



OFFICE OF THE PRINCIPAL

GOVT. RANI AVANTI BAI LODHI COLLEGE, GHUMKA, DISTT.-RAJNANDGAON (C.G.)

Email - govt.collegeghumka@gmail.com

Pin No. 491444

Website - <http://rabicollege.ac.in>

**//Teaching Plan //**

Class :- B.A. Second Year

Subject :- **Political Thought/ COMPARATIVE GOVERNMENT & POLITICS**

Pepar :- I<sup>st</sup> & II<sup>nd</sup>

Teacher :- Smt. Yogita Banjare

Session :- 2024-25

MONTH	Unit - I	Extra Teaching Activity
July	<b>Pepar -I</b> Plato : Ideal State, Justice Education, Communism Philosopher King Aristotle : State Slavery Citizenship Revolution	Lecture + Chalk & Talk Short notes of Plato & Aristotle Class discussion (Plato vs Aristotle)
	<b>Pepar -II</b> British Constitution Evolution, Salient Features, Executive, Legislature, Judiciary	Chart: UK Parliamentary System Assignment
August	<b>Unit - II</b>	
	<b>Pepar -I</b> Machiavelli : Child of his times Religion & Morality Duties & Conduct of King Hobbes : Social Contract Theory Leviathan — Nature of State	Comparative chart (Machiavelli vs Hobbes) Short assignment
	<b>Pepar -II</b> Constitution of USA Features Executive (President), Legislature (Congress), Judiciary (Supreme Court), Separation of Powers, Checks and Balances	Comparison: UK vs USA Objective Test
September	<b>Unit - II</b>	
	<b>Pepar -I</b> Locke : Social Contract, Natural Rights Rousseau : General Will Rousseau's theory of Freedom & Equality	Class debate : "General Will" Surprise test (Unit 1-2)
	<b>Pepar -II</b> Switzerland Features, Executive, Legislature, Judiciary, Direct Democracy (Referendum, Initiative, Recall)	Table: Direct Democracy Mechanisms Short test
October	<b>Unit - III</b>	
	<b>Pepar -I</b> Bentham : Utilitarianism J.S. Mill : Liberty, Representative Government Amendment in Utilitarianism Green : Political Thoughts Karl Marx : Dialectical materialism, Class struggle	MCQ Test Flowchart : Utilitarianism
November	<b>Pepar -II</b> China, Features, Executive, Legislature, Judiciary, Communist Party	China system diagram Class discussion
	<b>Unit - IV</b>	
	<b>Pepar -I</b> Idealism Individualism Liberalism : Features Socialism : Nature, Principles Fascism : Features & Criticism	Group discussion Previous Year Question practice
December	<b>Pepar -II</b> Comparative Politics Meaning & Definition, System Theory of David Easton Structural-Functional Approach (Almond)	Diagram: Easton Model MCQ test
	<b>Unit - V</b>	
December	<b>Pepar -I</b> Manu & Kautilya : Saptang, Rajniti, Rajamandal Gandhi : Truth, Non-violence, Satyagraha Ambedkar : Social Democracy, Constitution Deendayal Upadhyaya : Integral Humanism	Seminar (Indian Thinkers) Unit-5 Assignment

	<b><u>Prepar -II Political Development</u></b> Political Socialisation, Political Culture	Assignment : Political Culture Practice questions
<b>January</b>	Revision + Tests, Unit- 1 to Unit-5 Revision, Previous Year Question, Doubt ClassUnit- 1 to 5 Full Revision Written test, Model Question Practice, Doubt clearing	
<b>February</b>	Exam Preparation, Model Test, Expected Questions Final Revision	

Smt. Yogita Banjare  
Guest Lecturer Political Science

  
(Dr. Satyadev Tripathi)  
Principal  
Govt. Rani Avanti Bai Lodhi College  
Ghumka, Distt.-Rajnandgaon (C.G.)



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**//Teaching Plan //**

Subject : - Botany  
 Class :- B.Sc. First Semester  
 Teacher :- Dewanad Bandhe  
 Session :- 2024-25

