

# INDEX

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Key Indicator : .....1.1.....

Metric No. : .....1.1.1.....

Metric Name : The Institution ensures effective curriculum delivery through a well planned and documented process.

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**A-02**

# GOVT. COLLEGE KHERTHA DISTT – BALOD

## NAME OF SUBJECT – ENGLISH LANGUAGE

CLASS – B.Sc./ B.A./ B.com- I

SESSION-2023-24

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MONTH	CLASS	TOPIC	TOPIC	ACTIVITIES	ASSESSMENT	HOMEWORK
JULY	B.A/B.SC./ B.COM-1 <sup>ST</sup>	Unit-1 Flamingo-A textbook	Chapter-1 Baa-My Mother-A Person, A Women (Darshana Dholakia, translated by Ashok Vaishnava) Chapter-2 A Devoted Son (Anita Desai) Chapter-3 The Home Coming (Rabindranath Tagore)	Preparing Notes, Questions and answers practices	Presentation on given topic, class test, , MCQs,	Solve Sample Question from textbook
AUGUST	B.A/B.SC./ B.COM-1 <sup>ST</sup>	Unit-1 Flamingo-A textbook	Chapter-4 The Solitary Reaper (William Wordsworth) Chapter-5 Stopping by the woods on a Snowy Evening (Robert Lee Frost)	Preparing Notes, Questions and answers practices	Presentation on given topic ,class test, , MCQs,	Solve Sample Question from textbook
SEPTEMBER	B.A/B.SC./ B.COM-1 <sup>ST</sup>	Unit-2 Paragraph writing	Describing place or person	Preparing Notes Group Discussion Hindi Translation	Presentation on given topic, class test	Solve Sample Question from textbook
OCTOBER	B.A/B.SC./ B.COM-1 <sup>ST</sup>	Unit-2 Paragraph writing	writing Biographical sketch Narrating event or experience	Preparing Notes Group Discussion Hindi Translation	Class Test, MCQs, PPT	Solve Sample topics



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<b>OCTOBER</b>	<b>B.A/B.SC./ B.COM-1<sup>ST</sup></b>	<b>Unit-3 Reading comprehension</b>	<b>A-Unseen Passage</b>	solve passage for guidance Hindi Translation	practice of unseen passage	solve sample passage
<b>NOVEMBER</b>	<b>B.A/B.SC./ B.COM-1<sup>ST</sup></b>	<b>Unit-3 Reading comprehension</b>	<b>B- VOCABULARY ( Text book )</b>	Antonyms and synonyms	Class Test, MCQs	Antonyms, synonyms,
<b>DECEMBER</b>	<b>B.A/B.SC./ B.COM-1<sup>ST</sup></b>	<b>Unit-4 Letter writing</b>	<b>A-Formal letters (business letters/ application/press/official letters)</b>	solve letter from grammar Hindi Translation	Presentation on given topic ,class test	Solve Sample application
<b>JANUARY</b>	<b>B.A/B.SC./ B.COM-1<sup>ST</sup></b>	<b>Unit-5 Grammar</b>	, Article .Gerund/participles .Subject verb agreement Use of conjunction Tense Relatives Possessive Grammatical items given in text book	solve sentences related to topics	Presentation on given topic ,class test, , MCQs,	solve sample sentences from textbook
<b>FEBRUARY</b>	<b>B.A/B.SC./ B.COM-1<sup>St</sup></b>	<b>Unit-1/2/3/4/5</b>	<b>Course Revision</b>	solve sentences related to topics	Presentation on given topic ,class test, , MCQs,	Preparing Notes, Solve Sample Questions, Solve

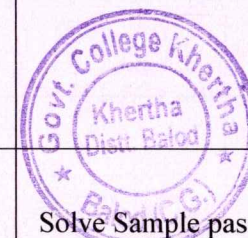
# GOVT. COLLEGE KHERTHA DISTT – BALOD

## NAME OF SUBJECT – ENGLISH LANGUAGE

### B.SC/B.COM/B.A-II

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MONTH	CLASS	TOPIC	TOPIC	ACTIVITIES	ASSESSMENT	HOMEWORK
JULY	B.A/B.SC./ B.COM-2 <sup>nd</sup>	Unit-1 Foundation English	chapter-1 Sonnet to science chapter-2 All men are scientists chapter-3 Science in ancient India chapter-4 Major Ancient Indian scientists chapter-5 J.C.Bose chapter-6 Srinivasa Ramanujam	Preparing Notes, Questions and answers practices Hindi Translation	Presentation on given topic, class test, , MCQs,	Solve Sample Question from textbook
AUGUST	B.A/B.SC./ B.COM-2 <sup>nd</sup>	Unit-1 Foundation English	<b>prose section</b> chapter-7 Communication in Modern age chapter-8 Computers chapter-9 Plastic surgery chapter-10 Fighting Disease chapter-11 Water pollution chapter-12 Hiroshima chapter-13 War	Preparing Notes, Questions and answers practice Hindi Translation	Presentation on given topic ,class test, , MCQs,	Solve Sample Question from textbook
SEPTEMBER	B.A/B.SC./ B.COM-2 <sup>nd</sup>	Unit-2 Reading comprehension	Unseen passage Vocabulary	solve passage for guidance Hindi Translation	Presentation on given topic, class test, MCQs, PPT	Solve Sample passage from previous papers Solve Sample topics

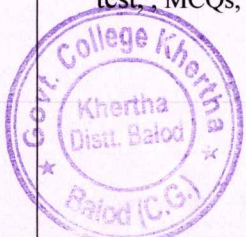


<b>OCTUBER</b>	<b>B.A/B.SC./ B.COM-2<sup>ND</sup></b>	<b>Unit-3 Report writing</b>	1.Train Accident 2.The oath taking ceremony 3.N.S.S camp in your college 4.Air Pollution 5.Water scarcity in your town	solve passage for guidance Hindi Translation	Presentation on given topic, class test, MCQs, PPT	solve sample passage
<b>NOVEMBER</b>	<b>B.A/B.SC./ B.COM-2<sup>ND</sup></b>	<b>Unit-3 Report writing</b>	B-6.Importance of English 7.Medical camp held by N.S.S 8.Annual function and prize distribution 9.Computer literacy 10.Environment pollution	solve passage for guidance Hindi Translation	Presentation on given topic, class test, MCQs, PPT	solve sample passage
<b>NOVEMBER</b>	<b>B.A/B.SC./ B.COM-2<sup>ND</sup></b>	<b>UNIT-4 Expansion of idea</b>	1.Necessity is the mother of invention 2.Rome was not built in a day 3.Honesty s the best policy 4.Knowledge is power	solve passage for guidance Hindi Translation	Preparing Notes, Solve Sample Passage	solve sample passage
<b>DECEMBER</b>	<b>B.A/B.SC./ B.COM-2<sup>ND</sup></b>	<b>UNIT-5 Grammar</b>	. Article .Use have and has form .Possessive or self form .Relatives pronoun .Degree .Tense .Gerund/participles	solve sentences related to topics	Preparing Notes, Solve Sample Questions	solve sample sentences from textbook
<b>JANUARY</b>	<b>B.A/B.SC./ B.COM-2<sup>ND</sup></b>	<b>UNIT-5 Grammar</b>	.Use of conjunction .Conditional sentences .Modal .Voice-Active and passive voice .prepositions	solve sentences related to topics	Preparing Notes, Solve Sample Questions	solve sample sentences from textbook
<b>FEBRUARY</b>	<b>B.A/B.SC./ B.COM-2<sup>ND</sup></b>	<b>UNIT-5 Grammar</b>	Grammatical items given in text book	solve sentences related to topics	Preparing Notes, Solve Sample Questions	Preparing Notes, Solve Sample Questions, Solve Previous year question paper
<b>FEBRUARY</b>	<b>B.A/B.SC./ B.COM-2<sup>ND</sup></b>	<b>UNIT-1/2/3/4/5</b>	Course Revision	solve sentences related to topics	Preparing Notes, Solve Sample Questions	solve sample sentences from textbook

# GOVT. COLLEGE KHERTHA DISTT – BALOD

## NAME OF SUBJECT – ENGLISH LANGUAGE

### B.SC/B.COM/B.A-III

MONTH	CLASS	TOPIC	TOPIC	ACTIVITIES	ASSESSMENT	HOMEWORK
JULY	B.A/B.SC./ B.COM-3 <sup>rd</sup>	Unit-1 Textual Question and Answers	chapter-1 Three year she grew chapter-2 Death of a clerk chapter-3 The judgment sheet of vikramaditya chapter-4 Rana Pratap chapter-5 Bores chapter-6 Universality of religion chapter-7 Communication Education and Information Technology	Notes, Questions and answers practices Hindi Translation	Presentation on given topic, class test, , MCQs,	Solve Sample Question from previous papers
AUGUST	B.A/B.SC./ B.COM-3 <sup>rd</sup>	Unit-1 Textual Question and Answers	chapter-8 Women and development chapter-9 Democratic Decentralization chapter-10 Basic needs and quality of life chapter-11 Globalisation and privatization chapter-12 The new economic policy chapter-13 Management of change chapter-14 Geo-economic profile of Madhya Pradesh chapter-15 The mouse and snake	Notes, Questions and answers practices Hindi Translation	Presentation on given topic ,class test, , MCQs, 	Solve Sample Question from previous papers

SEPTEMBER	B.A/B.SC./ B.COM-3 <sup>rd</sup>	Unit-2 EASSY WRITING	.The Empowerment of women .Panchayat Raj .Information technology in India .Media and society .Democratic Decentralization .Impact of privatization .Unemployment in India .Universality of religion	Preparing Notes Hindi Translation	Presentation on given topic, class test	Solve Sample passage from previous papers
OCTUBER	B.A/B.SC./ B.COM-3 <sup>rd</sup>	Unit-2 EASSY WRITING	.The new economic policy .Religion and politics .The Indian Democracy .Science: Blessing or curse .Environment pollution .Global Warming .Students and politics	Preparing Notes Hindi Translation	Class Test, PPT	Solve Sample topics
NOVEMBER	B.A/B.SC./ B.COM-3 <sup>rd</sup>	Unit3 Précis -Writing	passage	solve passage for guidance Hindi Translation	practice of précis writing	solve sample passage
DECEMBER	B.A/B.SC./ B.COM-3 <sup>rd</sup>	Unit-4 Reading Comprehension	A. Reading comprehension B. Vocabulary	solve passage for guidance Hindi Translation	Class Test, MCQs practice of passage	solve sample passage
JANUARY	B.A/B.SC./ B.COM-3 <sup>rd</sup>	UNIT-5 Grammar	.Question tag .Clause .conjunction .Use some or any .Articles .Collective nouns .preposition .Voice-Active and passive voice	solve sentences related to topics	Preparing Notes, Solve Sample Questions, Solve Previous year question paper	Preparing Notes, Solve Sample Questions, Solve Previous year question paper
FEBRUARY	B.A/B.SC./ B.COM-3 <sup>rd</sup>	UNIT-5 Grammar	Grammatical items given in text book, Course Revision	solve sentences related to topics	Preparing Notes, Solve Sample Questions, Solve Previous year question paper	Preparing Notes, Solve Sample Questions, Solve Previous year question paper

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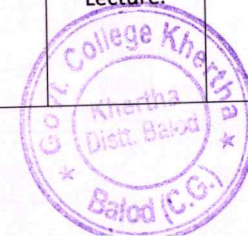
**GOVT.COLLEGE KHERTHA, DISTT.- BALOD(C.G.)**  
**DEPARTMENT OF COMMERCE**  
**TEACHING PLAN (SESSION-2023-24)**

**OBJECTIVES:-**

<b>Bus. Mathematics {B.Com. I}</b>	<b>Bus. Environment {B.Com. I}</b>	<b>Bus. Economic {B.Com. I}</b>
To enable the students to have such minimum knowledge of mathematics as is applicable to business and economic situations.	1. To acquaint students with the local and global environment of business. 2. To acquaint students with the economic, political and technological environment in business. 3. To acquire in-depth knowledge of govt. policies and legal environment of business.	The course aims to acquaint the learners with fundamental economic theories and their impact on pricing, demand, supply, production and cost concepts.
<b>Cost Accounting {B.Com. II}</b>	<b>Bus. Statistics {B.com. II}</b>	<b>Fundamental of Entrepreneurship {B.com. II}</b>
This course exposes the students to the basic concepts and the tools used in cost accounting.	It enables the students to gain understanding of statistical techniques as are applicable to business	It Provides exposure to the students to the entrepreneurial culture and industrial growth so as to preparing them to set up and manage their own small units.
<b>Indirect Taxes with GST {B.Com. III}</b>	<b>Principles of Marketing {B.com. III}</b>	<b>International Marketing {B.Com. III}</b>
This course aims at imparting basic knowledge about GST and applies the provisions of GST law to various situations.	The Objective of this course is to help students to understand the concept of marketing and its applications.	This course aims at acquainting student with the operations of marketing in international Environment.

