध और जनसंहार, तटस्थता की विधियाँ, तटस्थ राज्यों के अधिकार और दायित्व, विनिषिद्ध तथा परिवेष्टन, अंतटस्थ सेवायें और अतटस्थ सेवाओं के लिए दण्ड, कतिपय प्रमुखवाद।

अनुशंसित पुस्तके :–

नगेन्द्र सिंह : रिसेन्ट ट्रेन्ड्स इन दि डवलपमेंट ऑफ इंटरनेशनल लॉ।
ऑपनहाइम : इंटरनेशनल लॉ, वाल्यूम–I
फनविर्क : दी चेंजिंग स्ट्रक्चर ऑफ इंटरनेशनल लॉ।
केल्सन : प्रिंसिपल ऑफ इंटरनेशनल लॉ।
ब्राइरली, जे.एल. : दी लॉ ऑफ नेशन्स।
टण्डन एवं टण्डन : अन्तर्राष्ट्रीय विधि।
हरीश चन्द्र शर्मा : अन्तर्राष्ट्रीय कानून।
एस.के.कपूर : अन्तर्राष्ट्रीय विधि।
शील कान्ता आसोपा : अन्तर्राष्ट्रीय विधि।

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UNIVERSITY OF RAJASTHAN
JAIPUR

SYLLABUS

M.A. Drawing & Painting

(Semester Scheme)

M.A (I & II Semester)   **2020-21**

M.A. (III & IV Semester)   **2021-22**

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Scheme of Examination

Semester I

I Semester will have six papers, three papers as compulsory core courses (CCC) and three papers as elective core Courses (ECC) in M.A. Drawing and Painting First Semester Examinations.

I Semester 3CCC (Compulsory Course Category) DRP 701, DRP 711, DRP 712

Electives – ECC (Elective Course Category) DRP A01, DRP A02, DRP A03, DRP A04, DRP A05, DRP A06 (Choose any three papers from Elective Course Category)

Semester II

II Semester will have six papers, three papers as compulsory core courses (CCC) and three papers as elective core Courses (ECC) in M.A. Drawing and Painting Second Semester Examinations.

II Semester 3CCC (Compulsory Course Category) DRP 801, DRP 811, DRP 812

Electives – ECC (Elective Course Category) DRP B01, DRP B02, DRP B03, DRP B04, DRP B05, DRP B06 (Choose any three papers from Elective Course Category) There will be a total of minimum twelve Papers in I & II Semester.

Semester III

III Semester will have six papers, three papers as compulsory core courses (CCC) and three papers as elective core Courses (ECC) in M.A. Drawing and Painting Third Semester Examination.

III Semester 3CCC (Compulsory Course Category) DRP 901, DRP 911, DRP 912

Electives – ECC (Elective Course Category) DRP C01, DRP C02, DRP C03, DRP C04, DRP C05, DRP C06 (Choose any three papers from Elective Course Category)

Semester IV

IV Semester will have six papers, three papers as compulsory core courses (CCC) and three papers as elective core Courses (ECC) in M.A. Drawing and Painting Forth Semester Examination.

IV Semester 3CCC (Compulsory Course Category) DRP X01, DRP X02, DRP X03

Electives – ECC (Elective Course Category) DRP D01, DRP D02, DRP D03, DRP D04, DRP D05, DRP D06 (Choose any three papers from Elective Course Category)

There will be a total of minimum twelve Papers in III & IV Semester.

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SYLLABUS

M.Sc. Geography

(Semester Scheme)

I & II SEMESTER   -2020-21

III & IV SEMESTER -2021-22

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M.A. / M.SC. GEOGRAPHY

First Semester

S.No.	Subject Code	Course Title	Course Category	Credit	Contact Hours Per Week			EOSE Duration (Hrs.)	
					L	T	P	THY	P
1.	Geo 101	Evolution of Geographical Thoughts (upto 1800 AD)	CCC	4	3	1	0	3	
2.	Geo 102	Structural and Dynamic basis of Geomorphology	CCC	4	3	1	0	3	
3.	Geo 103	Principles and Theory of Economic Geography	CCC	4	3	1	0	3	
4.	Geo 111	Practical	CCC	6	0	0	9	4	
5.		Elective – I	ECC	4	3	1	0	3	
	GEO A01	Man and Natural Environment							
	GEO A02	Cultural Geography							
6.		Elective – II	ECC	4	3	1	0	3	
	GEO B01	Population Geography							
	GEO B02	Quantitative Techniques in Geography							
7.		Elective – III	ECC	4	3	1	0	3	
	GEO C01	Geography of Rural Development							
	GEO C02	Geography of Soils							
8.		Elective – Practical	ECC						
	GEO D01	Practical		6	0	0	9	4	
	GEO D02	Practical		6	0	0	9	4	
		Total Credit		36					

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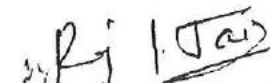
M.A. / M.SC. GEOGRAPHY
Second Semester

S.No.	Subject Code	Course Title	Course Category	Credit	Contact Hours Per Week			EOSE Duration (Hrs.)	
					L	T	P	THY	P
1.	Geo 201	Modern and Contemporary Geographical Thought (19th century onwards)	CCC	4	3	1	0	3	
2.	Geo 202	Principals of Climatology	CCC	4	3	1	0	3	
3.	Geo 203	Principles and Theory of Economic Geography	CCC	4	3	1	0	3	
4.	Geo 211	Practical	CCC	6	0	0	9	4	
5.		Elective – I	ECC	4	3	1	0	3	
	GEO A01	Geography of Rural Settlements							
	GEO A02	Plant Geography with Special Reference to Tropics							
6.		Elective – II	ECC	4	3	1	0	3	
	GEO B01	Geography of Tourism and Recreation							
	GEO B02	Geographical Perspectives on Sustainable Development							
7.		Elective – III	ECC	4	3	1	0	3	
	GEO C01	Geography of Tribes with Special Reference to Rajasthan							
	GEO C02	Geography of Crime							
8.		Elective – Practical	ECC						
	GEO D01	Practical		6	0	0	9	4	
	GEO D02	Practical		6	0	0	9	4	
		Total Credit		36					

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M.A. / M.SC. GEOGRAPHY
III Semester