MONTH	Week	Unit – I : Elementary Botany – Introduction		Teaching Activity
		Week	Topic	
July-August	1st Week	<b>Basics of Plant Science: Differences and resemblances between, living and nonliving plants and animals, plant and animal cell.</b>		Lecture, board explanation PPT
	2nd Week	<b>Concept of prokaryotes and eukaryotes Important features of thallophyta</b>		Class discussion
	3rd Week	<b>Bryophyta, Pteridophyta,</b>		Lecture + Q&A
	4th Week	<b>Unit – II</b> <b>Week Topic - Branches of botany</b>		Practical Laboratory Work
August-September	1st Week	<b>Gymnosperm and Angiosperm</b>		Class discussion
	2nd Week	<b>General idea, features, and significance; Anatomy, Cytology</b>		Lecture, board explanation PPT
	3rd Week	<b>Economic Botany, Ethnobotany, Forestry, Genetics, Histology, Microbiology, Paleobotany Phytochemistry, Phytopathology Plant Biotechnology ,Plant breeding</b>		Lecture + Q&A
	4th Week	<b>Study of thallus structure of Riccia and Marchantia</b>		Practical Laboratory Work
September-October		<b>Unit – II</b> <b>Week Topic - Branches of botany</b>		
	1st Week	<b>Plant ecology, Plant morphology Plant physiology, Plant Taxonomy</b>		Lecture, board explanation
	2nd Week	<b>Study of internal structure of root and stem</b>		Practical Laboratory Work
		<b>Unit – III</b> <b>Week Topic - Plants for human welfare</b>		
	3rd Week	<b>Plants for human welfare Plant Resources for Rural livelihood</b>		Class discussion
	4th Week	<b>Mahua, Tendu patta Bamboo and Firewood Ethnobotany in India</b>		Lecture + Q&A
	1st Week	<b>Methods to study Ethnobotany, Applications of Ethnobotany</b>		Lecture, board explanation PPT
	2nd Week	<b>ethnomedicinal plants and ethnogeology</b>		Class discussion
	3rd Week	<b>Application of plant products for certain diseases- Cough and cold</b>		Lecture + Q&A
	4th Week	<b>Jaundice, Infertility, Diabetes, Blood pressure and Skin diseases</b>		PPT
		<b>Unit – IV</b> <b>Week Topic - Ancient Indian Botany</b>		
	1st Week	<b>Indigenous Medicinal Sciences, Definition and Scope-Ayurveda History, origin</b>		Lecture, board explanation PPT
October-November	2nd Week	<b>panchamahabutas, saptadhatu and tridosha concepts, Rasayana Unani: History, concept. Charaksamhita. Ancient and modern</b>		PPT

	3rd Week	plants used in ayurvedic treatments, Siddha: Origin of Siddha medicinal system, Basis of Siddha system, plants need in Siddha medicine	Class discussion Lecture + Q&A
	4th Week	Study of medicinal plants of college campus , cough and cold	Practical Laboratory Work
November-December	1st Week	Microscopic study of prokaryotic (Bacteria) and eukaryotic cell (algae and fungi)	Practical Laboratory Work
	2nd Week	Botanists and their contributions Chank, Jagdish Chandra Bose, H.P Pal, Desikachary, K.C. Mehta M.S. Swaminathan etc.	
	3rd Week	Final Revision, Question Bank Practice	

  
 Dewanand Bandhe  
 Guest Lecturer Botany

  
 (Dr. Satyadev Tripathi)  
 Principal

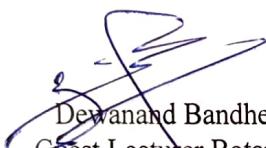
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**//Teaching Plan //**

Subject :- Botany  
 Class :- B.Sc. Second Semester  
 Teacher :- Dewanad Bandhe  
 Session :- 2024-25

MONTH	Week	Unit – I : Microbes and Thallophyta- Introduction			Teaching Activity
		Week	Topic	Viruses	
January-February	1st Week	Viruses: general characteristics, nature, structure and nomenclature			Lecture, board explanation PPT
	2nd Week	Bacteriophages and TMV Lytic and Lysogenic cycles transmission and replication of viruses, Symptoms of viral diseases on plants			Class discussion
	3rd Week	important plant diseases, viroid, prions. Actinomycetes: general characteristics Structure, reproduction and economic importance Mycoplasma, Phytoplasma, general characteristics, structure, reproduction and their economic uses			Lecture + Q&A
	4th Week	Collection of viral/Bacterial/Fungal infected plants, study of plant disease symptoms caused by of viral/Bacterial/Fungal/Mycoplasma			Practical Laboratory Work
February-March		Unit – II			
		Week Topic - Bacteria			
	1st Week	History, general character, classification and morphology, Gram positive and Gram-negative bacteria, structure of bacteria shape, size flagella and ultra structure of bacterial cell			Class discussion
	2nd Week	Bacterial Growth curve, factors affecting growth of microbes; sporulation, reproduction, recombination in bacteria Transformation Conjugation and Transduction, and Economic importance			Lecture, board explanation PPT
	3rd Week	Cyanobacteria General characteristics, morphology, Heterocyst, cell structure of Cyanobacteria, reproduction and economic importance of Bacteria.			Lecture + Q&A
March-April	4th Week	Isolation of bacteria Gram's Staining			Practical Laboratory Work
		Unit – III			
		Week Topic - Phycology			
	1st Week	Phycology: General characteristic features of Algae. Algae in diversified habitat, Salient features, occurrence, classification and range of thallus organization.			Lecture, board explanation
	2nd Week	Prominent pigments found in Algae. Reproduction classification, general character and life cycle of Volvox, Oedogonium, Chara			Lecture + Q&A
	3rd Week	Vaucheria, Ectocarpus and Polysiphonia. Economic importance of algae Role of algae in soil fertility, algae as biofertilizer, blue green algae and nitrogen fixation. Symbiosis; algal products-Agar, biofuel			Class discussion
	4th Week	Slide Preparation and Staining of algae Volvox,			Practical Laboratory Work