Month	Class	Name of Course			Content of Course			Class Activities	Assess ment	Home work
		Business Mathematics { Unit-1}	Business Environment { Unit-1}	Business Economic { Unit-1}	Business Mathematics	Business Environment	Business Economic			
July	B.Com. 1 <sup>st</sup> Year	<u>Average:</u>	Business Environment	Introduction	Algebraic problems Calculation of average in case of large number of terms.	Type of Environment- internal, external, micro and macro environment.	Micro & Macro Economics Meaning, Scope, Importance and limitations, nature etc.	Preparing Notes, Power Point Presentation	Unit Test	Solve Practical Problem and question Bank
		<u>Ratio-</u>	Competitive structure of industry	Business Economics	Practical use of ratio in business and consolidation	environmental analysis and strategic management	Meaning, Definition, objective and nature & Scope Role and Responsibilities of a business Economist.			
	B.Com. 2 <sup>nd</sup> Year	Cost Account Unit {1}	Bus. Statistics Unit {1}	Fundamental of Entrepreneurship Unit {1}	Cost Account	Bus. Statistics	Fundamental of Entrepreneurship	Preparing Notes, Power Point Presentation	Unit Test	Solve Practical Problem and question Bank
		Introduction and Methods and techniques:-	Introduction	Introduction	Introduction and Installation of costing system; Concept of cost audit.	Statistics as a subject; Descriptive Statistics compared to inferential Statistics.	The entrepreneur; Definition; Emergence of entrepreneurial class.			

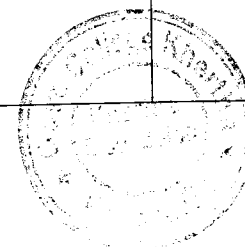
Month	Class	Name of Course			Content of Course			Class Activities	Assessment	Home work
		Cost Account Unit {1}	Business Statistics Unit {1}	Fundamental of Entrepreneurship Unit {1}	Cost Account	Business Statistics	Fundamental of Entrepreneurship			
July	B.Com. 2 <sup>nd</sup> Year	Accounting for Material:	Summation operation:	Theories of entrepreneurship:	Material Control Concept and techniques; Pricing of material issues; Treatment of material losses.	Rules of Sigma E operations.	Role of socio-economic environment; Characteristics	Preparing Notes, Power Point Presentation	Unit Test	Solve Practical Problem and question Bank
	B.Com. 3 <sup>rd</sup> Year	Indirect Taxes with GST {Unit 1}	Principle of Marketing {Unit 1}	International Marketing {Unit 1}	Indirect Taxes with GST	Principle of Marketing	International Marketing			
		Customs:	Introduction	International Marketing:	Role of customs in international trade; Important terms and definitions goods; Duty etc.	Nature and scope of marketing; Importance of marketing.	International Marketing: Nature, definition, and scope of international marketing.	Preparing Notes, Power Point Presentation	Unit Test	Solve Practical Problem and question Bank
		Importer; Prohibited goods	Marketing concepts	Domestic marketing vs. International marketing	Shipping bill; Store; Bill of lading; Export manifest; Letter of credit, Prohibition of export and import of goods.	Traditional and modern; Selling vs. Marketing; Marketing mix; Marketing environment	Domestic marketing vs. International marketing; International environment external and internal.			
August	B.Com. 1 <sup>st</sup> Year	Business Mathematics { Unit-1}	Business Environment { Unit-1}	Business Economic { Unit-1}	Business Mathematics	Business Environment	Business Economic			
		Proportion	Managing diversity:-	Market Demand Analysis: -	Problems related to Continuous Proportion, Indices Proportion, Mix ratio	Managing diversity. Scope of Business, characteristics of business. Objectives and the uses of study.	Meaning of Demand and Determinants of Demand, Change in Demand.	Preparing Notes, Group Discussion, Power Point Presentation Video Lecture.	Unit Test	Solve Practical Problem and question Bank
		Percentage-	Process and limitations	Demand Function	income expenditure, consumption, mixture, problems related to population	Process and limitations of environmental analysis.	Law of Demand Type of Demand and Exceptions of Law of Demand.			



Month	Class	Name of Course			Content of Course			Class Activities	Assessment	Home work
		Indirect Taxes with GST {Unit 2}	Principle of Marketing {Unit 3}	International Marketing {Unit 2}	Indirect Taxes with GST	Principle of Marketing	International Marketing			
September	B.Com. 3 <sup>rd</sup> Year	State Excise	Product:	International pricing:	CENVAT Detail study of State Excise during calculation of Tax.	Concept of product, consumer, and industrial goods	Factors Influencing International price;	Notes, Group Discussion, Power Point Presentation Capacity Building, Video Lecture.	Unit Test Unit Test	Solve Practical Problem and question Bank
		State Excise	Product Planning and development	Pricing process-	Practical Problem of Excise Duty	Packaging role and functions; Brand name and Trade mark; after sales service; Product life cycle concept.	Process and methods; International price quotation and payment terms.			
October	B.Com. 1 <sup>st</sup> Year	Business Mathematics { Unit-3}	Business Environment { Unit-3}	Business Economic { Unit-3}	Business Mathematics	Business Environment	Business Economic			
		Matrices-	International Environment:	Production Analysis:	Meaning and definitions, types of matrix.	Trends in World Trade & The Problems of Developing Countries, Foreign Trade & Economic Growth.	Meaning of Supply and Supply function, Concepts of Stock and Flow, Determinants of Supply, Law of Supply, Changes in Supply.	Preparing Notes Power Point Presentation Capacity Building, Video Lecture., assignment/ Project work	Unit Test	Solve Practical Problem and question Bank
		Matrices-	International Economic Groups:	Production Function:	Algebra of matrix, transposed matrix	GATT, WTO, UNCTAD, World Bank, IMF, TRIPS, TRIMS	(a) Law of Variable Proportions( b) Law of Returns to Scale, Economies and Diseconomies of Scale		Unit Test	Solve Practical Problem and question Bank
								Preparing Notes Power Point Presentation Capacity Building, Video Lecture, assignment/ Project work	Unit Test	Solve Practical Problem and question Bank
		Cost Account Unit {3}	Business Statistics Unit {3}	Fundamental of Entrepreneurship Unit {3}	Cost Account	Business Statistics	Fundamental of Entrepreneurship			
		Cost Ascertainment:	Analysis of Bivariate Data:	Entrepreneurial Behavior	Unit costing, Job, batch costing ,	Linear regression two variables and correlation.	Entrepreneurial Behavior Innovation and entrepreneur.			
	B.Com. 2 <sup>nd</sup> Year	Cost Sheet	Analysis of Bivariate Data:	Entrepreneurial Behavior	Cost sheet Practical Problems.	Linear regression two variables and correlation	Entrepreneurial behavior.	Lecture, assignment/ Project work	Unit Test	Solve Practical Problem and question Bank

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	B.Com. 2 <sup>nd</sup> Year	Cost Account Unit {3}	Business Statistics Unit {4}	Fundamental of Entrepreneurship Unit {3}	Cost Account	Business Statistics	Fundamental of Entrepreneurship			
		Cost Ascertainment:	Index Number	Psycho-Theories, Social responsibility.	Contract Costing	Meaning, types, and uses; Methods of Constructing price and quantity indices (simple and aggregate); Tests of adequacy; Chain - base index numbers; Base shifting,	Psycho-Theories, Social responsibility.	Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Subject Quiz	Terminal Exam	Solve Practical Problem and question Bank
Month	Class	Name of Course			Content of Course			Class Activities	Assessm ent	Home work
Novem ber	B.Com. 2 <sup>nd</sup> Year	Cost Account Unit {3}	Business Statistics Unit {4}	Fundamental of Entrepreneurship Unit {4}	Cost Account	Business Statistics	Fundamental of Entrepreneurship			
		Cost Ascertainment	Splicing and deflating:	Entrepreneurial Development Programs (EDP)	Contract Costing	Problems in constructing index numbers; Consumer price index.	EDP, their role, relevance, and achievements		Terminal Exam	Solve Practical Problem and question Bank
	B.Com. 3 <sup>rd</sup> Year	Indirect Taxes with GST {Unit 3}	Principle of Marketing {Unit 4}	International Marketing {Unit 3}	Indirect Taxes with GST	Principle of Marketing	International Marketing	Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Subject Quiz	Terminal Exam	Solve Practical Problem and question Bank
		GST Council:	Distributions Channels	Advertising	Structures Power and Functions. Provisions fro amendments.	Concept and role; Types of distribution channels. Factors affecting choice of a distribution channel; Retailer and wholesaler.	Personal selling; Trade fairs and exhibitions.			
		GST Council:	Physical distribution of goods	Advertising	Structures Power and Functions. Provisions fro amendments	Transportation, Warehousing, Inventory control; Order processing.	Personal selling; Trade fairs and exhibitions.			