S.No.	Subject Code	Course Title	Course Category	Credit	Contact Hours Per Week			EOSE Duration (Hrs.)	
					L	T	P	THY	P
1.	Geo 301	Advanced Geography of India	CCC	4	3	1	0	3	
2.	Geo 302	Fundamentals of Natural Hazards and Disaster Management	CCC	4	3	1	0	3	
3.	Geo 303	Urban Geography	CCC	4	3	1	0	3	
4.	Geo 311	Practical	CCC	6	0	0	9	4	
5.		Elective – I	ECC	4	3	1	0	3	
	GEO A01	Research Methodology							
	GEO A02	Political Geography							
6.		Elective – II	ECC	4	3	1	0	3	
	GEO B01	Advanced Geomorphology							
	GEO B02	Contemporary Issues in Human Geography							
7.		Elective – III	ECC	4	3	1	0	3	
	GEO C01	Marketing Geography							
	GEO C02	Social Geography							
8.		Elective – Practical	ECC						
	GEO D01	Project Work		6	0	0	9	4	
		Total Credit		**36**					

M.A. / M.SC. GEOGRAPHY
IV Semester

S.No.	Subject Code	Course Title	Course Category	Credit	Contact Hours Per Week			EOSE Duration (Hrs.)	
					L	T	P	THY	P
1.	Geo 401	Geography of Rajasthan	CCC	4	3	1	0	3	
2.	Geo 402	Agricultural Geography	CCC	4	3	1	0	3	
3.	Geo 403	Applied Geography	CCC	4	3	1	0	3	
4.	Geo 411	Practical	CCC	6	0	0	9	4	
5.		Elective – I	ECC	4	3	1	0	3	
	GEO A01	Bio Geography							
	GEO A02	Industrial Geography							
6.		Elective – II	ECC	4	3	1	0	3	
	GEO B01	Regional Planning and Development							
	GEO B02	Geography of Water Resources							
7.		Elective – III	ECC	4	3	1	0	3	
	GEO C01	Oceanography							
	GEO C02	Principles and Applications of Remote Sensing and Geographical Information System							
8.		Elective – Practical	ECC						
	GEO D01	Dissertation		6	0	0	9	4	
		Total Credit		36					

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UNIVERSITY OF RAJASTHAN

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SYLLABUS

M.Com.

Accountancy & Business Statistics

Semester Scheme

I/II Semester Examination   2020-21
III/IV Semester Examination   2021-22

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M.COM IN ABST (SEMESTER SCHEME)

Semester-1

Compulsory Courses

ABS 101: Business Mathematics and Statistics

ABS 102: Direct Tax

ABS 103: Advanced Cost Accounting

Optional Courses (Select any three)

ABS-A 01: Management & Operational Audit

ABS-A02: Financial Reporting

ABS- A 03: Tax/Audit & Practical

ABS-A04 : Information System & Accounting

Semester-I1

Compulsory Courses

ABS 201: Advanced Business Statistics

ABS 202: Tax Planning & Management

ABS 203: Advanced Corporate Accounting

Optional Courses (Select any three)

ABS-B01: Security Analysis

ABS-B 02: Financial Services

ABS-B 03: Operations Research Optimisation Techniques

ABS-B 04: Computerised Accounting

First Semester

S. No.	Subject Code	Course Title	Credit	Contact Hours per week	
Compulsory Papers				L	T
1	BUA 101	THEORY AND PRACTICE OF MANAGEMENT	6	4	2
2	BUA 102	MARKETING MANAGEMENT	6	4	2
3	BUA 103	HUMAN RESOURCE MANAGEMENT	6	4	2
Elective Papers (Any Three)				L	T
1	BUA 104	MANAGEMENT ACCOUNTANCY	6	4	2
2	BUA 105	INDUSTRIAL RELATIONS AND SOCIAL SECURITY	6	4	2
3	BUA 106	MODERN BUSINESS COMMUNICATION	6	4	2
4	BUA 107	ENTREPRENEURSHIP DEVELOPMENT	6	4	2

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Semester-1II

Compulsory Courses

ABS 301: Advanced Management Accounting

ABS 302: Goods and Service Tax (GST)

ABS 303: Research Methodology

Optional Courses (Select any three)

ABS-C01: Operation Research for Decision Making

ABS-C02: Financial & Commodity Derivatives

ABS- C 03: Cost Audit

ABS-C04: Portfolio Management

Semester-IV

Compulsory Courses

ABS 401: Advanced Auditing

ABS 402: Accounting for Service and Government Sector

ABS 403: Cost Management for Decision Making

Optional Courses (Select any three)

ABS-D01: Strategic Financial Management

ABS-D 02: Project Planning & Management

ABS-D 03: Accounting Standards

ABS-D 04: Dissertation

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SYLLABUS

M.Com

Economic Administration
&
Financial Management

Semester Scheme

I/II Semester Examination   2020-21
III/IV Semester Examination   2021-22

UNIVERSITY OF RAJASTHAN, JAIPUR

M.Com. EAFM Syllabus

Semester Scheme 20̶20̶-2̶1̶

2021-22

Contents:

1. Eligibility
2. Scheme of Examination
3. Semester Structure
4. Course Details

1. Eligibility:

(i) 50% and above marks in B.Com. or 55% and above marks in the subject in which admission is sought, shall be eligible for admission to M.Com. (Prev.) in EAFM. (ii) B.A./B.Sc. Degree with at least 55% marks in the aggregate or M.A. Economics degree shall be eligible for admission to M.Com. (Prev.) in (a) Economic Administration group, (b) Financial Management Group, (c) Cooperation Group.

2. Scheme of Examination:

There will be five questions in all. The candidates are required to attempt all the question. There will be one question from each unit with an internal choice (either/or).

3. Course Structure:

The details of the courses with code, title and the credits assign are as given below.
Abbreviations Used

Course Category

CCC: Compulsory Core Course

ECC: Elective Core Course

OEC: Open Elective Course

SC: Supportive Course

SSC: Self Study Core Course

SEM: Seminar

DISS - Dissertation

RP: Research Publication

Contact Hours

1 Lecture

1 Tutorial

P Practical or Other

S Self Study

EoSE End of Semester Examination

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Course of Details
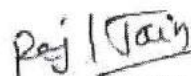
Specialization Groups

    A. EA. Economic Administration Group
    B. FM: Financial Management Group
    C. CO. Cooperation Group

All ECC Courses shall be taken from same group.