		<b>Oedogonium and Chara Vaucheria Ectocarpus Polysiphonia</b>	
		<b>Unit – IV</b> <b>Week Topic - Mycology</b>	
<b>April- May</b>	<b>1st Week</b>	<b>Mycology, Mushroom Cultivation, Lichenology &amp; Mycorrhiza</b>	<b>Lecture, board explanation PPT</b>
	<b>2nd Week</b>	<b>General characteristic features of Fungi, Economic importance and Classification of Fungi, Nutrition, Heterothallism</b>	<b>PPT</b>
	<b>3rd Week</b>	<b>Physiological specialization, Heterokaryosis &amp; Parasexuality in Fungi. Fungi as biocontrol agent. Classification, general character and life cycle of Mucor</b>	<b>Class discussion Lecture + Q&amp;A</b>
	<b>4th Week</b>	<b>Slide Preparation and Staining of fungi Mucor Phytophrhora, Penicillium, Peziza, Puccinia</b>	<b>Practical Laboratory Work</b>
		<b>Unit – IV</b>	
<b>May-Jun</b>	<b>1st Week</b>	<b>Phytophthora Penicillium, Peziza, Ustilago, Puccinia, Agaricus; Colletotrichum, Alternaria. Edible Mushroom- Button and Oyster mushroom and their cultivation. General account of lichens. General account of Mycorrhiza.</b>	<b>PPT</b>
	<b>2nd Week</b>	<b>Study of Button and Oyster Mushroom</b>	<b>Practical Laboratory Work</b>

  
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Subject : - Botany  
Class :- B.Sc. Second Year  
Teacher :- Dewanad Bandhe  
Session :- 2024-25

MONTH	Unit - I	Extra Teaching Activity
July	<p><b>Pepar - I</b> Bentham and Hooker system of classification. Binomial Nomenclature, International Code of Nomenclature for Algae, Fungi, and plants (IUCN). Typification, numerical Taxonomy and chemotaxonomy.</p> <p><b>Pepar - II</b> Introduction and scope of ecology, environmental and ecological factors, Soil formation and soil profile, Liebig's law of minimum, Shelford's law of tolerance, morphological and anatomical adaptations in hydrophytes, xerophytes and epiphytes.</p>	Lecture, Board, Discussion + PPT
August	<p><b>Unit - I</b></p> <p><b>Pepar - I</b> Preservation of Plant material and Herbarium techniques. Important botanical gardens and herbaria of India, Kew Botanical garden, England.</p> <p><b>Pepar - II</b> Population and community characteristics, Raunkiaer's life forms, population interactions (e.g. Symbiosis, Amensalism etc.), succession, ecotone and edge effect, ecological niches, ecotypes, eads, keystone species</p> <p>Concept of ecosystem, trophic levels, flow of energy in ecosystem, food chain and food web, concept of ecological pyramids</p> <p>Biogeochemical cycles: carbon cycle, nitrogen cycle and phosphorus cycle</p>	Lecture, Examples, Class Interaction Ability to analyze global power behavior
September	<p><b>Unit - II</b></p> <p><b>Pepar - I</b> Systematic position, distinguishing characters and economic importance of the following families, Ranunculaceae, Magnoliaceae, Brassicaceae, Rosaceae, Papaveraceae, Caryophyllaceae, Rutaceae, Cucurbitaceae, Apiaceae, Rubiaceae</p> <p><b>Pepar - II</b> Plant water relations: Diffusion, permeability, osmosis, imbibitions, plasmolysis, osmotic potential and water potential, Types of soil water, water holding capacity, wilting, Absorption of water, theories of Ascent of sap, Mineral nutrition and absorption, Deficiency symptoms, Transpiration, stomatal movement, significance of transpiration, Factors affecting transpiration, guttation.</p>	Lecture, PPT, Case Studies Knowledge of major diplomatic mechanisms
October	<p><b>Unit - II</b></p> <p><b>Pepar - I</b> Apocynaceae, Asclepiadaceae, Solanaceae, Malvaceae, Convolvulaceae, Orchidaceae,</p>	PPT, Group Discussion Understanding global contemporary problems