Decem ber	B.Com. 1 <sup>st</sup> Year	Business Mathematics { Unit-4}	Business Environment { Unit-4}	Business Economic { Unit-4}	Business Mathematics	Business Environment	Business Economic			
		Logarithms and Antilogarithms-	Govt. Policies:	Discrimination Monopoly	Meaning, properties, fundamental laws and types, practical use of logarithm and antilogarithm table	Export-Import Policy, Monetary & Fiscal Policy, Privatization, Liberalization, Globalization, Demonetization, Disinvestment,	Features, Price and Output determination under discriminating Monopoly,	Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Guest Lecture	Half Yearly Exam/ Internal Exam	Solve Practical Problem and question Bank
		Simple and Compound interest-	Foreign Exchange Management Act 2000	Price and Output determination	Principal, amount, concept of real and nominal rate of interest, , practical problems related to interest, principal and amount. Calculation of interest by third, tenth and tenth rule and common multiplier method.	Foreign Exchange Management Act 2000 Industrial Policy, Industrial Licensing (National & State)	Price and Output determination under Monopolistic Competition, Oligopoly.			
Month	Class	Name of Course			Content of Course			Class Activities	Assess ment	Home work
Decem ber	B.Com. 2 <sup>nd</sup> Year	Cost Account Unit {4}	Business Statistics Unit {4}	Fundamental of Entrepreneurship Unit {4}	Cost Account	Business Statistics	Fundamental of Entrepreneurship			
		Operating costing:	Analysis of Time Series:	Role of Government in organizing EDPs	Operating costing: Practical Problem	Cause of Variation in time series data; Components of a time series.	Role of Government in organizing EDPs;	Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Subject Quiz	Half Yearly Exam/ Internal Exam	Solve Practical Problem and question Bank
		Process Costing	Decompositio n Additive and Multiplicative models	Critical evaluation.	Process Costing - excluding inter- process profits, and joint and by- products.	Determination of trend Moving Averages Method and method of least squares (including linear, second degree, parabolic, and exponential trend)	Critical evaluation.		Half Yearly Exam/ Internal Exam	Solve Practical Problem and question Bank

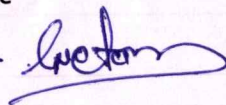


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January	B.Com. 3 <sup>rd</sup> Year	Indirect Taxes with GST {Unit 4}	Principle of Marketing {Unit 5}	International Marketing {Unit 5}	Indirect Taxes with GST	Principle of Marketing	International Marketing			
		ASSESSMENT AND RETURNS.	Personal selling	Export Policy and Practices in India:	Input tax Credit: Eligibility, Apportionment, Inputs on capital goods, Distribution of credit by Input Service Distributor (ISD) Furnishing details of outward supplies and inward supplies, First return, Annual return and Final return.	Selling as a career; Classification of successful sales person; Functions of sales man. Recent development in marketing social marketing, online marketing, Direct marketing, Services marketing, Green marketing.	Exim policy an overview; Trends in India's foreign trade; Steps in starting an export business; Product selection; Market Selection; Export pricing; Export finance; Documentation; Export procedures; Export Assistance and incentives. Marketing Control Process	Preparing Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Subject Quiz	Pre- Final Exam Unit	Solve Practical Problem and question Bank

Department of Commerce

Miss. Gayatri Netam  
(H.O.D)





Principal

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**GOVT.COLLEGE KHERTHA, DISTT.- BALOD(C.G.)**  
**DEPARTMENT OF COMMERCE**  
**TEACHING PLAN (SESSION-2023-24)**

**OBJECTIVES:-**

<b>Financial Accounting {B.Com. I}</b>	<b>Business Communication {B.Com. I}</b>	<b>Business Regulatory framework {B.Com. I}</b>
The course aims to help learners to acquire conceptual knowledge on financial accounting to impart skills for recording various kinds of business transactions with G.S.T. and to prepare financial statements	The course Aims to impart the learner's skill in reading writing comprehension and communication in business field especially using electronic media	To provide a brief idea about the framework of Indian business laws.
<b>Corporate Accounting {B.Com. II}</b>	<b>Company Law {B.Com. II}</b>	<b>Principles of Business Management {B.Com. II}</b>
This course enables the students to develop awareness about corporate accounting in conformity with the provisions of companies Act.	This objective of this course is to provide basic knowledge of the provisions Companies Act. 2013, along with relevant case law.	This Course familiarizes the students with the basics basics of principles of management.
<b>Income Tax {B.Com. III}</b>	<b>Auditing {B.Com. III}</b>	<b>Management Accounting {B.Com. III}</b>
It enables the students to know the basics of Income Tax Act and its implications.	This course aims at imparting knowledge about the principles and methods of auditing and their applications.	This course provides the students an understanding of the application of accounting techniques for management.

Month	Class	Name of Course			Content of Course			Class Activities	Assessment	Home work
		Financial Accounting	Business Communication	Business Regulatory framework	Financial Accounting	Business Communication	Business Regulatory framework			
August	B.Com. 1 <sup>st</sup> Year	{ Unit-1}	{ Unit-1}	{ Unit-1}	Financial Accounting	Business Communication	Business Regulatory framework			
		Accounting An introduction:	Introducing Business Communication	Law of contract (1872)-	Development, Definition, Needs, objectives, Branches of Accounting Basic Accounting, Concept of Single and Double entry system etc.	Definition, Concept and Significance of communication, Basic forms of communication. communication Models and Process: Principal of Effective communication	Nature of contract classification; offer and acceptance.	Preparing Notes, Power Point Presentation,	Unit Test	Solve Practical Problem and question Bank
	B.Com. 2 <sup>nd</sup> Year	Corporate Accounting { Unit-1}	Company Law { Unit-1}	Principles of Business management { Unit-1}	Corporate Accounting	Company Law	Principles of Business management			
		Issue, Forfeiture, and Re-issue of Shares	Corporate personalities	Introduction:	Issue, Forfeiture, and Re-issue of Shares Practical Problem.	; Kinds of Companies, Nature & Scope etc.	Concept, nature, process, and significance of management etc.	Preparing Notes, Power Point Presentation	Unit Test	Solve Practical Problem and question Bank

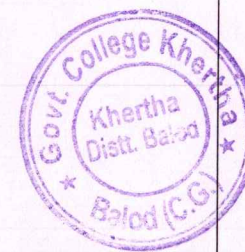
Month	Class	Name of Course			Content of Course			Class Activities	Assessment	Home work
August	B.Com. 3 <sup>rd</sup> Year	Income Tax	Auditing	Management Accounting	Income Tax	Auditing	Management Accounting			
		{Unit -1}	{Unit -1}	{Unit -1}						
		Basic Concepts:	Introduction:	Management Accounting:	Income, casual income, assessment year, previous year, grosses total income, total income, and person.	Meaning and objectives of auditing: Types of audit, Internal audit.	Management Accounting: Meaning, nature, scope, and functions of management Accounting: Role of management accounting in decision making: Management accounting vs. financial accounting.	Preparing Notes, Power Point Presentation,	Unit Test	Solve Practical Problem and question Bank
September	B.Com. 1 <sup>st</sup> Year	Financial Accounting { Unit-1}	Business Communication { Unit-1}	Business Regulatory framework { Unit-1}	Financial Accounting	Business Communication	Business Regulatory framework			
		Accounting Transaction	Theories of communication	Law of contract (1872) & Considerations	Journal, ledger, sub division of journal cash book (including GST Transaction) and Trial balance.	Self-Development and Communication Development of Positive personal Attitude. SWOT analysis. Communication: Ethics. Business Language.	Capacity of parties to contract, free consent Considerations, Legality of object Agreement declared void.	Preparing Notes, Group Discussion, Power Point Presentation Video Lecture.	Unit Test	Solve Practical Problem and question Bank
		{ Unit-2}	{ Unit-2}	{ Unit-2}	{ Unit-2}	{ Unit-2}	{ Unit-2}			
		Final Accounts:	Corporate communication	Special contracts	Manufacturing Accounts, Trading Accounts, Profit Loss Account, Balance Sheet,	Formal and Informal communication Network Grapevine Miscommunication (Barriers) and improving communication.	Indemnity & Guarantee, Bailment and pledge.			
	B.Com. 2 <sup>nd</sup> Year	Corporate Accounting { Unit-1}	Company Law { Unit-1}	Principles of Business management { Unit-1}	Corporate Accounting	Company Law	Principles of Business management	Preparing Notes, Group Discussion, Power Point Presentation Capacity Building, Video Lecture..	Unit Test	Solve Practical Problem and question Bank
		Issue and Redemption of share and Debenture	Corporate personalities	Management roles (Mintzberg)	Issue and Redemption of preference share and Debenture Numerical Question.	Promotion on and incorporation of companies.	An overview of functional areas of management, Development management thought, Classical and neo-classical system, Concept approaches.			

Month	Class	Name of Course			Content of Course			Class Activities	Assess ment	Home work
Septem ber	B.Com. 3 <sup>rd</sup> Year	Income Tax	Auditing	Management Accounting	Income Tax	Auditing	Management	Preparing Notes, Group Discussion, Power Point Presentation Capacity Building,	Unit Test	Solve Practical Problem and question Bank
		{Unit -1}	{Unit -1}	{Unit -1}	Agricultural Income, {Unit -2} Income From Salary Illustration & Practical Problem	Audit Programme, Audit note books, Working papers and evidences	Classification of ratios Profitability ratios, turnover ratios, liquidity ratios, turnover ratios; Advantages of ratio analysis; Limitations of accounting ratios.			
		Agricultural Income	Audit Process	Ratio Analysis						
		{Unit -2}								
		Heads of Income								
October	B.Com. 1 <sup>st</sup> Year	Financial Accounting	Business Communication	Business Regulatory framework	Financial Accounting	Business Communication	Business Regulatory framework			
		{ Unit-2}	{ Unit-2}	{ Unit-2}						
		Final Accounts and Rectifications of Errors:	Practices in Business communication	Law of Agency	Trading Accounts, Profit Loss Account, Balance Sheet, Rectifications of Errors: Classification of errors, location of errors, Rectification of errors, Suspense account etc.	Group Discussions, Seminar, Effective listening, Principle of effective listening, Factor of effective - listening exercises, Oral. Written and Video session. Audience analysis and Feedback.	Meaning Modes of creating Agency. Types of Agents, Personal Liability of an Agent and Termination of Agency	Preparing Notes Power Point Presentation Capacity Building, Video Lecture assignment/ Project work.	Unit Test	Solve Practical Problem and question Bank
	B.Com. 2 <sup>nd</sup> Year	Corporate Accounting	Company Law	Principles of Business management	Corporate Accounting	Company Law	Principles of Business management			
		{ Unit-2}	{ Unit-2}	{ Unit-2}						
		Final Accounts	Memorandum of Association	Planning	Final Accounts ( As par company act 2013) Numerical	Articles of Association, Prospectus, Shares, Shares Capital, transfer and transmission.	Concept, process and types. Decision making concept and Bounded rationality: Management by objectives; Corporate planning: Environment analysis and diagnosis; Strategy formulation.	Preparing Notes Power Point Presentation Capacity Building, Video Lecture., assignment/ Project work	Unit Test	Solve Practical Problem and question Bank

Month	Class	Name of Course			Content of Course			Class Activities	Assessment	Home work
October	B.Com. 3 <sup>rd</sup> Year	Income Tax {Unit -2}	Auditing {Unit -2}	Management Accounting {Unit -2}	Income Tax	Auditing	Management	Preparing Notes Power Point Presentation Capacity Building, Video Lecture Project work	Unit Test	Solve Practical Problem and question Bank
		Heads of Income	Internal Check System	Funds Flow Statement & Cash Flow Statement	Income From Salary and Income From House Property.	Internal Check System: Internal control, Audit Procedure: Vouching: Verification of assets and liabilities.	Funds Flow Statement as per Indian Accounting Standard-3 and Cash Flow Statement			
November	B.Com. 1 <sup>st</sup> Year	Financial Accounting { Unit-2}	Business Communication { Unit-3}	Business Regulatory framework { Unit-3}	Financial Accounting	Business Communication	Business Regulatory framework			
		Depreciation Accounting	Writing skill	Sale of Goods Act (1930)	Depreciation accounting; methods of recording depreciation, methods for providing depreciation, Depreciation of different assets; Indian Accounting standard and Income Tax.	Writing skill:- Business letters Definition, Concepts, Structure. Advantage, Disadvantage. Need and kinds of business letter. Essentials of Effective Business letter. Good news and bad New letters, Office memorandum Writing Resume and letter of Job Application.	Definition, Sale & Agreement to sell, Types of Goods, Conditions & Warranties, Sale by Non-owners, Unpaid Seller, CIF, FOB and Ex-Ship Contracts.	Preparing Notes Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Subject Quiz	Terminal Exam	Solve Practical Problem and question Bank
	B.Com. 2 <sup>nd</sup> Year	Corporate Accounting { Unit-2}	Company Law { Unit-3}	Principles of Business management { Unit-3}	Corporate Accounting	Company Law	Principles of Business management			
		Liquidation of Company	Capital management	Organizing:	Liquidation of Company {Numerical}	Borrowing power, mortgages and charges, debenture.	Organizing: Concept, nature, process and significance; Authority and resident relationships: Centralization and decentralization; Departmentation; Organization structure forms and contingency factors.	Preparing Notes Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Subject Quiz	Terminal Exam	Solve Practical Problem and question Bank