Elective Course Code	Specialization	Paper	Semester
EFM A01	EA	Public Enterprises	First
EFM A02	EA	Indian Economic Development and Policy	First
EFM A03	EA	Industrial Economics	First
EFM A04	EA	Quantitative Techniques	First
EFM A05	EA	India's Foreign Trade	Second
EFM A06	EA	Industrial Development in Rajasthan	Second
EFM A07	EA	Agricultural Economics	Second
EFM A08	EA	Operations Research	Second
EFM A09	EA	Economic Environment in India	Third
EFM A10	EA	Development Economics	Third
EFM A11	EA	Infrastructure Management	Third
EFM A12	EA	Regional Economics	Third
EFM A13	EA	International Business Environment	Fourth
EFM A14	EA	International Finance	Fourth
EFM A15	EA	Project Management	Fourth
EFM A16	EA	Economic Growth and Development	Fourth
EFM B01	FM	Business Budgeting	First
EFM B02	FM	Corporate Finance	First

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First Semester

S. No.	Subject Code	Course Title	Course Category	Credit	Contact Hours Per week			EoSE Duration (Hrs.)	
					L	T	P	Thy	P
1.	EFM 101	Micro Economics Analysis	CCC	6	4	2	0	3	0
2.	EFM 102	Financial Management	CCC	6	4	2	0	3	0
3.	EFM 103	Rural Economics	CCC	6	4	2	0	3	0
4.		Elective-1	ECC	6	4	2	0	3	0
5.		Elective-2	ECC	6	4	2	0	3	0
6.		Elective-3	ECC	6	4	2	0	3	0
				36					

CCC(18), ECC(18)

Second Semester

S. No.	Subject Code	Course Title	Course Category	Credit	Contact Hours Per week			EoSE Duration (Hrs.)	
					L	T	P	Thy	P
1.	EFM 201	Macro Economic Analysis	CCC	6	4	2	0	3	0
2	EFM 202	Financial Analysis and Control	CCC	6	4	2	0	3	0
3.	EFM 203	Rural Marketing	CCC	6	4	2	0	3	0
4		Elective-1	ECC	6	4	2	0	3	0
5		Elective-2	ECC	6	4	2	0	3	0
6		Elective-3	ECC	6	4	2	0	3	0
				36					

CCC(18), ECC(18)

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Third Semester

S. No	Subject Code	Course Title	Course Category	Credit	Contact Hours Per week			EoSE Duration (Hrs.)	
					L	T	P	Thy	P
1.	EFM 301	Economic Administration and Policy	CCC	6	4	2	0	3	0
2.	EFM 302	Public Finance	CCC	6	4	2	0	3	0
3.	EFM 303	Research Methodology	CCC	6	4	2	0	3	0
4		Elective-1	ECC	6	4	2	0	3	0
5.		Elective-2	ECC	6	4	2	0	3	0
6.		Elective-3	ECC	6	4	2	0	3	0
				36					

CCC(18), ECC(18)

Fourth Semester

S. No	Subject Code	Course Title	Course Category	Credit	Contact Hours Per week			EoSE Duration (Hrs.)	
					L	T	P	Thy	P
1	EFM 401	Indian Banking System	CCC	6	4	2	0	3	0
2	EFM 402	Economy of Rajasthan	CCC	6	4	2	0	3	0
3	EFM 403	Dissertation and Viva-Voce	DISS	6	4	2	-	-	-
4		Elective-1	ECC	6	4	2	0	3	0
5		Elective-2	ECC	6	4	2	0	3	0
6		Elective-3	ECC	6	4	2	0	3	0
				36					

CCC(18), ECC(18)

CCC: Core Course Groups, ECC: Self Study Elective Core Courses

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UNIVERSITY OF RAJASTHAN

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SYLLABUS

M.Com. in Business Administration

Semester Scheme

I/II Semester Examination   2020-21
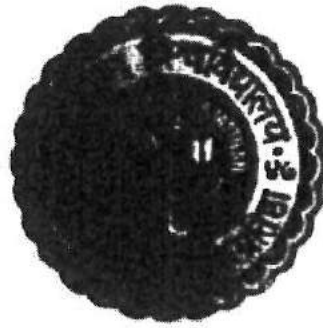**III/IV Semester Examination   2021-22**

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First Semester

S. No.	Subject Code	Course Title	Credit	Contact Hours per week	
				L	T
Compulsory Papers				L	T
1	BUA 101	THEORY AND PRACTICE OF MANAGEMENT	6	4	2
2	BUA 102	MARKETING MANAGEMENT	6	4	2
3	BUA 103	HUMAN RESOURCE MANAGEMENT	6	4	2
Elective Papers (Any Three)				L	T
1	BUA 104	MANAGEMENT ACCOUNTANCY	6	4	2
2	BUA 105	INDUSTRIAL RELATIONS AND SOCIAL SECURITY	6	4	2
3	BUA 106	MODERN BUSINESS COMMUNICATION	6	4	2
4	BUA 107	ENTREPRENEURSHIP DEVELOPMENT	6	4	2

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Jaipur

SYLLABUS

M.Sc. (CHEMISTRY)

(Semester Scheme)

I & II Semester Examination-2020-21
III & IV Semester Examination-2021-22

M.Sc. CHEMISTRY
Syllabus

Credit-based Semester System with continuous assessment.

To acquire a Master degree in Chemistry, a candidate is required to earn minimum of 120 credits with grade E or higher.

Credit registration at least once in all Compulsory Credit Course (CCC) and earning all credits for accumulation of the prescribed minimum credit with grade E or higher grade in all CCC will be binding.

SCHEME OF EXAMINATION:

- Each Semester shall have continuous assessment which shall include internal assessment in theory and practical by internal examination/seminar/oral examination/viva-voce etc, besides assessment of candidate's regularity and performances in the class.

- A candidate has to pass in the continuous assessment as well as EoSE (End of Semester Examination) paper separately.

- Each EoSE of theory paper shall carry 100 marks and will be of 3 hours duration. Candidate has to attempt five (05) questions in all. All questions carrying equal marks.

- Part 'A' of the theory paper shall contain 10 Short Answer Questions of total 20 marks, based on knowledge, understanding and applications of the topics/texts covered in the whole syllabus. Each question will carry two (02) marks for correct answer.

- Part 'B' of the theory paper will have total four questions of 20 marks each, framed by taking one question from each unit with internal choice. The limit of answer will be five pages.