	Acanthaceae, verbenaceae, Lamiaceae, Asteraceae, Fabaceae, Euphorbiaceae, Poaceae and Liliaceae. <b>Pepar -II</b> Photosynthesis: Photosynthetic apparatus and pigments, light reaction mechanism of ATP synthesis. C3, C4 CAM pathway of carbon reduction, photorespiration, factors affecting photosynthesis.	
November	<b>Unit - III</b> <b>Pepar -I</b> Economic Botany: Botanical name, family, part used and uses of the following economically important plants, fiber yielding plants: Cotton, jute, sun, hemp, coir. Timber yielding plants: Sal, Teak, Shisham and Pine. Medicinal plants: Kalmegh, Ashwangandha, Ghritkumari, Giloy, Brahmi, sarpagandha, ---of medicinal plants of C.G. <b>Pepar -II</b> Respiration: Aerobic and anaerobic respiration, Glycolysis, Kreb's cycle, factors affecting respiration, R.Q.	Lecture, PPT + Practical
	<b>Unit - III</b> <b>Pepar -I</b> Food plants: Pearl millet, Buck of wheat, Sorghum, Soyabean, gram, Ground nut, Sugarcane and Potato. Fruit plants: Pear, Peach, Litchi. Spices: Cinnamon, Turmeric, Ginger, Asafoetida and Cumin. Beverages: Tea, Coffee. Rubber Cultivation of important flowers: Chrysanthemum, Dahelia, Biodiesel plants Jatropha, Pongamia. Ethnobotany in context of Chhattisgarh. <b>Pepar -II</b> Plant growth hormones: Auxin, Gibberellin, Cytokinin, Ethylene and Abscissic acid. Physiology of flowering, Florigen concept	PPT, Discussion Analyze India's global role
December	<b>Unit - IV</b> <b>Pepar -I</b> Plant Anatomy: Root and shoot apical meristems theories of root and shoot apex organization, permanent tissues, anatomy of root, stem and leaf of dicot and monocot, secondary growth in root and stem, Anatomical anomalies in the primary structure of stems (Nyctanthes, Boerhaavia, Casuarina), Anamolous secondary growth in Dracaena, Bignonia, Laptadenia. <b>Pepar -II</b> Photoperiodism and Vernalization. Seed dormancy and germination, plant movement.	PPT + Practical
	<b>Unit - V</b> <b>Pepar -I</b> Embryology: Flower as a reproductive organ, anther, microsporogenesis, types of ovules, megasporogenesis, development of male and female gametophyte, pollination, mechanisms, self incompatibility, fertilization, endosperm, embryo, polyembryony, apomixes and parthenocarpy. <b>Pepar -II</b>	
	<b>Practical Work</b>	<b>Practical Work</b>

~~Dewanand Bandhe~~  
Guest Lecturer Botany

  
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Principal

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**//Teaching Plan //**

Class :- B.COM. Final Year

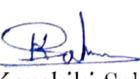
Subject :- **Indirect Tax with GST / Management Accounting**

Pepar :- I<sup>st</sup> & II<sup>nd</sup>

Teacher :- Kaushiki Sahu

Session :- 2024-25

MONTH	Unit - I	Extra Teaching Activity
July	<b>Pepar -I</b> Indirect tax- introduction Custom duty- introduction and nature, important definition, valuation rules.	Lecture, board explanation Class discussion Numerical Question Solution
	<b>Pepar -II</b> Management accounting : introduction, meaning, definition, financial statements, analysis and interpretation of financial statement.	
August	<b>Unit - II</b>	Lecture , board explanation Class discussion, Example Numerical Question Solution
	<b>Pepar -I</b> Chhattisgarh excise duty	
	<b>Pepar -II</b> ratio analysis.	
September	<b>Unit - II</b>	Lecture , board explanation Class discussion, Example Numerical Question Solution
	<b>Pepar -I</b> central excise duty	
	<b>Pepar -II</b> fund flow statement ,cash flow statement.	
October	<b>Unit - III</b>	Lecture , board explanation Class discussion, Example
	<b>Pepar -I</b> cgst / sgst, input tax credit (ITC)	Numerical Question Solution
	<b>Pepar -II</b> absorption costing and marginal costing, cost -volume- profit analysis (break -even- point).	
November	<b>Unit - IV</b>	Lecture , board explanation Class discussion, Example
	<b>Pepar -I</b> Igst rule ,definition	Numerical Question Solution
	<b>Pepar -II</b> budget and budgetary control, fixed and flexible budgeting.	
December	<b>Unit - V</b>	Lecture , board explanation Class discussion, Example
	<b>Pepar -I</b> CG VAT, CT VAT	Numerical Question Solution
	<b>Pepar -II</b> standard costing variance analysis material and labour variance (theory)	
January	<b>Pepar -I</b> authorities: power and duties, service taxnumerical	Lecture , board explanation Class discussion, Example
	<b>Pepar -II</b> Numerical questions of variance analysis.	Numerical Question Solution
February	Revision	Exam Preparation.

  
Kaushiki Sahu  
JBS Commerce

  
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**//Teaching Plan //**

Class :- B.COM. Second Year

Subject :- Cost Accounting

Teacher :- Kaushiki Sahu

Session :- 2024-25

MONTH	Unit - I	Teaching Activity
July	Concept and nature of cost accounting	Lecture, board explanation
August	Material cost, Meaning, Definition, Nature	Class discussion
September	Unit - II	
	employee cost and overhead, overhead	Lecture, board explanation, Class discussion, Example Numerical Question
October	Unit - III	
	unit output costing	Lecture, board explanation, Class discussion, Example Numerical Question
November	Unit - IV	
	methods of costing: contract costing	Lecture, board explanation, Class discussion, Example Numerical Question
December	process costing	Lecture, board explanation, Class discussion, Example Numerical Question
January	Unit - V	
	operating costing/ service costing, activity based costing (ABC)	Lecture, board explanation, Class discussion, Example Numerical Question
February	Revision	exam preparation

Kaushiki Sahu

JBS Teacher Commerce

(Dr. Satyadev Tripathi)