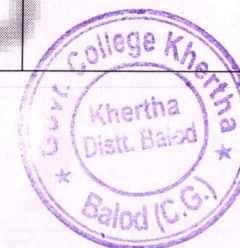
Month	Class	Name of Course			Content of Course			Class Activities	Assessment	Home work
November	B.Com. 3 <sup>rd</sup> Year	Income Tax {Unit -3}	Auditing {Unit -3}	Management Accounting {Unit -3}	Income Tax	Auditing	Management			
		Profit and gains of business, Capital gains, Income from other sources.	Audit of Limited Companies:	Absorption and Marginal Costing & Break-even analysis	Profit and gains of business or profession, including provisions relating to specific business; Capital gains, Income from other sources.	{A.} Company auditor - Qualification, Appointment, powers, duties, Resignation and liabilities. {B} Divisible profits and dividend. {C}. Auditor's report - standard report and qualified report. d. Special audit of banking companies.	Marginal and differential costing as a tool for decision making make or buy, Change of product mix, Pricing, Break-even analysis: Exploring new markets, Shutdown decisions.	Preparing Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Subject Quiz	Terminal Exam	Solve Practical Problem and question Bank
December	B.Com. 1 <sup>st</sup> Year	Financial Accounting { Unit-3}	Business Communication { Unit-4}	Business Regulatory framework { Unit-4}	Financial Accounting	Business Communication	Business Regulatory framework			
		Computerized Accounting System (using any popular accounting software)	Report Writing:	Negotiable Instrument Act (1881)	Creation of Vouchers; recording transactions; preparing reports, cash book, bank book, ledger Accounts, trial balance, Profit and loss account, Balance Sheet. Fund Flow statement. Cash Flow Statement. Selecting and shutting a Company, Backup and Restore data of a Company.	Introduction to a Proposal, Short report and formal report. Report preparation. Oral Presentation Principles of Oral Presentation, Factor effecting Presentation Sales Presentation, Training Presentation, conducting surveys, Speeches to Motivate, Presentation skill.	Definition of Negotiable instrument, Feature; promissory note; Bill of exchange cheque, Holder and holder in the due course, crossing of a cheque, types of crossing, Negotiation, dishonor and discharge of negotiable instrument	Preparing Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Guest Lecture	Half Yearly Exam/ Internal Exam	Solve Practical Problem and question Bank
	B.Com. 2 <sup>nd</sup> Year	Corporate Accounting { Unit-3}	Company Law { Unit-3}	Principles of Business management { Unit-4}	Corporate Accounting	Company Law	Principles of Business management	Preparing Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Guest Lecture	Half Yearly Exam/ Internal Exam	Solve Practical Problem and question Bank
		Valuation of Goodwill and Shares.	Directors	Motivating and Leading People at work	Average Profit method, Super profit method, Capitalization Method, Annuity method	Managing Direction, whole time director, Appointment, Remuneration and duties.	Motivation concept; Theories Herzberg, McGregor, and Ouchi; Financial and non-financial incentives.			

Month	Class	Name of Course		Content of Course	Class Activities			Class Activities	Assess ment	Home work
December	B.Com. 3 <sup>rd</sup> Year	Income Tax {Unit -4}	Auditing {Unit -3}	Management Accounting {Unit -4}	Income Tax	Auditing	Management			
		Computation of Tax Liability	Audit of Limited Companies:	Budgeting for profit Planning and control:	Set –off and carry forward of losses, Deduction from gross total income.	{D} Special audit of banking companies. {E} Audit of educational institutions. {F} Audit of Insurance companies.	Meaning of budget and budgetary control; Objectives; Merits and limitations; Types of budgets, Fixed and flexible budgeting; Control ratios; Zero base budgeting; Responsibility accounting; Performance Budgeting.	Preparing Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Guest Lecture	Half Yearly Exam/ Internal Exam	Solve Practical Problem and question Bank
January	B.Com. 1 <sup>st</sup> Year	Financial Accounting { Unit-4}	Business Communication { Unit-5}	Business Regulatory framework { Unit-4}	Financial Accounting	Business Communication	Business Regulatory framework			
		(1) Accounting for Hire-Purchase Transaction (2) Consignment: (3 ) Branch Account	Non- Verbal Aspects of communicating, Body Language:	Information Technology Act 2000 and cybercrime Act 2012	Accounting for Hire-Purchase Transaction: Journal entries and ledger Account in the books of Hire Venders and Hire purchase. <b>Consignment:</b> Features, Accounting treatment in the hooks of the Consignor and consignee. <b>Accounting for Inland Branches:</b> Concept of dependant and branches, accounting Preparation of consolidated profit and loss accounts and balance sheet with adjustment	<b>Non- Verbal Aspects of communicating, Body Language:</b> K kinesics, Proxemics, Para Language. <b>Interview skills:</b> Appearing in Interviews; Conducting interview; mock Interview	Information Technology Act 2000 and cybercrime Act 2012 related to e- Business only.	Preparing Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Subject Quiz	Pre-Final Exam	Solve Practical Problem and question Bank



Month	Class	Name of Course			Content of Course			Class Activities	Assessment	Home work
January	B.Com. 2 <sup>nd</sup> Year	Corporate Accounting { Unit-4}	Company Law { Unit-4}	Principles of Business management { Unit-4}	Corporate Accounting	Company Law	Principles of Business management	Preparing Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Subject Quiz	Pre-Final Exam	Solve Practical Problem and question Bank
		Accounting for Amalgamation of Companies & Reconstruction of Companies	Company meetings	Leadership & Communication	Accounting for Amalgamation of Companies as per Indian Accounting Standard 14: Accounting for internal reconstruction excluding intercompany holdings and re-construction schemes.	Company meetings kinds, Notice, quorum, voting, proxy, resolutions, minutes.	<b>Leadership:</b> concept and leadership styles; Leadership theories (Tannenb Schmidt.); Likert's System Management; <b>Communication :</b> Nature, process, networks, and barriers, Effective Communication.			
	B.Com. 3 <sup>rd</sup> Year	Income Tax {Unit -4}	Auditing {Unit -4}	Management Accounting {Unit -5}	Income Tax	Auditing	Management	Preparing Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Subject Quiz	Pre-Final Exam	Solve Practical Problem and question Bank
		Computation of Tax Liability	Investigation:	Standard Costing and Variance Analysis:	Deduction from gross total income. Aggregation of income; Computation of total income and tax liability of individual and & HUF.	Investigation: Investigation; Audit of non profit companies, {A} Where fraud is suspected, and {B} When a running a business is proposed. {C} Verifications & Valuation of assets.	Standard Costing and Variance Analysis: Meaning of standard cost and standard Costing; Advantages and application; Variance analysis - material; Labour and overhead (Two-way analysis); Variances.			
February	B.Com. 1 <sup>st</sup> Year	Financial Accounting { Unit-5}	Business Communication { Unit-5}	Business Regulatory framework { Unit-5}	Financial Accounting	Business Communication	Business Regulatory framework			
		Joint Venture & Partnership Account	Modem for ins of Communicating	consumer protection Act 2019	Joint Venture: Features, Accounting procedures, Joint Bank account, Records Maintained by Co-venture of (a) all transactions (b) only his Own transactions. (Memorandum joint venture account). Partnership Account: Dissolution of a	Modem for ins of Communicating: Fax: E-Mail, video Conferencing, etc. international Communication for globe business.	The consumer protection Act 2019: Main provision, Definition of consumer, consumer Disputes, Grievances redressal machinery, Indian partnership Act1932, Limited Liabilities partnership Act 2008, 15 Introduction of Intellectual property	Preparing Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Subject Quiz	Unit Test	Solve Practical Problem and question Bank

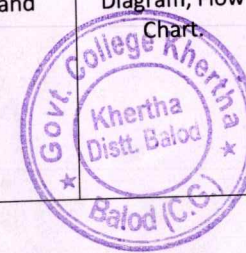
February	B.Com. 1 <sup>st</sup> Year				partnership firm, Amalgamation of partnership Firms, Conversion of partnership firm into limited liability Company		Right Act - Copyright, Patent & Trademark.			
	B.Com. 2 <sup>nd</sup> Year	Corporate Accounting  { Unit-5}	Company Law  { Unit-5}	Principles of Business management { Unit-5}	Corporate Accounting	Company Law	Principles of Business management			
		Consolidated Balance Sheet of holding companies	Majority powers and minority rights	Managerial Control, Management of Change	Consolidated Balance Sheet of holding companies with one subsidiary	Majority powers and minority rights: Prevention of oppression and mismanagement. Winding up - kinds and conduct.	<b>Managerial Control:</b> Concept and process; Effective control system; Technical control - traditional and modern. <b>Management of Change:</b> Concept, nature, and process of planned Resistance to change; Emerging horizons of management in a environment.	Preparing Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Subject Quiz	Unit Test	Solve Practical Problem and question Bank
	B.Com. 3 <sup>rd</sup> Year	Income Tax  {Unit -5}	Auditing  {Unit -5}	Management Accounting {Unit -5}	Income Tax	Auditing	Management			
		Tax Management	Recent Trends in Auditing	Variance Analysis:	<b>Tax Management:</b> Tax deduction at source, Advance payment of tax, Assessment procedures, Tax planning for individuals etc.	<b>Recent Trends in Auditing:</b> Nature and significance of cost audit, Tax Audit, Management audit.	Variance analysis - material; Labour and overhead (Two-way analysis); Variances.	Preparing Notes, Group Discussion, Power Point Presentation Capacity Building, Presentation By Students, Video Lecture, Subject Quiz	Unit Test	Solve Practical Problem and question Bank



**GOVT.COLLEGE KHERTHA, DISTT.- BALOD(C.G.)**  
**DEPARTMENT OF POLITICAL SCIENCE**  
**TEACHING PLAN (SESSION-2023-24)**  
**Name of Subject - M.A. (political Science) Semester**

Semester 1 <sup>st</sup> -	Semester -3 <sup>rd</sup>
Paper -I Indian Political Thought	Paper - I Principles of International politics
Paper -II Indian Government of Politics	Paper-III Research Methodology Part-I

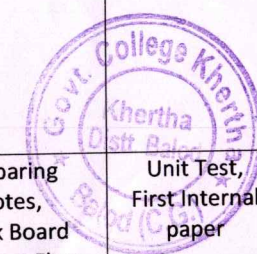
Month	Class	Papers		Content of Paper		Class Activities	Assessment	Home work
		Paper-I Indian Political Thought	Paper-II Indian Government of Politics	Paper-I Indian Political Thought	Paper-II Indian Government of Politics			
July	M.A. I Sem.	{ Unit-1}	{ Unit-1}	{ Unit-1}	{ Unit-1}			
		Kautailya, Swami Vivekanand and Bal Gangadgar tilak	BACKGROUND OF INDIAN CONSTITUTION	Introduction of Kautailya, Kautailya: Saptang Theory. Circle Theory, Economics Theory etc. Introduction of swami vivekanand: Political Philosophy of Vivekanand, Social philosophy of Vivekanand.	BACKGROUND OF INDIAN CONSTITUTION, ORGANIZATION IDEOLOGICAL BASIC SOURCE, PREAMBLE, FEATURES OF INDIAN CONSTITUTION	Preparing Notes, Black Board Diagram, Flow Chart.	Unit Test	Solve Sample Question Paper and Question Bank.
	M.A. III Sem.	Paper-I Principles of International politics	Paper-III Research Methodology Part-I	Paper-I Principles of International politics	Paper-III Research Methodology Part-I			
		{ Unit-1}	{ Unit-1}	{ Unit-1}	{ Unit-1}			
		International Politics	Social Research	Evolution of International Politics as discipline, Nature, Scope.	Nature of Social Research, Importance and uses, Deference between pure and Applied Research.	Preparing Notes, Black Board Diagram, Flow Chart.	Unit Test	Solve Sample Question Paper and Question Bank.