- Each Laboratory EoSE will be of six hours durations and involve laboratory experiments/exercises, record and viva-voce examination with weightage in ratio of 75:25.

- The Practical examination will be conducted by board of examiners consisting of one internal (to be appointed by the Head of Department) and one external examiner (to be appointed by the University).

- The medium of instruction and examination shall be English only.

COURSE STRUCTURE
The Credit Courses of the programme have been classified as below:

- CCC: Compulsory Core Course
- ECC: Elective Core Course
- SSC: Self Study Course
- PRJ: Project Work

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A: Integrated / Allied Chemistry
B: Inorganic Chemistry group
C: Physical Chemistry group
D: Organic Chemistry group
E: Pharmaceutical Chemistry group

S. No.	Course Code	Elective Paper Title	Prerequisite	Semester
1.	CHE A01	Spectroscopy – I		I
2.	CHE A02	Analytical Techniques		I
3.	CHE A03	Green and Sustainable Chemistry		I
4.	CHE A04	Spectroscopy – II		II
5.	CHE A05	Environmental Chemistry		II
6.	CHE B01	Bioinorganic Chemistry	·	III
7.	CHE B02	Supramolecular Chemistry	·	III
8.	CHE B03	Inorganic Polymers	·	III
9.	CHE B04	Advanced Bioinorganic Chemistry	CHE B01	IV
10.	CHE B05	Materials and Industrial Chemistry	·	IV
11.	CHE B06	Photoinorganic Chemistry	·	IV
12.	CHE C01	Advanced Electrochemistry – I	·	III
13.	CHE C02	Advanced Chemical Kinetics – I	·	III
14.	CHE C03	Chemical Analysis	·	III
15.	CHE C04	Advanced Chemical Kinetics – II	CHE C02	IV
16.	CHE C05	Advanced Electrochemistry – II	CHE C01	IV
17.	CHE C06	Advanced Nanoscience and Nanotechnology	·	IV
18.	CHE D01	Biomolecules – I	·	II
19.	CHE D02	Heterocyclic Chemistry – I	·	III
20.	CHE D03	Natural Product – I	·	III
21.	CHE D04	Medicinal Chemistry – I	·	III
22.	CHE D05	Heterocyclic Chemistry – II	CHE D02	IV
23.	CHE D06	Natural Product – II	CHE D03	IV
24.	CHE D07	Medicinal Chemistry – II	CHE D04	IV
25.	CHE E01	Pharmaceutical Chemistry –I		III
26.	CHE E02	Biomolecules II	CHE D01	III
27.	CHE E03	Pharmaceutical Chemistry –II	CHE E01	IV
28.	CHE E04	Advanced Pharmaceutical Chemistry	·	IV
29.	CHE A11	Elective laboratory – 1		I
30.	CHE A12	Elective laboratory – 2	·	II
31.	CHE B11	Elective laboratory – 3	·	III
32.	CHE C11	Elective laboratory – 3	·	III
33.	CHE D11	Elective laboratory – 3	·	III
34.	CHE E11	Elective laboratory – 3	·	III
35.	CHE A21	Project Work – PRJ	·	IV

- Department will inform the students about the minimum/maximum number of Elective courses offered to students the beginning of each semester based on the courses opted by students and availability of faculty.
- In semesters III and IV, Theory elective papers 1-3 to be opted out of one of four elective groups offered (B,C,D, Pharma group students may opt D04 and D07 as third elective in III and IV semester, respectively. Elective Laborat – 3 will be according to the opted Elective Theory group.

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A

FIRST SEMESTER

S. No	Subject Code	Course Title	Course Category	Credit	Contact Hours/week			EoSE (hrs)	
					L	T	P	Th	P
1.	CHE 701	Advanced Inorganic Chemistry-I	CCC	4	4	0	0	3	0
2.	CHE 702	Organic Reaction Mechanism	CCC	4	4	0	0	3	0
3.	CHE 703	Quantum, Surface and Electrochemistry	CCC	4	4	0	0	3	0
4.	CHE 711	Chemistry Core Laboratory-1	CCC	6	0	0	9	0	6
5.	CHE A01	Spectroscopy – I	ECC	4	4	0	0	3	0
6.	CHE A02	Analytical Techniques	ECC	4	4	0	0	3	0
7.	CHE A03	Green and Sustainable Chemistry	ECC	4	4	0	0	3	0
8.	CHE A11	Elective Laboratory-1	ECC	6	0	0	9	0	6

SECOND SEMESTER

S. No	Subject Code	Course Title	Course Category	Credit	Contact Hours/week			EoSE (hrs)	
					L	T	P	Th	P
1.	CHE 801	Advanced Inorganic Chemistry – II	CCC	4	4	0	0	3	0
2.	CHE 802	Stereochemistry and Organic Reaction Mechanism - II	CCC	4	4	0	0	3	0
3.	CHE 803	Thermodynamics and Chemical Kinetics	CCC	4	4	0	0	3	0
4.	CHE 811	Chemistry Core Laboratory-2	CCC	6	0	0	9	0	6
5.	CHE A04	Spectroscopy – II	ECC	4	4	0	0	3	0
6.	CHE A05	Environmental Chemistry	ECC	4	4	0	0	3	0
7.	CHE D01	Biomolecules – I	ECC	4	4	0	0	3	0
8.	CHE A12	Elective Laboratory – 2	ECC	6	0	0	9	0	6

THIRD SEMESTER

S. No	Subject Code	Course Title	Course Category	Credit	Contact Hours/week			EoSE (hrs)	
					L	T	P	Th	P
1.	CHE 901	Organotransition Metal Chemistry	CCC	4	4	0	0	3	0
2.	CHE 902	Organic Synthesis – I	CCC	4	4	0	0	3	0
3.	CHE 903	Bio-Physical Chemistry	CCC	4	4	0	0	3	0
4.	CHE 911	Core Laboratory – 3	CCC	6	0	0	9	0	6
5.		Theory Elective – 1	ECC	4	4	0	0	3	0
6.		Theory Elective – 2	ECC	4	4	0	0	3	0
7.		Theory Elective – 3	ECC	4	4	0	0	3	0
8.		Elective Laboratory-3	ECC	6	0	0	9	0	6