Principal

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### TEACHING PLAN

Class: B.Sc. First Semester  
 Subject: zoology  
 Session: 2024-25

MONTH	WEEK	UNIT- I: Origin of life	Teaching activity
July	1 <sup>st</sup>	Ancient theory of origin of life	Video clip, PPT
	2 <sup>nd</sup>	Modern theory of origin of life	
	3 <sup>rd</sup>	Biochemical origin of life	
	4 <sup>th</sup>	Evolution of modes of nutrition	
August		UNIT-II: Systematics & unique attributes of invertebrates with special reference to coelentrata	Lecture, board explanation, Q&A
	1 <sup>st</sup>	Introduction of invertebrate and vertebrate	
	2 <sup>nd</sup>	Nomenclature system	
	3 <sup>rd</sup>	Meaning, structure, skeleton of corals	
	4 <sup>th</sup>	Examples of corals	
September		UNIT-II: Systematics & unique attributes of vertebrates with special reference to Mollusca and pisces	Lecture, discussion, PPT, Q&A
	1 <sup>st</sup>	Mollusca	
	2 <sup>nd</sup>	Torsion and detorsion in mollusca	
	3 <sup>rd</sup>	Pisces	
	4 <sup>th</sup>	Migration and parental care in fish	
October		UNIT-III: Systematics & unique attributes of vertebrates with special reference to amphibian & reptiles	Lecture, discussion, PPT, Q&A
	1 <sup>st</sup>	Amphibia	
	2 <sup>nd</sup>	Parental care in amphibia	
	3 <sup>rd</sup>	Reptiles	
	4 <sup>th</sup>	Venomous and non-venomous snakes	
November		UNIT- IV: Systematics & unique attributes of vertebrates with special reference to aves and mammals	PPT, Group discussion, Q&A
	1 <sup>st</sup>	Birds	
	2 <sup>nd</sup>	Monotremes mammals	
	3 <sup>rd</sup>	Aquatic mammals	
	4 <sup>th</sup>	Flying mammals	
December	1 <sup>st</sup>	Revision	Discussion
	2 <sup>nd</sup>	Model question answer practice	
	3 <sup>rd</sup>	Internal assessment	

Miss Yuvrani Sahu  
 Guest Lecturer Zoology

(Dr. Satyadev Tripathi)  
 Principal

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### TEACHING PLAN

Class: B.Sc. Second Semester  
 Subject: Zoology  
 Session: 2024-25

MONTH	WEEK	UNIT- I: Cell structure, cell membrane and extra nuclear cell organelles	Teaching activity
July	1 <sup>st</sup>	Structure of cell and their organization	Video clip, PPT
	2 <sup>nd</sup>	Plasma membrane structure and function	
	3 <sup>rd</sup>	Intracellular cell organelles	
	4 <sup>th</sup>	Extracellular structure and cell interaction	
August		<b>UNIT-II: Extra nuclear cell organelles</b>	Lecture, board explanation, Q&A
	1 <sup>st</sup>	Mitochondria: origin, structure, function	
	2 <sup>nd</sup>	Lysosome: origin, structure, function	
	3 <sup>rd</sup>	Ribosome: origin, structure, function	
	4 <sup>th</sup>	Peroxisome: origin, structure, function	
September		<b>UNIT-III: Nuclear organization and cell division</b>	Lecture, discussion, PPT, Q&A
	1 <sup>st</sup>	Nucleus, chromatin organization	
	2 <sup>nd</sup>	Chromosome and DNA organization	
	3 <sup>rd</sup>	Mitosis (cell division in somatic cell)	
	4 <sup>th</sup>	Meiosis (cell division in germ cells)	
October		<b>UNIT-IV: Introduction of tissue</b>	Lecture, discussion, PPT, Q&A
	1 <sup>st</sup>	Tissue, classification, structure	
	2 <sup>nd</sup>	Origin and function of tissue	
	3 <sup>rd</sup>	Cell specialization and differentiation	
	4 <sup>th</sup>	Blood: plasma, blood cells, lymph	
November		<b>UNIT-IV: Introduction of tissue</b>	PPT, Group discussion, Q&A
	1 <sup>st</sup>	Bone marrow and haemopoiesis	
	2 <sup>nd</sup>	Spleen, Intercellular communication	
	3 <sup>rd</sup>	Muscular tissue	
	4 <sup>th</sup>	Muscle- tendon attachment	
December	1 <sup>st</sup>	Revision	Discussion
	2 <sup>nd</sup>	Model question answer practice	
	3 <sup>rd</sup>	Internal assessment	

Miss Yuvarani Sahu  
 Guest Lecturer Zoology

(Dr. Satyadev Tripathi)  
 Principal

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**TEACHING PLAN**

Class: B.Sc. Final Year

Subject: zoology

Paper: I & II

Session: 2024-25

MONTH	UNIT- I	Extra teaching activity
July	Paper –I Animal behaviour	Video clip, PPT
	Paper –II Microbiology	
August	UNIT- I	Video clip, PPT
	Paper- I pattern of behaviour	
	Paper –II Parasitology	
September	UNIT-II	Lecture, discussion
	Paper-I Innate, learning and socio-biology	
	Paper –II Immunology	
October	UNIT-III	Discussion, field visit
	Paper- I Chronobiology	
	Paper –II Aquaculture	
November	UNIT- IV	PPT, Group discussion
	Paper- I Ecology, ecosystem, and population ecology	
	Paper –II Apiculture, Sericulture, Lac culture	
December	Unit - V	Presentation, discussion
	Paper –I Biotic community, environmental degradation	
	Paper –II Dairy management, Poultry farming and Vermicomposting	
January	Revision, Assignment, Internal test	Class test, revision
February	Final revision, Question bank practice	Practice exam paper