Month	Class	Papers		Content of Paper		Class Activities	Assessment	Home work
August	M.A. I Sem.	Paper-I Indian Political Thought { Unit-1}	Paper-II Indian Government of Politics { Unit-2}	Paper-I Indian Political Thought { Unit-1}	Paper-II Indian Government of Politics { Unit-2}			
		Bal Gangadhar Tilak	FUNDAMENTAL RIGHTS AND DUTIES,	Bal Gangadhar Tilak: Life History, Political Philosophy of Tilak/ Economics Ideas of Tilak, Philosophy of Social Reform.	FUNDAMENTAL RIGHTS: Types. FUNDAMENTAL	Preparing Notes, Black Board Diagram, Flow Chart, Group Discussion	Unit Test	Solve Sample Question Paper and Question Bank
		{ Unit-2}	{ Unit-2}	{ Unit-2}	{ Unit-2}			
	M.A. III Sem.	Dr. BhimRao Ambedkar, Mahatma Gandhi	DIRECTIVE PRINCIPLES, STATE POLLEY,	Dr. BhimRao Ambedkar: Life Story, Political Ideas of Dr. Ambedkar. Social Ides of Dr. Ambedkar. Mahatma Gandhi: Life History ,Religion and politics, Gandhi and God, The Concept of truth, Gandhi Concept of Non-Violence, Political Ideas of Gandhi ji , Economics ideas of Gandhi ji, Social Ideas of Gandhi ji.	Duties: Evolution. DIRECTIVE PRINCIPLES, STATE POLLEY: Importance			
	M.A. III Sem.	Paper-I Principles of International politics { Unit-1}	Paper-III Research Methodology Part-I { Unit-1}	Paper-I Principles of International politics { Unit-1}	Paper-III Research Methodology Part-I { Unit-1}			
		Method of Study	Research Problem	Method of Study Traditional and Scientific	Identification of Research Problem Research Design, Hypotheses Formulation and testing.	Preparing Notes, Black Board Diagram, Flow Chart, Group Discussion	Unit Test	Solve Sample Question Paper and Question Bank



Month	Class	Papers		Content of Paper		Class Activities	Assessment	Home work
				Paper-I Indian Political Thought { Unit-2}	Paper-II Indian Government of Politics { Unit-2}			
September	M.A. I Sem	Paper-I Indian Political Thought { Unit-2}	Paper-II Indian Government of Politics { Unit-2}	Paper-I Indian Political Thought { Unit-2}	Paper-II Indian Government of Politics { Unit-2}			
		Gopal Krishna Gokhle	CONSTITUTION AMENDMENT: PROCESS CENTRE-STATE RELATION: JAMMUKASHMIR AND ARTICLE 370 AND 35, 6 SCHEDULE OF THE CONSTITUTION	Life History of Gokhale, Political Philosophy of Gokhale, Economics thought of Gokhale, Social thought of Gokhale	CONSTITUTION AMENDMENT. PROCESS CENTRE-STATE RELATION: JAMMUKASHMIR AND ARTICLE 370 AND 35, 6 SCHEDULE OF THE CONSTITUTION	Preparing Notes, Black Board Diagram, Flow Chart , Group Discussion Power Point Presentation, Assignment	Unit Test	Solve Sample Question Paper and Question Bank
	M.A. III Sem	Paper-I Principles of International politics { Unit-2}	Paper-III Research Methodology Part-I { Unit-2}	Paper-I Principles of International politics { Unit-2}	Paper-III Research Methodology Part-I { Unit-2}			
		Theories of International Politics	Social Survey	Theories of International Politics, Realign Idealism, Equilibrium, Decision making, Game, communication & System Theory)	Social Survey- Amis Importance, Process, Data Collection, Primary and Secondary Source of Facts.	Preparing Notes, Black Board Diagram, Flow Chart , Group Discussion Power Point Presentation, Assignment	Unit Test	Solve Sample Question Paper and Question Bank
October	M.A. I Sem	Paper-I Indian Political Thought { Unit-3}	Paper-II Indian Government of Politics { Unit-3}	Paper-I Indian Political Thought { Unit-3}	Paper-II Indian Government of Politics { Unit-3}			
		Thought of Raja Ram Mohan Rai , Ram Manohar Lohia, Jaiprakash Narain	UNION LEGISLATURE	Raja Ram Mohan Rai: Life Story, Ram Mohan Rai: Sources of Philosophy, Political thought of Ram Mahan Rai,	UNION LEGISLATURE LOK SABHA RAJYA SABHA, UNION EXECUTIVE   PRESIDENT, PRIME MINISTER AND COUNCIL	Preparing Notes, Black Board Diagram, Flow Chart , Group Discussion	Unit Test, First Internal paper	Solve Sample Question Paper and Question Bank



October				Social Thought of Ram Mohan Rai, Economics Ideas of Ram Mohan Rai, Rai On Education. <b>Ram Manohar Lohia:</b> Life Story. <b>Ram Manohar Lohia:</b> Political and Social Ideas, Economics Ideas of Dr. Lohia, <b>Lohia:</b> An Valuation, Jaiprakash Narain : Life History, Political and Economic Ideas, Jaiprakash Narain : An Evolution .	OF MINISTERS.	Power Point Presentation, Oral Presentation by Students. Video Lecture		
October	M.A. III Sem	Paper-I Principles of International politics { Unit-3}	Paper-III Research Methodology Part-I { Unit-3}	Paper-I Principles of International politics { Unit-3}	Paper-III Research Methodology Part-I { Unit-3}			
		Concept of Power	Method	Concept of Power- Elements and Limitations of National Power- Balance of Power- Collective Security, New colonialism. National Interest and International Ideology and Morale	Observational Method, Interview Method, Questionnaire and Schedules	Diagram, Flow Chart , Group Discussion Power Point Presentation, Oral Presentation by Students. Video Lecture	Unit Test, First Internal paper	Solve Sample Question Paper and Question Bank
November	M.A. I Sem	Paper-I Indian Political Thought { Unit-4}	Paper-II Indian Government of Politics { Unit-4}	Paper-I Indian Political Thought { Unit-4}	Paper-II Indian Government of Politics { Unit-4}			
		THOUGHT OF JAWAHAR LAL NEHRU DINDYAL UPADHYAY, MOULANA ABUL KALAM AZAD	UNION JUDICIARY, INDIAN POLITICS	JAWAHAR LAL NEHRU: Life History, Political and Economic Ideas of Nehru. <b>DINDYAL UPADHYAY:</b> Life History, Integrated Humanism.	UNION JUDICIARY SUPREME COURT AND JUDICIAL REVIEW INDIAN POLITICS- CASTISM, REGIONALISM RELIGION AND COMMUNALISM, CRIMINALISATION OF	Diagram, Flow Chart , Group Discussion Power Point Presentation, Oral Presentation by Students.	Second Internal paper	Solve Sample Question Paper and Question Bank



				<b>MOULANA ABUL KALAM AZAD</b> : Life History, Spiritual background of Azad political philosophy, political philosophy of Maulana Azad . An estimate of Moulana Azad Political Philosophy .	POLITICS AND CORRUPTION.			
Month	Class	Papers		Content of Paper		Class Activities	Assessment	Home work
November	M.A. III Sem	Paper-I Principles of International politics { Unit-4}	Paper-III Research Methodology Part-I { Unit-4}	Paper-I Principles of International politics { Unit-4}	Paper-III Research Methodology Part-I { Unit-4}			
		Non Proliferation, Regional Organization	Type of study	Disarmament, Nuclear Non Proliferation-CTBT NPT. Regional Organization SAARC, ASEAN, OPEC	{A} Types of Panel Study {B} Types of Case Study {C} Types of Field Study	Diagram, Flow Chart , Group Discussion Power Point Presentation, Oral Presentation by Students. Video Lecture	Second Internal paper	Solve Sample Question Paper and Question Bank

Department of Political Science  
Mr. Komal Ram Rawate



Principal

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## NAME OF SUBJECT – BOTANY

**CLASS – B.Sc.-I, PAPER I – Microbial Diversity and Plant Pathology**

**PAPER II – Archegoniatae and Plant Architecture**

**B.Sc.-II, PAPER I – Plant Taxonomy, Economic Botany, Plant Anatomy & Embryology**

**PAPER II – Ecology & Plant Physiology**

**B.Sc.-III, PAPER I – Analytical Technology Plant Pathology, Experimental Embryology Elementary**

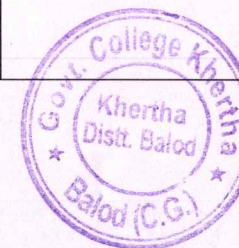
**Biostatics, Environmental Pollution & Conservation**

**PAPER II – Genetics , molecular Biology, Biotechnology & Biochemistry**

MONTH	TOPIC		CLASS	OBJECTIVE	OBJECTIVE	ACTIVITIES	ASSESSMENT	HOMEWORK
	PAPER-I	PAPER-II						
	UNIT-I	UNIT-I		PAPER-I	PAPER-II			
JULY	Microbial Diversity	Archegoniates	B.Sc.-I	Staining techniques, Microbiology lab & principle of their working fermentation & fermenters	General characteristics & Introduction of Bryophytes	Notes , Green Board Diagram	MCQs, Question Bank	Solve Sample Questions
	Analytical Instrumentation	Genetics	B.Sc.-III	Principle & Application of analytical instrumentation	Organization & morphology of chromosome			
	Plant Taxonomy	Ecology	B.Sc.-II	Plant material & Herbarium techniques, Important botanical garden	Scope of Ecology, Soil formation & Soil profile			
	Practical - I	Practical - II	B.Sc.- I/II/II	Laboratory Work – I	Laboratory Work – II			
AUGUST	UNIT-I	UNIT-I	CLASS	PAPER-I	PAPER-II	ACTIVITIES	ASSESSMENT	HOMEWORK
	Instrumentation techniques	Bryophytes	B.Sc.-I	Principle of their working – Autoclave, Oven, Centrifuge, Spectrophotometry electrophoresis	Morphology, anatomy & Reproduction of Bryophytes member	Questions & Answers Practices, Practical, Specimen , Slides showing	Class Test, MCQs, PPT	Solve Sample Questions
	Instrumentation techniques	Gene	B.sc- III	Principle & Application of analytical instrumentation	Gene concept, Chromosome aberration			
	Plant Taxonomy	Ecology Succession	B.Sc.-II	Bentham & Hooker system of Classification , IUCN	Morphological & Anatomical adaptation in hydrophytes, xerophytes, & epiphytes			