FOURTH SEMESTER

S. No	Subject Code	Course Title	Course Category	Credit	Contact Hours/week			EoSE (hrs)	
					L	T	P	Th	P
1.	CHE X01	Solid States and Nanomaterials	CCC	4	4	0	0	3	0
2.	CHE X02	Organic Synthesis – II	CCC	4	4	0	0	3	0
3.	CHE X03	Advanced Physical Chemistry	CCC	4	4	0	0	3	0
4.		Theory Elective – 1	ECC	4	4	0	0	3	0
5.		Theory Elective – 2	ECC	4	4	0	0	3	0
6.		Theory Elective – 3	ECC	4	4	0	0	3	0
7.		Project Work	PRJ						

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University of Rajasthan Jaipur

SYLLABUS

M.Sc. (Botany)

(Semester Scheme)

I & II Semester Examination   2020-21

III & IV Semester Examination   2021-22

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University of Rajasthan
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M.Sc. BOTANY
FIRST- SEMESTER

S. No.	SUBJECT CODE	Course Title	Course Category	Credit	Contact hours per week			EoSE duration (Hrs.)	
					L	T	P	Theory	P
1.	BOT 701	Algae, Fungi and Bryophyta	CCC	4	4	0	0	3	0
2.	BOT 702	Cell Biology and Evolution	CCC	4	4	0	0	3	0
3.	BOT 703	Principles of Plant Pathology & Microbiology	CCC	4	4	0	0	3	0
4.		Theory Elective-1	ECC	4	4	0	0	3	0
5.		Theory Elective-2	ECC	4	4	0	0	3	0
6.		Theory Elective-3	ECC	4	4	0	0	3	0
7.	BOT 711	General Practical Lab. (Based on BOT 701, BOT 702 & BOT 703)	CCC	6	0	0	9	0	6
8.		Elective Practical Lab-1	ECC	2	0	0	3	0	4
9.		Elective Practical Lab-2	ECC	2	0	0	3	0	4
10.		Elective Practical Lab-3	ECC	2	0	0	3	0	4

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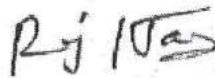
SECOND SEMESTER

S. No.	SUBJECT CODE	Course Title	Course Category	Credit	Contact hours per week			EoSE duration (Hrs.)	
					L	T	P	Theory	P
1.	BOT 801	Genetics	CCC	4	4	0	0	3	0
2.	BOT 802	Pteridophyta, Gymnosperm and Paleobotany	CCC	4	4	0	0	3	0
3.	BOT 803	Plant Morphology & Developmental Anatomy	CCC	4	4	0	0	3	0
4.		Theory Elective-1	ECC	4	4	0	0	3	0
5.		Theory Elective-2	ECC	4	4	0	0	3	0
6.		Theory Elective-3	ECC	4	4	0	0	3	0
7.	BOT 811	General Practical Lab. (Based on BOT 801, BOT 802 & BOT 803	CCC	6	0	0	9	0	6
8.		Elective Practical Lab-1	ECC	2	0	0	3	0	4
9.		Elective Practical Lab-2	ECC	2	0	0	3	0	4
10.		Elective Practical Lab-3	ECC	2	0	0	3	0	4

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THIRED SEMESTER

S. No.	SUBJECT CODE	Course Title	Course Category	Credit	Contact hours per week			EoSE duration (Hrs.)	
					L	T	P	Theory	P
1.	BOT 902	Biosystematics of Angiosperms	CCC	4	4	0	0	3	0
2.	BOT 903	Molecular Biology	CCC	4	4	0	0	3	0
3.	BOT 904	Plant Physiology and Metabolism	CCC	4	4	0	0	3	0
4.		Theory Elective-1	ECC	4	4	0	0	3	0
5.		Theory Elective-2	ECC	4	4	0	0	3	0
6.		Theory Elective-3	ECC	4	4	0	0	3	0
7.	BOT 911	General Practical Lab. (Based on BOT 902, BOT 903 & BOT 904)	CCC	6	0	0	9	0	6
8.		Elective Practical Lab-1	ECC	2	0	0	3	0	4
9.		Elective Practical Lab-2	ECC	2	0	0	3	0	4
10.		Elective Practical Lab-3	ECC	2	0	0	3	0	4

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FOURTH SEMESTER

S. No.	SUBJECT CODE	Course Title	Course Category	Credit	Contact hours per week			EoSE duration (Hrs.)	
					L	T	P	Theory	P
1.	BOT X01	Plant Reproductive Biology	CCC	4	4	0	0	3	0
2.	BOT X02	Plant Tissue Culture and Genetic Engineering	CCC	4	4	0	0	3	0
3.	BOT X03	Plant Ecology	CCC	4	4	0	0	3	0
4.		Theory Elective-1	ECC	4	4	0	0	3	0
5.		Theory Elective-2	ECC	4	4	0	0	3	0
6.		Theory Elective-3	ECC	4	4	0	0	3	0
7.	BOT X11	General Practical Lab. (Based on BOT X01, BOT X02 & BOT X03	CCC	6	0	0	9	0	6
8.		Elective Practical Lab-1	ECC	2	0	0	3	0	4
9.		Elective Practical Lab-2	ECC	2	0	0	3	0	4
10.		Elective Practical Lab-3	ECC	2	0	0	3	0	4

Note:-

1. Elective core courses lab. can be opted only if the respective Elective theory has been opted by the student. ECC lab. Examination will be based on ECC lab. work of above papers wherever applicable (2 credits each)

2. Department will offer minimum three and maximum six theory elective courses for the semester based on options submitted by the students and availability of Faculty to teach the course.