  
Miss Yuvrani Sahu

Guest Lecturer Zoology

  
(Dr. Satyadev Tripathi)

Principal

Govt. Rani Avanti Bai Lodhi College,  
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**TEACHING PLAN**

Class: B.Com. Second Semester

Subject: Business Environment

Session: 2024-25

MONTH	WEEK	UNIT- I:	Teaching activity
<b>January</b>	3 <sup>rd</sup>	<b>Business environment:</b> type of environment	Lecture
	4 <sup>th</sup>	Competitive structure of industry	
<b>February</b>		<b>UNIT- I</b>	Lecture, board explanation, Q&A
	1 <sup>st</sup>	Scope of business	
		<b>UNIT-II</b>	
	2 <sup>nd</sup>	Economic problem of growth: inflation	
	3 <sup>rd</sup>	Parallel economy, industrial sickness	
<b>March</b>	4 <sup>th</sup>	Economic factors of growth	Lecture, discussion, PPT, Q&A
		<b>UNIT-III</b>	
	1 <sup>st</sup>	Government policies: export import policy, monetary and fiscal policy	
	2 <sup>nd</sup>	Privatization, liberalization, globalization	
	3 <sup>rd</sup>	Demonetization, disinvestment	
<b>April</b>	4 <sup>th</sup>	A brief introduction of Indian economic planning	Lecture, discussion, PPT, Q&A
		<b>UNIT-IV:</b>	
	1 <sup>st</sup>	International environment: trends in world trade & the problems of developing countries	
	2 <sup>nd</sup>	Foreign trade & economic growth	
	3 <sup>rd</sup>	International economic groups: GATT, WTO, UNCTAD, World Bank, IMF	
<b>May</b>	4 <sup>th</sup>	TRIPS, TRIMS Regional trade agreement: European Union (EU), ASEAN, SAARC, NAFTA	Exam preparation
	1 <sup>st</sup>	Revision	
	2 <sup>nd</sup>	Model question practice	

Miss Kaushiki Sahu  
JBS TEACHER (COMMERCE)

(Dr. Satyadev Tripathi  
Principal

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### TEACHING PLAN

Class: B.Com. First Semester  
Subject: Business Law  
Session: 2024-25

MONTH	WEEK	UNIT	Teaching activity
July	1 <sup>st</sup>	<b>UNIT- I:</b> Business law- an introduction	Lecture, board, class discussion, Q&A
	2 <sup>nd</sup>	Indian contract act 1872	
	3 <sup>rd</sup>	Offer and acceptance, capacity of parties to contract	
	4 <sup>th</sup>	Free consent, consideration	
August		<b>UNIT-I:</b>	Lecture, board, class discussion, Q&A
	1 <sup>st</sup>	Agreement, declared void, performance and discharge of contract, remedy for breach of contract	
		<b>UNIT-II:</b>	
	2 <sup>nd</sup>	Special contract: indemnity and guarantee	
	3 <sup>rd</sup>	Bailment and pledge, law of agency- meaning	
	4 <sup>th</sup>	Modes of creating agency, types of agent	
September		<b>UNIT-II:</b>	Lecture, board, class discussion, Q&A
	1 <sup>st</sup>	Personal liability of an agent and termination of agency	
	2 <sup>nd</sup>	Internal assessment	
		<b>UNIT-III:</b>	
	3 <sup>rd</sup>	Sale of goods act (1930)- definition, sale and agreement to sale	
	4 <sup>th</sup>	Types of goods, conditions and warranties	
October		<b>UNIT-III:</b>	Lecture, board, class discussion, Q&A
	1 <sup>st</sup>	Sale by non-owners	
	2 <sup>nd</sup>	Unpaid seller	
	3 <sup>rd</sup>	CIF, FOB and Ex-ship contracts	
	4 <sup>th</sup>	The consumer protection act 2019	
November		<b>UNIT-IV:</b>	Lecture, board, class discussion, Q&A
	1 <sup>st</sup>	Negotiable instrument act 1881: definition, feature	
	2 <sup>nd</sup>	Promissory note, bill of exchange	
	3 <sup>rd</sup>	Cheque, holder and holder in the due course	
	4 <sup>th</sup>	Internal assessment	

<b>December</b>	1 <sup>st</sup>	Crossing of a cheque, types of crossing	Lecture, board, class discussion, Q&A
	2 <sup>nd</sup>	Negotiation, dishonor and discharge of negotiable instruments	
	3 <sup>rd</sup>	Limited liabilities partnership act 2008	
	4 <sup>th</sup>	Revision	Annual exam preparation

Rani  
**Miss Kaushiki Sahu**  
**JBS Teacher Commerce**

Dr. Satyadev Tripathi  
(Dr. Satyadev Tripathi)  
**Principal**  
**Govt. Rani Avanti Bai Lodhi College,**  
**Ghumka, Distt.- Rajnandgaon (C.G.)**