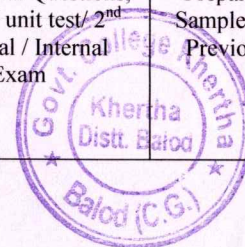


	Practical - I	Practical - II	B.Sc.- I/II/II	Laboratory Work – I	Laboratory Work – II			
AUGUST	UNIT-II	UNIT-II	CLASS	PAPER-I	PAPER-II	ACTIVITIES	ASSESSMENT	HOMEWORK
	Cell structure	Pteridophytes	B.Sc.-I	Structure , Growth & Reproduction of Microbial World	General characteristic & Importance of Pteridophytes	Questions & Answers Practices, Practical, Specimen , Slides showing	Class Test, MCQs, PPT	Solve Sample Questions
	Experimental Embryology	Molecular Biology	B.sc- III	Plant tissue culture, somaclonal variation	Structure of Genetic Material			
	Plant Taxonomy	Energy Flow	B.Sc.-II	Systematic position, Characters & Economic Importance of Plant Families	Energy Flow & Environment impact assessment, Food chain in fresh water & trophic levels			
	Practical - I	Practical - II	B.Sc.- I/II/II	Laboratory Work – I	Laboratory Work – II			
SEPTEMBER	UNIT-II	UNIT-II	CLASS	PAPER-I	PAPER-II	ACTIVITIES	ASSESSMENT	HOMEWORK
	Microbiology	Pteridophytes	B.Sc.-I	Production of Microbes & Antibiotics	Morphology, Anatomy & Life cycle of Pteridophytes member	Notes, Practices, Practical, Specimen	Class Test, MCQs, PPT, Question Bank, 1 <sup>st</sup> unit test	Preparing Notes, Solve Sample Questions , Solve given questions
	Analytical Techniques	Molecular Biology	B.sc- III	Working Principle of Microscopy	Gene & Chromosomal Mutation			
	Plant Taxonomy	Biogeochemical cycle	B.Sc.-II	Systematic position, Characters & Economic Importance of Plant Families	Carbon, Nitrogen & Phosphorus cycle			
	Practical - I	Practical - II	B.Sc.- I/II/II	Laboratory Work – I	Laboratory Work – II			
OCTOBER	UNIT-III	UNIT-III	CLASS	PAPER-I	PAPER-II	ACTIVITIES	ASSESSMENT	HOMEWORK
	Phycology	Gymnosperm	B.Sc.-I	General Characteristic Features , Classification & Thallus Organization & Life cycle of algae	Classification, Distribution, Structure, Reproduction, Life cycle & Economic importance of gymnosperm,	Notes , Green Board Diagram	2 <sup>st</sup> unit test, MCQs, Oral Questions, PPT	Preparing Notes, Solve Sample Questions, Solve Previous year question paper
	Plant pathology	Biotechnology	B.sc- III	General principles of plant pathology, symptoms of fungal, Bacterial & Viral Diseases	Recombinant DNA & Gene cloning			
	Economic Botany	Plant physiology	B.Sc.-II	Economic Important of Medicinal plants, Fiber yielding Plant, Timber yielding plants, Spice Plants	Plant water relations, Significance & Factors Affecting of Transpiration			



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	Practical - I	Practical - II	B.Sc.- I/II/II	Laboratory Work – I	Laboratory Work – II			
NOVEMBER	<b>UNIT-IV</b>	<b>UNIT-IV</b>	<b>CLASS</b>	<b>PAPER-I</b>	<b>PAPER-II</b>	<b>ACTIVITIES</b>	<b>ASSESSMENT</b>	<b>HOMEWORK</b>
	Mycology	Palaeobotany	B.Sc.-I	General characters, Economic important & Classification of fungi	Genera; account. geological time scale	Group Discussion, Practical, Notes	PPT, 3 <sup>rd</sup> Unit test, 1 <sup>st</sup> Terminal Exam	Solve Sample Questions, Solve given Questions
	Environmental pollution & conservation	Biochemistry	B.sc- III	Concept of Biodiversity, conservation Strategies	Chemical composition & structure of Protein, Charbohydrate, Fat			
	Plant anatomy	Plant Physiology	B.Sc.-II	Apical meristems, root & shoot apex organization,	Photosynthetic apparatus & pigments			
	Practical - I	Practical - II	B.Sc.- I/II/II	Laboratory Work – I	Laboratory Work – II			
DECEMBER	<b>UNIT-IV</b>	<b>UNIT-IV</b>	<b>CLASS</b>	<b>PAPER-I</b>	<b>PAPER-II</b>	<b>ACTIVITIES</b>	<b>ASSESSMENT</b>	<b>HOMEWORK</b>
	Mycology	Palaeobotany	B.Sc.-I	Mushroom cultivation & Mycorrhiza	Process of fossilization & types of fossils and their study techniques	Questions & Answers Practices, Practical, Specimen , Slides showing, Group Discussion	MCQs, Oral Questions, PPT , 4 <sup>th</sup> unit test/ 2 <sup>nd</sup> Terminal / Internal Exam	Preparing Notes, Solve Sample Questions, Solve Previous year question paper
	Environmental pollution & conservation	Biochemistry	B.sc- III	Red data book, IUCN threat categories	Properties of Protein, Charbohydrat & Fat			
	Plant anatomy	Plant Physiology	B.Sc.-II	Anatomy of Dicot & monocot plant	Respiratory cycle – Glycolysis, kreb's cycle			
	Practical - I	Practical - II	B.Sc.- I/II/II	Laboratory Work – I	Laboratory Work – II			
DECEMBER	<b>UNIT-V</b>	<b>UNIT-V</b>	<b>CLASS</b>	<b>PAPER-I</b>	<b>PAPER-II</b>	<b>ACTIVITIES</b>	<b>ASSESSMENT</b>	<b>HOMEWORK</b>
	Plant pathology	Angiosperm morphology	B.Sc.-I	Disease concept, Defence mechanism, Mechanism of infection	Morphology & Modification of root, stem , leaf & bud	Questions & Answers Practices, Practical, Specimen , Slides showing, Group Discussion	MCQs, Oral Questions, PPT , 4 <sup>th</sup> unit test/ 2 <sup>nd</sup> Terminal / Internal Exam	Preparing Notes, Solve Sample Questions, Solve Previous year question paper
	Elementary Biostatics	Enzymes	B.sc- III	Introduction & Application of Biostatics	Nomenclature & Classification, Components of enzymes			
	Embryology	Plant Hormones	B.Sc.-II	Flower as a reproductive organ, Types of ovule	Physiology of flowering, Florigen concept			
	Practical - I	Practical - II	B.Sc.- I/II/II	Laboratory Work – I	Laboratory Work – II			



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	UNIT-V	UNIT-V	CLASS	PAPER-I	PAPER-II	ACTIVITIES	ASSESSMENT	HOMEWORK
JANUARY	Diseases & Control	Angiosperm morphology	B.Sc.-I	Symptoms casual organism, Disease cycle & control measures, Plant disease management, Biological control	Types of Inflorescences, Flower parts, Fruits & types of Placentation, Definition & Types of seeds	Group Discussion, Practical, Notes	Class Test, MCQs, PPT, Question Bank, Pre-final exam	Solve Sample Questions, Solve given Questions
	Elementary Biostatics	Enzymes	B.sc- III	Measure of central tendency – Mean, Mod, Median, Measures of dispersal – Standerd deviation, standerd error	Theories of enzyme, Factor affecting enzyme activity			
	Embryology	Plant Hormones	B.Sc.-II	Development of male & female gametophyte, apomixes and parthenocarpy	Photoperodism & vernaliztion, Seed dormancy & germination, Plant movement			
	Practical - I	Practical - II	B.Sc.- I/II/II	Laboratory Work – I	Laboratory Work – II			
FEBRUARY	UNIT-I/II/III/IV/V	UNIT-I/II/III/IV/V	CLASS			ACTIVITIES	ASSESSMENT	HOMEWORK
	course revision	course revision	B.Sc.-I/II/III	Preparation of practical and final exam		Questions & Answers Practices, Practical, Specimen Notes, , Guest Lecture, Online Webinar	Class Test, MCQs, PPT, Unsolved paper practices	Preparing Notes, Solve Sample Questions, Solve Previous year question paper

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Principal

**GOVT. COLLEGE KHERTHA DISTT – BALOD**

**SESSION – 2023 - 24**

**NAME OF SUBJECT – CHEMISTRY**

**CLASS – B.Sc.-I, PAPER I - Inorganic and Physical chemistry**

**PAPER II - Organic and Physical chemistry**

**B.Sc.-II, PAPER I – Inorganic chemistry**

**PAPER II – Organic chemistry**

**PAPER III - Physical chemistry**

**B.Sc.-III, PAPER I – Inorganic chemistry**

**PAPER II – Organic chemistry**

**PAPER III - Physical chemistry**

MONTH	PAPERS			CLASS	CONTENT			CLASS ROOM ACTIVITIES	ASSESSMENT	HOMEWORK
	PAPER-I	PAPER-II	PAPER-III		PAPER-I	PAPER-II	PAPER-III			
	UNIT-I	UNIT-I	UNIT-I							
JULY	Inorganic, organic & physical chemistry syllabus	Inorganic, organic & physical chemistry syllabus	Inorganic, organic & physical chemistry syllabus	B.Sc-II	Introduction of syllabus	Introduction of syllabus	Introduction of syllabus	Notes, Green Board Digram	MCQs, Question Bank	Solve Sample Questions
	Inorganic & physical chemistry syllabus	Organic & physical chemistry syllabus	-	B.Sc-I	Introduction of syllabus	Introduction of syllabus	-	Notes, Green Board Diagram, Group Discussion	MCQs, Question Bank	Solve Sample Questions
	Inorganic, organic & physical chemistry syllabus	Inorganic, organic & physical chemistry syllabus	Inorganic, organic & physical chemistry syllabus	B.Sc-III	Introduction of syllabus	Introduction of syllabus	Introduction of syllabus	Notes, Green Board Diagram, Group Discussion, Answers Practices	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes

	Inorganic chemistry practical	Organic chemistry practical	Physical chemistry practical	B.Sc.-I/II/III	Introduction of practical syllabus	Introduction of practical syllabus	Introduction of practical syllabus	Green Board Diagram , Book Bank	Compound test and Chemical Introduction	Sample Questions
JULY	Basic concept of Paper- I	Basic concept of Paper- II	Basic concept of Paper- III	B.Sc.-II	Periodic table chart	Types of Hydrocarbon	Types of States	Notes, Green Board Diagram, Group Discussion	MCQs, Question Bank	Solve Sample Questions
	Basic concept of Inorganic & Physical chemistry Paper- I	Basic concept of Inorganic & Physical chemistry Paper- II	-	B.Sc.-I	Periodic table chart & Group relationship s, p, d & f block elements / Types of States	Types of Hydrocarbon (Alkane, Alkene, Alkyne)	-	Green Board, Periodic table chart	MCQs, Question Bank	Solve Sample Questions
	Metal legend bonding in transition metal complexes	Basic concept of Organic chemistry Paper- II	Basic concept of Physical chemistry Paper- III	B.Sc.-III	Limitation valence bond theory, Application of CFSE , Stabilisation value	Hydrocarbons of common name & IUPAC name	Electromagnetic rays & wave	Notes, Green Board Diagram, Group Discussion, Answers Practices	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes
	Inorganic chemistry practical	Organic chemistry practical	Physical chemistry practical	B.Sc.-I/II/III	Introduction of practical syllabus	Introduction of practical syllabus	Introduction of practical syllabus	Green Board Diagram , Book Bank	Compound test and Chemical Introduction	Sample Questions
AUGUST	Chemistry of transition series elements	Chemistry of organic halides	Thermodynamics/ Thermo chemistry	B.Sc.-II	Transition elements : position in periodic table, electronic configuration	Alkyl halides: Methods of preparation, Nucleophilic substitution	State and path functions, isolated, closed and open systems, relation between heat capacities , U and H for reversible	Green Board Diagram , Book Bank	Class Test, MCQs, PPT	Sample Questions
	Atomic structure	Basics of organic chemistry	-	B.Sc.-I	Boh's theory and its limitation, General ide of de-Broglie matter -waves	Influence of hybridization on bond properties (alkane, alkene & alkyne)	-	Notes, Green Board Diagram, Group Discussion, Answers Practices	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes

	Metal ligand bonding in transition metal complexes	Heterocyclic compounds	Quantum mechanics - I	B.Sc.-III	Limitation of VBT / CFT , Application of CFSE , Tetragonal distortions from Octahedral geometry	Classification and nomenclature, structure, aromaticity in 5/6 – Membered rings	Black body radiation, planck's radiation law, photoelectric effect, Compton effect, angular momentum operator	Green Board Diagram , Book Bank	Class Test, MCQs, PPT	Sample Questions
	Inorganic chemistry practical	Organic chemistry practical	Physical chemistry practical	B.Sc.- I/II/III	Laboratory Work – I	Laboratory Work – II	Laboratory Work – III	-	Compound test and Chemical Introduction	-
AUGUST	Chemistry of transition series elements	Chemistry of organic halides	Thermodynamics/ Thermo chemistry	B.Sc.-II	Atomic and ionic radii, variable oxidation states, formation of coloured ions, magnetic movement 4d & 5d elements	Nucleophilic substitution, aryl halide, Diazonium salt , Nucleophilic aromatic substitution, Relative reactivity of alkyl/ benzyl and other halides	Law of thermo chemistry, Heats of reaction , Enthalpy, calculation of bond energy , effect of temperature (Krichhoff's equation), explosion temperature	Notes, Green Board Diagram, Group Discussion, Answers Practices	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes
	Atomic structure/ periodic properties	Basics of organic chemistry	-	B.Sc.-I	Heisenberg uncertainty principle, significance of $\psi$ and $\psi^2$ , Shapes of s,p,d orbitals, Periodic properties , With reference to s & p block	Application of IE, Resonance or mesomeric effect, Hyper conjugation & its application to stability of carbocations, carbanions, carbenes, Nitren, N-Phylic/ E-Phylic	-	Questions & Answers Practices, Practicals,	Class Test, MCQs, PPT	Solve Sample Questions
	Metal ligand bonding in transition metal complexes	Heterocyclic compounds	Quantum mechanics - I	B.Sc.-III	Jahn- Teller distortion, ligand field & MO theory , Thermodynamic s & kinetics aspect of metal complexes, Cis and Trans effects, Square planar	Synthesis, furan, pyrrole, Thiophene, Pyridine, Indol, Doebnar – Miller synthesis, Bischler – Napieralski reaction	Laplacian operator, eigen values eigen function , Schrodinger equation, significance of $\psi$ and $\psi^2$ Hydrogen atom and angular waves functions	Notes, Green Board Diagram, Group Discussion, Answers Practices	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes

					complexes					
	Inorganic chemistry practical	Organic chemistry practical	Physical chemistry practical	B.Sc.-I/II/III	Laboratory Work – I	Laboratory Work – II	Laboratory Work – III	-	Compound test and Chemical Introduction	-
<b>AUGUST</b>	<b>UNIT-II</b>	<b>UNIT-II</b>	<b>UNIT-II</b>							
	(A)Oxidation & reduction (B) co ordination compounds	Alcohols & Phenol	Thermodynamics - II	B.Sc.-II	Redox potential, electrochemical series, Werner's theory and its experimental verification IUPAC nomenclature, Chelates polynuclear complexes	Nomenclature 1°,2°,3° alcohols, methods of formation, trihydric alcohols, chemical reaction of glycerol, phenol – structure & bonding in phenols, strength of alcohols and phenols, Mechanism of fries rearrangement, claisen rearrangement, Gatterman synthesis, Reimer-tiemann reaction	Second law of thermodynamics, statement of cannot cycles & efficiency, concept of entropy, reversible and irreversible process, Mixing of ideal gases/ Gibbs and Helmholtz free energy, variation of G and A with pressure, Maxwell relation, Concept of residual entropy	Green Board Diagram, Book Bank	Class Test, MCQs, PPT, Question Bank	Sample Questions
	Chemical Bonding- I	Introduction of stereo chemistry	-	B.Sc.-I	Ionic bond, structures, co ordination no., semi-conductors, Born-Haber cycle, polarizing power, Bound moment & Dipole moment,	Optical isomerism, specific rotation, chirality, asymmetry, Enantiomers, configuration, Fischer, Erythrose and Threose, D/L, E/Z nomenclature, C.I.P. rules, R/S nomenclature	-	Notes, Green Board Diagram, Group Discussion, Answers Practices	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes
	Magnetic properties of transition metal complexes	(a)Organometallic reagent (b) Organic synthesis VIA Enolates	Quantum mechanics – II	B.Sc.-III	Types of magnetic behaviour, spin only	Organometallic compound : Grignard reagent formation, function &	Quantum mechanical approach of molecular orbital, Formation of $H_2^+$	Green Board Diagram, Book Bank	Class Test, MCQs, PPT, Question Bank	Sample Questions

					formula, L-S coupling, Electron spectra of transition metal complexes, Types of electronic transition, d-d transition, electron spectrum of complex ion	chemical reaction /Active methyl group, Keto-enol tautomerism of ethyl acetoacetate, Robinson annulation reaction	ion, LCAO approximation, Valence bond model of H <sub>2</sub> , comparison of M.O., Huckel theory to ethane, propene			
	Inorganic chemistry practical	Organic chemistry practical	Physical chemistry practical	B.Sc.-I/II/III	Laboratory Work – I	Laboratory Work – II	Laboratory Work – III	-	Compound test and Chemical Introduction	-
September	<b>UNIT-III</b>	<b>UNIT-III</b>	<b>UNIT-III</b>							
	Co-Ordination Chemistry	Aldehydes and Ketones	Chemical Equilibrium	B.Sc.-II	Valence bond theory (inner and outer orbital complexes), electroneutrality principal and back bonding. Crystal field theory, Crystal field splitting and stabilization energy, measurement of 10 Dq,	A. Nomenclature, structure and reactivity of carbonyl group, General method of preparation of aldehydes and ketones, Mechanism of nucleophilic addition to carbonyl groups: Benzoin, Aldol, perkin and Knoevenagel condensation, Beckmann and Benzil- Benzilic rearrangement.	Criteria of thermodynamic equilibrium, degree of advancement of reaction, chemical equilibria in ideal gases, Concept of Fugacity, Thermodynamic derivation of relation between Gibbs free energy of reaction quotient. Coupling of exergonic on temperature.	Green Board Diagram, Book Bank	Class Test, MCQs, PPT	Sample Questions
	Chemical Bonding- II	Acyclic hydrocarbons	-	B.Sc.-I	Covalent bond – valence bond theory and its limitations, concept of hybridization, VSEPR theory, simple molecules and	Alkenes- preparations of alkenes, properties addition to hydrogen, stability of alkenes, addition of H <sub>2</sub> O, peroxide	-	Notes, Green Board Diagram, Group Discussion, Answers Practices	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes

					ions containing lone pairs.	Dienes, types of dienes, reaction of conjugated dienes				
	Organometallic chemistry	Biomolecules (a) Carbohydrates	Spectroscopy	B.Sc.-III	Definition and classification of Organometallic compound on the basis of bond type, cocept of hapticity of organic ligands, 18 – electron rule, electron count of mononuclear General method of preparation of mono and binuclear carbonyls of 3d series	Occurrence, classification and their biological importance, Monosaccharides: relative & absolute configuration of glucose and fructose, epimers and anomer, Interconversion : of Aldoses and Ketose; Killiani Fischer synthesis and Ruff degradation, Polysaccharides – Elementry treatment of starch and cellulose	Introduction : Characterization of Electromagnetic radiation, region of spectrum, Representation of spectra, Energy levels of a rigid rotor, Slection rules, Determination of bond length, Isotopic effect, Vibration spectroscopy: Fundamental Vibration and their symmetry vibrating diatomic molecules, Pure Vibrational spectrum	Notes, Green Board Diagram, Group Discussion, Answers Practices	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes
	Inorganic chemistry practical	Organic chemistry practical	Physical chemistry practical	B.Sc.- I/II/III	Laboratory Work – I	Laboratory Work – II	Laboratory Work – III	-	Compound test and Chemical Introduction	-
September	<b>UNIT-III</b>	<b>UNIT-III</b>	<b>UNIT-III</b>							
	Co- ordination chemistry	Aldehydes And Ketone	Chemical Equilibrium	B.Sc.-II	CFSE in weak and strong field , pairing energies , factors affecting the magnitude of $10 Dq$ . Octahedral vs. tetrahedral coordination	B. Use of acetate as protecting group, oxidation of aldehydes, Baeyer-villiger oxidation of ketones, cannizzaro reaction, MPV, Clemmensen reduction, Wolf-Kishner reaction, $LiAlH_4$ and $NaBH_4$ reduction.	Equilibrium constants and their quantitative of relation between the various equilibrium constants $K_p$ , $K_c$ and $K_x$ , Le Chatelier principle, equilibrium between ideal gas and a pure condensed phase.	Notes, Green Board Diagram, Group Discussion, Answers Practices	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes
	Chemical Bonding- II	Acyclic hydrocarbons		B.Sc.-I	Bond pair of electrons: $H_2O$ , $NH_3$ , $PCl_3$ ,	Conjugated dienes – 1,2 and 1,4 addition of $HBr$ to		Notes, Green Board Diagram, Group Discussion, Answers	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes

					H <sub>3</sub> O <sup>+</sup> , SF <sub>4</sub> , ClF <sub>3</sub> , ICl <sub>2</sub> <sup>+</sup> , XeF <sub>2</sub> , XeF <sub>4</sub> , XeF <sub>6</sub> , XeOF <sub>2</sub> , XeOF <sub>4</sub> , MOT , bond order and bond strength, molecular orbital diagrams, of diatomic and simple hetero atomic molecules	1,3 butadiene and Diels-Alder reaction, alkynes preparation of dehydrogenation of dihalides dehalogenation, properties, Acidity of acetylenic hydrogen , metal ammonia reductions, physical properties and chemical reactivity.		Practices		
	Organometallic chemistry	Biomolecules (b)Amino acid acids, Protein and nucleic acids	Spectroscopy	B.Sc.-III	Structures of mononuclear and binuclear carbonyls of Cr, Mn, Fe, Co and Ni using VBT, $\pi$ -acceptor behavior of Co (Molecular orbital diagram of Co to be discussed), Zeise's salt: preparation and structure	Classification and Nomenclature of amino acids, isoelectric point , peptide bonds, protein structure, Constitutions of nucleic acid, DNA, RNA nucleoside, nucleotides double helical structure of DNA	Raman spectrum : Concept of Polarizability, quantum theory of Raman spectrum, Pure rotational and pure Vibrational Raman spectrum, Electronic spectroscopy : Basic principles, Electronic spectra of diatomic molecule, Franck- Condon principle, application of electronic spectra	Green Board Diagram, Book Bank	Class Test, MCQs, PPT	Sample Questions
	Inorganic chemistry practical	Organic chemistry practical	Physical chemistry practical	B.Sc.- I/II/III	Laboratory Work – I	Laboratory Work – II	Laboratory Work – III	-	Compound test and Chemical Introduction	-
<b>OCTUBER</b>	<b>UNIT-IV</b>	<b>UNIT-IV</b>	<b>UNIT-IV</b>							
	A. Chemistry of lanthanide elements	A. Carboxylic acid	Ionic Equilibria	B.Sc.-II	Electronic structure , oxidation states and ionic radii and lanthanide contraction , complex formation ,	Preparation, structure and bonding, Physical and chemical properties including, activity of carboxylic acids, effects of	Ionization of weak acids and bases, pH scale, common ion effect; dissociation constants of mono protic acid, salt hydrolysis	Green Board Diagram, Book Bank	Class Test, MCQs, PPT	Sample Questions

					occurrence and insulation lanthanides compounds.	substituent's on acid strength, Hell – Volhard Zeilinsky reaction, Mechanism of decarboxylation, Hydroxyacid.	constant, degree of hydrolysis and pH for different salts, Buffer solution, Application of solubility product principle.			
	Chemistry of s and p block elements	Alicyclic hydrocarbons (cycloalkanes)	-	B.Sc.-I	General concept of group relationships and gradation properties, comparative study, salient feature of hydrides, halides, hydrides, oxides and oxyacids of boron, Aluminum, Nitrogen and phosphorus	Nomenclature, preparation by Freunds method, wislicenus method, properties – reactivity of cyclopropane and cyclobutane by comparing with alkanes, stability of cycloalkanes, Baeyer's strain theory, conformational structure of cyclobutane, cyclopentane, cyclohexane,	-	Green Board Diagram, Book Bank	Class Test, MCQs, PPT	Sample Questions
	Bioinorganic chemistry	Synthetic polymers	Electrochemistry – I	B.Sc.-III	Essential and trace element in biological processes, Excess and deficiency of some trace metals, Toxicity of some metal ions (Hg, Pb, Cd and As), metalloporphyrins with special reference to hemoglobin and myoglobin.	A. Addition of chain growth polymerization, free radical vinyl polymerization, Ziegler-Natta polymerization, polyesters, polyimides epoxy resins and polyurethanes, natural and synthetic rubbers.	A. Electrolytic conduction: Specific and equivalent conductance, effect of dilution on conductance, Kohlrausch law, absolute velocity of ions, ionic product of water, conductometric titrations B. Theories of strong electrolyte: limitation of Ostwald's dilution law, weak and strong electrolytes	Notes, Green Board Diagram, Group Discussion, Answers Practices	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes
	Inorganic chemistry	Organic chemistry	Physical chemistry	B.Sc.-I/II/III	Laboratory Work – I	Laboratory Work – II	Laboratory Work – III	-	Compound test and Chemical Introduction	-

	practical	practical	practical							
	<b>UNIT-IV</b>	<b>UNIT-IV</b>	<b>UNIT-IV</b>							
<b>NOVEMBER</b>	B. Chemistry of actinides	B. Carboxylic acid derivatives	Phase Equilibrium	B.Sc.-II	General features and chemistry of actinides, chemistry of separation of Np, Pu and Am from uranium, similarities between the latter actinides and the latter lanthanides.	Structure of acid chlorides, amides and acid anhydrides, Relative stability of acyl derivatives, Physical properties, Mechanism of acid base catalyzed esterification and hydrolysis.	A. Phase rule, component and degree of freedom, derivation of Gibbs phase rule, Clausius – Clapeyron equation and its application to solid- liquid – vapor and solid vapor, limitation of phase rule, application of phase rule to one component system	Green Board Diagram, Book Bank	Class Test, MCQs, PPT	Sample Questions
	Chemistry of s and p block elements	Alicyclic hydrocarbons (cycloalkanes)	-	B.Sc.-I	Borazines, fullerenes, grapheme and silicates, interhalogens and pseudohalogens, chemical properties of the noble gases, principal of extraction of metal	Aromatic hydrocarbons – Aromaticity, Huckels rule, aromatic character of arenef, cyclic carbocations/ carbanions and heterocyclic compound with suitable examples- electrophilic aromatic substitution halogenations, nitration, sulphonation and Friedel Craft, alkylation / acylation with their mechanism.	-	Notes, Green Board Diagram, Group Discussion, Answers Practices	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes
	Bioinorganic chemistry	Synthetic polymers	Electrochemistry – I	B.Sc.-III	Biological role of alkali and alkaline earth metals with special	B. Colour and constitution, classification of Dyes, chemistry of dyes, Congo	B. Elementary ideas of Debye – Huckel – Onsager's equation for	Green Board Diagram, Book Bank	Class Test, MCQs, PPT	Sample Questions

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					reference to $\text{Ca}^{2+}$ and $\text{Mg}^{2+}$	red, Crystal Violet phenolphthalein, Alizarine and Indigo	strong electrolytes, relaxation and electrophoretic effects. C. Migration of ions: Transport number, ionic strength			
	Inorganic chemistry practical	Organic chemistry practical	Physical chemistry practical	B.Sc.-I/II/III	Laboratory Work – I	Laboratory Work – II	Laboratory Work – III	-	Compound test and Chemical Introduction	-
DECEMBER	UNIT-V	UNIT-V	UNIT-V							
	A. Acid bases	Organic compounds of Nitrogen	Photochemistry	B.Sc.-II	Arrhenious ,Bronsted-Lowry , conjugate acids and bases , relative strengths of acids and bases , the LUX-flood , Solvent system and lewis concepts of acids bases.	A. Preparation of nitroalkanes and nitroarenes, Chemical reaction of nitroalkanes, Mechanum of nucleophilic substitution in nitroarenes and their reduction in acidic, neutral and alkaline medium.	Characteristics of electromagnetic radiation, Interaction with matter, difference between thermal and photochemical processes, Lambert-Beer's law and its limitation, physical significance of absorption coefficient.	Green Board Diagram, Book Bank	Class Test, MCQs, PPT	Sample Questions
	a. Mathematical concept for chemist b. computer for chemistry	a . Gaseous state chemistry b. Behaviour of real gases	-	B.Sc.-I	Basic Mathematical concept, logarithmic relations, curve sketching linear graphs, properties of strength line, slope and intercept , functions, differentiation of functions, maximum and minimum, integral, significant	Kinetic molecular model of gas : kinetic gas equation; collision frequency, collision dimeter, mean free path , Maxwell distribution and its use in evaluating molecular velocities, degree of freedom and molecular basis of heat capacities, joule Thomson effect, Liquification of	-	Green Board Diagram, Book Bank	Class Test, MCQs, PPT	Sample Questions

					figures and their applications , Introduction to computer, use of computers programs	gases , behavior of real gases: deviation from ideal gases behavior, compressibility factor (z), temperature for different gases, explaining real gases behavior, calculation of boyle temperature, vander waals isotherms.				
	Hard and Soft acid and bases	A. Infra red spectroscopy B. UV – Visible spectroscopy	Electrochemistry – II	B.Sc.-III	Classification of acids and hard and soft, Pearson's HSAB concept, acid-base strength and hardness and softness	A. Basic principle, IR absorption Band their position and intensity, IR spectra of organic compounds B. Beer lambert's law, effect of conjugation, Types of electronic transition $\lambda_{max}$ , Chromophores and Auxochromes , Intensity of absorption visible spectrum and colour	A.Electrochemical cell and Galvanic cells – reversible cells, conventional representation of electrochemical cells, EMF of the cell and effect of temperature on EMF of the cell, Nernst equation calculation of G,H and S for cell reactions. B. Single electrode potential: standard hydrogen electrode calomel electrode, quinhydrone electrode	Notes, Green Board Diagram, Group Discussion, Answers Practices	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes
	Inorganic chemistry practical	Organic chemistry practical	Physical chemistry practical	B.Sc. - I/II/III	Laboratory Work – I	Laboratory Work – II	Laboratory Work – III	-	Compound test and Chemical Introduction	-
JANUARY	UNIT-V	UNIT-V	UNIT-V							
	B. Non-Aqueous solvents	Organic compounds of Nitrogen	Photochemistry	B.Sc.-II	physical properties of a solvent, Types of solvent and their general characteristics action in non-	B. Reactivity, structure and nomenclature of amines, physical properties, Stereochemistry of amines,	Jablonski diagram depicting various process occurring in the excited state, qualitative description of fluorescence,	Notes, Green Board Diagram, Group Discussion, Answers Practices, Practical	Class Test, MCQs, PPT, Question Bank, Unsolved paper practises	Solve Sample Questions, Preparing Notes, previous year question paper

					aqueous solvent with reference to liquid ammonia and liquid sulphur dioxide, HF, H <sub>2</sub> SO <sub>4</sub>	Separation of mixture of primary, secondary and tertiary amines. Reaction of amines, electrophilic aromatic substitution aryl amines, Azo coupling.	phosphorescence, non radiative processes, photosensitized reaction, photostationary states, chemiluminescence.			
	Inorganic polymers	C. NMR spectroscopy	Electrochemistry – II	B.Sc.-III	Types of inorganic polymers, comparison with organic polymers, synthesis structural aspects and applications of silicones, silicates, phosphazenes and polyphosphate.	Basic principle of proton Magnetic resonance, TMS, chemical shift and factors influencing, spin spin coupling and coupling constant, CMR spectroscopy : principle and applications	C. Concentration cell with and without transport, Liquid – junction potential, application of concentration cell in determining valency of ions D. Corrosion – types, theories and prevention	Green Board Diagram, Book Bank	Class Test, MCQs, PPT	Sample Questions
	Inorganic chemistry practical	Organic chemistry practical	Physical chemistry practical	B.Sc.-I/II/III	Laboratory Work – I	Laboratory Work – II	Laboratory Work – III	-	Compound test and Chemical Introduction	Inorganic chemistry practical
<b>FEBRUARY</b>	<b>UNIT - VI</b>	<b>UNIT - VI</b>								
	A. Liquid state chemistry B. Colloids and surface chemistry	Chemical kinetics / catalysis	-	B.Sc.-I	Intermolecular forces magnitude of inter molecular forces, structure of liquids, viscosity and surface tension, classification, optical kinetics and electrical properties of colloids, Hardy Schulze law, Gold member, Emulsion,	chemical kinetics, Rate of reactions, rate law, rate constant, rate determining step, Zero, first and second order reaction, chain reactions, Arrhenius theory, collision theory, non mathematical concept of transition state theory / catalysis : Homogeneous and	-	Notes, Green Board Diagram, Group Discussion, Answers Practices	Class Test, MCQs, PPT, Question Bank	Solve Sample Questions, Preparing Notes

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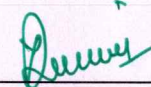
					micells and types, Gel, application of colloids.	heterogeneous catalysis, types of catalyst, enzyme catalyst reaction, Industrial application of catalysis.			
	<b>UNIT-I/II/III</b>	<b>UNIT – I/II/III</b>	<b>UNIT – I/II/III</b>						
	Course Revision	Course Revision	Course Revision	B.Sc.- I/II/III	Practical Exam Preparation			Notes, Green Board Diagram, Group Discussion, Answers Practices, Practical	Class Test, MCQs, PPT, Question Bank, Unsolved paper practises
								Solve Sample Questions, Preparing Notes, previous year question paper	

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