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Theory Elective Courses:-
Theory Elective Clusters:-
Specialization Clusters:-

A:PP: Plant Pathology
B:PM: Plant Morphology
C:PB: Plant Biosystematics
D:MI: Plant Microbiology
E:PPH: Plant Physiology
F:PE: Plant Ecology
G:GE: Plant Genetic Engineering
H:GEN: General

Theory Elective Courses:-

Elective Course Code	Specialization	Course Title	Prerequisite	Semester In which course will be available
BOT A01	PP	Plant Pathology- Principles and Diseases		I
BOT A02	PP	Seed Science & Technology		I
BOT A03	PP	Advanced Plant Pathology	BOT A01	II
BOT A04	PP	Seed Pathology	BOT A02	II
BOT B01	PM	Angiosperm Morphology & Morphogenesis		I
BOT B02	PM	Morphogenesis & Experimental Biology	BOT B01	II
BOT C01	PB	Advanced Biosystematics of Angiosperms		I
BOT C02	PB	Angiosperm Plant Biosystematics	BOT C01	II
BOT D01	MI	Applied Phycology and Mycology		I
BOT D02	MI	Applied Microbiology		I
BOT D03	MI	Microbial Technology	D01,D02	III

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SYLLABUS

M.Sc. (ZOOLOGY)

(Semester Scheme)

I & II SEMESTER-2020-21
III & IV SEMESTER-2021-22

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First Semester (With Laboratory Work)

S. No.	Subject Code	Course Title	Course Category	Credit
1.	ZOL C101	Biosystematics & Taxonomy	CCC	4
2.	ZOL C102	Biology of Invertebrates	CCC	4
3.	ZOL C103	Biochemistry	CCC	4
4.	ZOL 111	Lab (Based on ZOL C101, ZOL C102 and ZOL C103)	CCC	6
5.	ZOL E101	Fundamentals of Computers and Bioinformatics	ECC	4
6.	ZOL E102	Genetics	ECC	4
7.	ZOL E103	Applied Zoology	ECC	4
8.	ZOL E104	Toxicology	ECC	4
9.	ZOL E105	Biosafety & Bioethics	ECC	4
10.	ZOL E106	Parasitology	ECC	4
11.	ZOL 112	Elective Lab (Based on ZOL E101/ ZOL E102/ ZOL E103/ ZOL E104/ ZOL E105/ ZOL E106)	ECC	6

Second Semester (With Laboratory Work)

S. No.	Subject Code	Course Title	Course Category	Credit
1.	ZOL C201	Physiology	CCC	4
2.	ZOL C202	Molecular Biology	CCC	4
3.	ZOL C203	Biostatistics	CCC	4
4.	ZOL 211	Lab (Based on ZOL C201, ZOL C202 and ZOL C203)	CCC	6
5.	ZOL E201	Immunology	ECC	4
6.	ZOL E202	Wildlife: Its Management & Conservation	ECC	4
7.	ZOL E203	Applied Biology	ECC	4
8.	ZOL E204	Histology and Histopathology	ECC	4
9.	ZOL E205	Population Genetics	ECC	4
10.	ZOL 212	Elective Lab (Based on ZOL E201/ZOL E202/ZOL E203/ZOL E204/ ZOL E205)	ECC	6

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Third Semester (With Laboratory Work)

| S. No.	Subject Code	Course Title	Course Category	Credit
1.	ZOL C301	Biology of Chordates	CCC	4
2.	ZOL C302	Gene and Differentiation	CCC	4
3.	ZOL C303	Evolution	CCC	4
4.	ZOL 311	Lab (Based on ZOL C301, ZOL C302 and ZOL C303)	CCC	6
5.	ZOL 3A01 ZOL 3B01 ZOL 3C01 ZOL 3D01 ZOL 3E01	Cancer and Radiation Biology Cell and Molecular Biology Entomology Environmental Biology Reproductive Biology	ECC	4
6.	ZOL 3A02 ZOL 3B02 ZOL 3C02 ZOL 3D02 ZOL 3E02	Cancer and Radiation Biology Cell and Molecular Biology Entomology Environmental Biology Reproductive Biology	ECC	4
7.	ZOL 3A03 ZOL 3B03 ZOL 3C03 ZOL 3D03 ZOL 3E03	Cancer and Radiation Biology Cell and Molecular Biology Entomology Environmental Biology Reproductive Biology	ECC	4
8.	ZOL 312A ZOL 312B ZOL 312C ZOL 312D ZOL 312E	Elective Lab Based on: ZOL 3A01, ZOL 3A02 and ZOL 3A03 ZOL 3B01, ZOL 3B02 and ZOL 3B03 ZOL 3C01, ZOL 3C02 and ZOL 3C03 ZOL 3D01, ZOL 3D02 and ZOL 3D03 ZOL 3E01, ZOL 3E02 and ZOL 3E03	ECC	6

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Fourth Semester (With Laboratory Work)

S. No.	Subject Code	Course Title	Course Category	Credit
1.	ZOL 401	Ecology	CCC	4
2.	ZOL 402	Ethology	CCC	4
3.	ZOL 403	Tools & Techniques	CCC	4
4.	ZOL 411	Lab (Based on ZOL 401, ZOL 402 and ZOL 403)	CCC	6
5.	ZOL 4A01 ZOL 4B01 ZOL 4C01 ZOL 4D01 ZOL 4E01	Cancer and Radiation Biology Cell and Molecular Biology Entomology Environmental Biology Reproductive Biology	ECC	4
6.	ZOL 4A02 ZOL 4B02 ZOL 4C02 ZOL 4D02 ZOL 4E02	Cancer and Radiation Biology Cell and Molecular Biology Entomology Environmental Biology Reproductive Biology	ECC	4
7.	ZOL 4A03 ZOL 4B03 ZOL 4C03 ZOL 4D03 ZOL 4E03	Cancer and Radiation Biology Cell and Molecular Biology Entomology Environmental Biology Reproductive Biology	ECC	4
8.	ZOL 412A ZOL 412B ZOL 412C ZOL 412D ZOL 412E	Elective Lab Based on: ZOL 4A01, ZOL 4A02 and ZOL 4A03 ZOL 4B01, ZOL 4B02 and ZOL 4B03 ZOL 4C01, ZOL 4C02 and ZOL 4C03 ZOL 4D01, ZOL 4D02 and ZOL 4D03 ZOL 4E01, ZOL 4E02 and ZOL 4E03	ECC	6

Note- Elective practical/s will be based on the elective theory paper/s opted.

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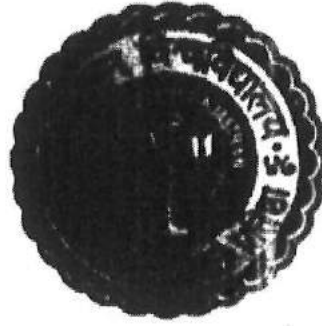
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SYLLABUS

M.A./ M.Sc. Mathematics

(Semester Scheme)

I & II SEMESTER	2020-21
III & IV SEMESTER	2021-22

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M.A./M.Sc. Syllabus in Mathematics as per new scheme: credit-based Semester System (Four Semesters in two years) with continuous assessment [30% with non-inclusion in Cumulative Grade point average (CGPA)].