कार्यालय प्राचार्य शासकीय रानी अवंतीबाई लोधी महाविद्यालय,

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### //Teaching Plan //

Subject : - Political Science

Class : - B.A. First Semester

Teacher : - Smt. Yogita Banjare

Session : - 2024-25

MONTH	Week	Unit – I : Political Science – Introduction			Teaching Activity
		Week	Topic	Teaching Activity	
July	1st Week		Meaning, nature & scope of Political Science		Lecture, board explanation
	2nd Week		Key concepts – Power, Authority, Legitimacy		Class discussion
	3rd Week		Sovereignty – types and theories		Lecture + Q&A
	4th Week		Classical thinkers – Plato, Aristotle		Notes + chart
August		Unit – II			
		Week Topic - State			
	1st Week		Modern approaches in Political Science		Class discussion
	2nd Week		Revision of Unit-I & Internal Assessment-I		Lecture, board explanation
	3rd Week		Meaning, nature and development of State		Lecture + Q&A
September			Elements of State – Population, Territory, Government, Sovereignty		Notes + chart
		Unit – II			
		Week Topic - State			
	1st Week		Theories of origin of State – Divine, Force theory		Lecture, board explanation
	2nd Week		Social Contract Theory – Hobbes, Locke, Rousseau		Class discussion
October			Evolutionary Theory		Notes + chart
			Revision of Unit-II & Internal Assessment-II		Lecture + Q&A
		Unit – III			
		Week Topic - Key Concepts			
November	1st Week		Sovereignty – meaning, types		Lecture, board explanation
	2nd Week		Law – meaning, sources, importance		Class discussion
	3rd Week		Rights – meaning, types, theories		Lecture + Q&A
	4th Week		Liberty – meaning, types, positive & negative liberty		Notes + chart
December		Unit – IV			
		Week Topic - State and Governance			
	1st Week		Forms of Government – Unitary & Federal		Lecture, board explanation
	2nd Week		Separation of Powers		Notes + chart
	3rd Week		Concepts of Government – Democracy, Liberalism		Class discussion
	4th Week		Public Administration & Policy		Lecture + Q&A

Smt. Yogita Banjare

Guest Lecturer Political Science

(Dr. Satyadev Tripathi)

Principal

गोपनीय अवंतीबाई लोधी महाविद्यालय  
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**//Teaching Plan //**

Class :- B.A. Final Year

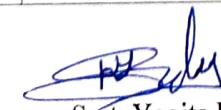
Subject :- International Politics / Public Administration

Pepar :- I<sup>st</sup> & II<sup>nd</sup>

Teacher :- Smt. Yogita Banjare

Session :- 2024-25

MONTH	Unit - I	Extra Teaching Activity
July	<b>Pepar -I</b> Meaning, nature, scope of International Politics; Approaches – Realism, Idealism, Neorealist; World System Theory; Centre–Periphery Theory	Lecture, Board, Discussion
	<b>Pepar -II</b> Definition, nature, scope; Public & Private Administration; NPA; Comparative Administration	
August	<b>Unit - I</b>	Lecture, Examples, Class Interaction Ability to analyze global power behavior
	<b>Pepar -I</b> National Interest, National Power – Meaning & Elements; Non-state Actors & their role	
	<b>Pepar -II</b> Approaches of study; Development as a discipline	
September	<b>Unit - II</b>	Lecture, PPT, Case Studies Knowledge of major diplomatic mechanisms
	<b>Pepar -I</b> System Theory, Game Theory, Decision-making theory, Bargaining; Cold War; Diplomacy; Balance of Power; Collective Security; Disarmament & Nuclear issues	
	<b>Pepar -II</b> Principles of Organization, POSDCORB, Hierarchy, Span of Control, Unity of Command	
October	<b>Unit - III</b>	PPT, Group Discussion Understanding global contemporary problems
	<b>Pepar -I</b> Terrorism, Palestine issue, Environment, Human Rights, Globalization, International Organizations	
	<b>Pepar -II</b> Public Corporation, UPSC, PSC, Recruitment, Training, Promotion	
November	<b>Unit - IV</b>	Lecture, Map work Knowledge of India's regional relations
	<b>Pepar -I</b> India's Foreign Policy; Non-Alignment; India & SAARC Countries	
	<b>Pepar -II</b> Development Admin; Riggs Model; Good Governance; e-Governance; Budget; Administrative Control	
December	<b>Unit - V</b>	PPT, Discussion Analyze India's global role
	<b>Pepar -I</b> India & major powers; QUAD; China's expansionism	
	<b>Pepar -II</b> Corruption; Lokpal, Lokayukta, CVC, RTI; Public Service Guarantee Act (CG); Public Relations	
January	Revision, Assignments, Internal Test	Test, Revision Improve conceptual clarity
February	Final Revision, Question Bank Practice	Practice Exam preparation



Smt. Yogita Banjare  
Guest Lecturer Political Science



(Dr. Satyadev Tripathi)  
Principal  
Govt. Rani Avanti Bai Lodhi College  
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# Govt. Rani Avantibai Lodhi College, Ghumka, Rajnandgaon (C.G)