To obtain a Master's Degree M.A./M.Sc. in Mathematics, a candidate is required to earn 120 credits with grade E or higher. For this each Semester will offer 36 credits. To earn credits for a paper, a candidate shall be required to obtain grade E or higher (or equivalent marks percentage) in the theory/practical examination. A candidate has to pass in the continuous assessment (internal) as well as in that paper separately. However, the grade point/marks obtained in the continuous assessment will not be included in Semester Grade Point Average (SGPA). In continuous assessment and End of Semester Examination (EoSE) separate grades will be awarded. The candidate will not be permitted to appear in EoSE of a particular credit (i) if he/she does not meet out 75% attendance requirement, or (ii) he/she fails to secure a Semester Grade Point Average (SGPA) of 1.5 in the continuous assessment.
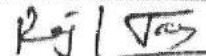
The Credit Courses have been classified as

a)   **Compulsory Core Courses (CCC)**

b)   **Elective Core Courses (ECC)**

A course is identified by a course code designated by a string of six alphanumeric characters and a course title. In a course code the first three characters of the string indicate the Department offering the course and the later three alphanumeric characters designate a particular course. In the case of compulsory core course the fourth character identifies the semester numeric digit and in case of the elective core courses the fourth character indicates the cluster of specialization. For compulsory or elective theory core courses the fifth character is '0' and for laboratory core course it is '1'.

First Semester

S.No.	Subject Code	Course Title	Course Category	Credit	Contact Hours per week	EoSE Duration (Hrs.)
1.	MAT 701	Algebra-I	CCC	6	6	3
2.	MAT 702	Real Analysis	CCC	6	6	3
3.	MAT 703	Differential Equations-I	CCC	6	6	3
4.	MAT 704	Differential Geometry	ECC	6	6	3

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University of Rajasthan
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5.	MAT 705	Dynamics of Rigid Bodies	ECC	6	6	3
6.	MAT 706	Calculus of Variation and Special Function-I	ECC	6	6	3
		Total Credits in the Semester		36		

Second Semester

S.No.	Subject Code	Course Title	Course Category	Credit	Contact Hours per week	EoSE Duration (Hrs.)
1.	MAT 801	Algebra-II	CCC	6	6	3
2.	MAT 802	Topology	CCC	6	6	3
3.	MAT 803	Differential Equations-II	CCC	6	6	3
4.	MAT 804	Riemannian Geometry and Tensor Analysis	ECC	6	6	3
5.	MAT 805	Hydrodynamics	ECC	6	6	3
6.	MAT 806	Special Functions-II	ECC	6	6	3
		Total Credits in the Semester		36		

EoSE : End of Semester Examination

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Third Semester

S.No.	Subject Code	Course Title	Course Category	Credit	Contact Hours per week	EoSE Duration (Hrs.)
1.	MAT 901	Functional Analysis-I	CCC	6	6	3
2.	MAT 902	Viscous Fluid Dynamics-I	CCC	6	6	3
3.	MAT 903	Integral Transforms	CCC	6	6	3

Candidates are required to opt any three elective core courses (6 credits each) from MAT A01, MAT B01, MAT C01, MAT D01, MAT E01. MAT F01, MAT G01, MAT H01, MAT I01.
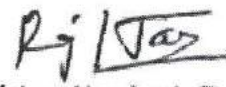
Total Credits in the Semester	36

Fourth Semester

S.No.	Subject Code	Course Title	Course Category	Credit	Contact Hours per week	EoSE Duration (Hrs.)
1.	MAT X01	Functional Analysis-II	CCC	6	6	3
2.	MAT X02	Viscous Fluid Dynamics-II	CCC	6	6	3
3.	MAT X03	Integral Equations	CCC	6	6	3

Candidates are required to opt the corresponding three elective core courses of same specialization cluster obtained in Semester Third (6 credits each) from MAT A02, MAT B02, MAT C02, MAT D02, MAT E02. MAT F02, MAT G02, MAT H02, MAT I11.
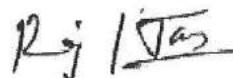
Total Credits in the Semester	36

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Specialization Clusters

A. CM   Continuum Mechanics
B. BLT Boundary Layer Theory
C. MP   Mathematical Programming
D. CGT Combinatorics and Graph Theory
E. RC   Relativity and Cosmology
F. IM   Industrial Mathematics
G. MHD Magnetohydrodynamics
H. NA   Numerical Analysis
I. CA   Computer Applications

Elective Course	Specialization	Paper	Prerequisite	Credit
MAT A01	CM	Continuum Mechanics-I	-	6
MAT A02	CM	Continuum Mechanics-II	MAT A01	6
MAT B01	BLT	Boundary Layer Theory-I	-	6
MAT B02	BLT	Boundary Layer Theory-II	MAT B01	6
MAT C01	MP	Mathematical Progamming-I	-	6
MAT C02	MP	Mathematical Programming-II	MAT C01	6
MAT D01	CGT	Combinatorics and Graph Theory-I	-	6
MAT D02	CGT	Graph Theory-II	MAT D01	6
MAT E01	RC	Relativistic Mechanics	-	6
MAT E02	RC	General Relativity and Cosmology	MAT E01	6
MAT F01	IM	Industrial Mathematics-I	-	6
MAT F02	IM	Industrial Mathematics-II	MAT F01	6
MAT G01	MHD	Magnetohydrodynamics-I	-	6
MAT G02	MHD	Magnetohydrodynamics-II	MAT G01	6
MAT H01	NA	Numerical Analysis-I	-	6
MAT H02	NA	Numerical Analysis-II	MAT H01	6
MAT I01	CA	Computer Applications-Theory	MAT I01	6
MAT I11	CA	Computer Applications-Practical	MAT I11	6

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SYLLABUS

M.Sc.PHYSICS

(Semester Scheme)

I & II Semester Examination   2020-21

III & IV Semester Examination   2021-22

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Second Semester

S. No.	Subject Code	Course Title	Course	Credit	Contact Hours Per week			EoSE Duration (Hrs.)	
					L	T	P	Thy	P
1.	PHY 802	Atomic and Molecular Physics	ECC	4	4	0	0	3	0
2.	PHY 804	Classical Electrodynamics	CCC	4	4	0	0	3	0
3.	PHY 805	Mathematical Methods of Physics	CCC	4	4	0	0	3	0
4.		Theory Elective -1	ECC	4	4	0	0	3	0
5.		Theory Elective -2	ECC	4	4	0	0	3	0
7.		Theory Elective -3	ECC	4	4	0	0	3	0
8.	PHY 811	General Physics Lab (Six Experiments)	CCC	6	0	0	9	0	6
9		Elective Laboratory Work	ECC	6	0	0	9	0	6

Departments will offer minimum three and maximum five theory elective courses for the semester based on options submitted by students and availability of Faculty to teach the course.

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Third Semester

S. No.	Subject Code	Course Title	Course Category	Credit	Contact Hours Per week			EoSE Duration (Hrs.)	
					L	T	P	Thy	P
1.	PHY 901	Advance Quantum Mechanics	CCC	4	4	0	0	3	0
2.	PHY 902	Statistical and Solid State Physics	CCC	4	4	0	0	3	0
3.	PHY 903	Nuclear Physics -1	CCC	4	4	0	0	3	0
4.		Elective -1	ECC	4	4	0	0	3	0
5.		Elective -2	ECC	4	4	0	0	3	0
7.		Elective -3	ECC	4	4	0	0	3	0
8.	PHY 911	Advance Physics Lab (Six Experiments)	CCC	6	0	0	9	0	6
9		Elective Laboratory Work/Project Wok	ECC/ PRJ	6 6	0 0	0 0	9	0	6

Departments will offer minimum three and maximum five theory elective courses for the semester based on options submitted by students and availability of Faculty to teach the course.

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Theory Elective Courses

Specialization Clusters

A. AC: Astrophysics and Cosmology

B. CMP: Condensed Matter Physics

C. HEP: High Energy Physics

D. EC: Electronic Communications

E. ES: Energy Studies

F. PP: Plasma Physics

G. ON: Advance Physics Open Electives

H. GN: GENERAL

I. TP: Thermal Physics

J. CP: Computational Physics

K. RP: Reactor Physics

L. HP: Health Physics

M. LP: Laser Physics

Elective Course Code	Specialization	Paper Title	Prerequisite	Semester in which course will be available
PHY H01	GEN	Electronics	-	I
PHY H02	GEN	Programming in C	-	I
PHY H04	GEN	Numerical methods	-	II/III/IV
PHY A01	AC	Astrophysics -I	-	I/II/III
PHY A02	AC	Astrophysics -II	*	II/III/IV
PHY A03	AC	General Theory of Relativity	.	All
PHY A04	AC	Cosmology		All

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SYLLABUS

M.A./M.Sc. (Psychology)

(Semester Scheme)

I & II Semester Examination   2021-22

III & IV Semester Examination   2022-23

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M.A./M.Sc. Psychology (Semester Scheme)

Syllabus

Course ~~M.A.~~/M.Sc. Psychology (Semester Scheme) course will be comprising of Four (4) Semesters. Each Semester of Master's course will offer 36 credits. For award of Master degree Minimum 120 Credits are required.

The Credit Courses have been classified as:

a) Compulsory Core Course (CCC)

b) Elective Core Course (ECC)

c) Seminar (SEM), Project Work (PRJ), Field Study (FST)

d) Contact Hours: Lecture (L), Tutorial (T), Practical (P), Self Study (SS)

Scheme of Examination:

a) Each Theory paper End of Semester Examination (EoSE) will carry 100 marks. The EoSE will be of 3 hours duration.

b) Part 'A' of Theory paper will contain 10 Short Answer Questions of 30 marks, based on knowledge, understanding and applications of the topics/texts covered in the syllabus. Each question will carry three (03) marks for correct answer.

c) Part 'B' of Theory paper will contain seven (07) questions. Out of which candidate has to attempt five (05) questions. Each question will carry five (05) marks for correct answer.

d) Part 'C' of paper will consist of three (03) questions with internal choice of 15 marks each. The limit of answers will be of five pages.

e) Each Laboratory EoSE will be of 100 marks and Four (4) hours duration. The EoSE will involve one (1) Major (60 marks) and one (1) Minor (40 marks). Conduction of experiment/test and Viva-voce examination with weightage in ratio of 75:25 respectively.

f) Each Seminar (SEM)/ Project Work (PRJ)/ Field Study (FST)/ Training will have Continuous Internal Assessment by the guiding teacher. Every EoSE will be of 100 marks and Four (4) hours duration. The EoSE will involve Two Course Categories of 50 marks each and will comprise of Submission and Presentation of Reports and Viva-voce examination.

g) Continuous Assessment will consist of two components, namely (i) Internal Assessment and (ii) Sessional Test(s) in ratio 20:80. The internal assessment component will comprise of assessment of students' performance on the basis of factors like Attendance, Classroom participation, Quiz, Home Assignment, etc. The sessional test shall be conducted on coverage of 50% of course content.

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M.A. / M.Sc. Semester-III

S. No.	Subject Code	Course Title	Course Category	Credits	Contact Hours/ Week	EoSE Duration (Hrs.)	
						Thy	P
1	PSY 901	Positive Psychology	CCC	4	4	3	0
2	PSY 902	Cognitive Psychology	CCC	4	4	3	0
3	PSY 903	Research Designs	CCC	4	4	3	0
4	PSY 911	General Lab	CCC	6	9	0	4
5	PSY C01	Health Psychology	ECC	4	4	3	0
6	PSY C02	Organizational Behavior	ECC	4	4	3	0
7	PSY C03	Neurodevelopmental and Neurocognitive Disorders	ECC	4	4	3	0
8	PSY 931	Project Work	ECC (PRJ)	6	0	0	4
		Total Credits		36			

M.A. / M.Sc. Semester -IV

S. No.	Subject Code	Course Title	Course Category	Credits	Contact Hours/ Week	EoSE Duration (Hrs.)	
						Thy	P
1	PSY X01	Applied Psychology	CCC	4	4	3	0
2	PSY X02	Indian Psychology	CCC	4	4	3	0
3	PSY X03	Psychological Testing	CCC	4	4	3	0
4	PSY X11	General Lab	CCC	6	9	0	4
5	PSY D01	Educational Psychology	ECC	4	4	3	0
6	PSY D02	Human Resource Management	ECC	4	4	3	0
7	PSY D03	Diagnostic and Therapeutic Techniques	ECC	4	4	3	0
8	PSY X31	Project Work	ECC (PRJ)	6	0	0	4
		Total Credits		36			

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