## // Teaching Plan //

### Department of Mathematics

#### B.Sc I Semester

#### Elementary Calculus

Month	Week	Syllabus Topic
August	Week 1	
	Week 2	
	Week 3	Unit 1- Contribution an Biography of Indian Mathematicians.
	Week 4	Bodhayan, Apasthamb, Katyayan, Mahairacharya, Bhaskracharya.
September		
	Week 1	Convergence of Sequences, Limit & Continuity, Differentiability.
	Week 2	Coergence of Sequences & Series, Elementary Differentiation.
	Week 3	Unit- 2 Rolle's theorem, Lagrange's & Cauchy's Mean Theorems.
	Week 4	Successive Dirementiation and Leibnitz's Theorem.
Octuber		
	Week 1	Maclaurin's & Taylor's Theorem for Expantion of a function.
	Week 2	Successive Dirementiation and Leibnitz's Theorem
	Week 3	Maclaurin's & Taylor's Theorem for Expantion of a function.
	Week 4	Unit 3- Curvature, Asymptotes of General Algebraic Curves.
November		
	Week 1	Asymptotes, Parallel asymptotes, Asymptotes parallel to axes.
	Week 2	Concavity and Convexity, Points of Inflexion & Multiple Points
	Week 3	Tracing of Curves, Tracing of Cartesian, Polar and Parametric Curves.
	Week 4	Unit – 4 Integration: Elementary integration
December	Week 1	Integration of Transcendental function
	Week 2	Reduction Formulae,
	Week 3	Definite Integral
	Week 4	Revision

  
**Mrs. Som Kumari**  
(Guest Lecturer)  
Department of Mathematics

  
**Dr. Satyadev Tripathi**  
(Principal)  
Govt. Rani Avantibai Lodhi College,  
Ghumka Rajnandgaon



# Govt. Rani Avantibai Lodhi College, Ghumka, Rajnandgaon (C.G)

**// Teaching Plan //**  
**Department of Mathematics**  
**B.Sc II Semester**  
**Algebra**

Month	Week	Syllabus Topics
January	Week 1	Unit 1 Metrix Algebra: Elementary operation of matrices, Invers of a matrix, special types of matrices: Transpose of a matrix,
	Week 2	Symmetric and skew symmetric matrices, Hermitian and skew hermitian matrices, rank of matrices, Echelon form of matrices.
	Week 3	Normal form, Application of matrices to a system of linear equation, Eigen value and Eigen vectors, relation between eigen value & eigen vector.
	Week 4	Process of finding eigen value and eigen vectors, Cayley Hamilton theorem, & its use in finding inverse of matrix.
February	Week 1	Unit II Set Theory & Function : Set, subset and the law of set theory
	Week 2	Ven diagram, Finite set & counting principle, Empty set, power set.
	Week 3	Generalized union and intersection
	Week 4	Relation and function: product set and type of relation, equivalence Relation, inverse function, modular arithmetic
March	Week 1	Unit III Theory of Equation: Symmetric function of the roots of an equation. Root of a multiplicity synthetic division, GCD.
	Week 2	Transformation of equation, Descarte's rule of sign.
	Week 3	Solution of cubic equation, Biquadratic equation.
	Week 4	Unit IV Group Theory: Definition & properties of a group, abelian
April	Week 1	Abelian group, subgroup, coset, lagrange's theorem & its application
	Week 2	lagrange's theorem & its application
	Week 3	Normal Subgroup and their properties.
	Week 4	Simple group, Factors group
May	Week 1	Revision Empty Set, Power Set.
	Week 2	Revision Relation, Equivalence relation.
	Week 3	Revision Group Theory.
	Week 4	Revision Lagrange's Theorem

  
**Mrs. Som Kumari**  
(Guest Lecturer)  
Department of Mathematics

  
**Dr. Satyadev Tripathi**  
(Principal)  
Govt. Rani Avantibai Lodhi College,  
Ghumka Rajnandgaon



# Govt. Rani Avantibai Lodhi College, Ghumka, Rajnandgaon (C.G)

**// Teaching Plan //**  
**Department of Mathematics**  
**B.Sc II Year**

Month	Syllabus Topic
August	Unit 1(Paper I)-Basic concept of ODE. Order and degree of a differential equation. Differential equation of first order and first degree. Homogeneous equation, Linear differential equation, exact differential equation , integrating factor, First order higher degree equation .Picard's method of successive approximation s and statement of Picard's theorem for the existence and uniqueness of the solution of the first order differential equation.
September	Unit1 & 2(Paper II)-The set of the real number R as an ordered field.Least upper bound property of R.Metric Property and completeness of R.Archimedean property of R. Dense subset , Neighbourhood of a point in R. Open set, closed set and perfect set, connected and compact subset of R. Heine-Borel theorem. Convergence of sequence in R: Bounded and monotonic sequences. Convergent sequences and its limits. Limit theorems, Monotone convergence theorem, Subsequences, Bolzano- Weierstrass theorem, limit superior and limit inferior, Cauchy sequence and convergence criterion.
Octubere	Unit 3 &4(Paper I)-Second order linear differential equation-statement of existence and uniqueness theorem for the solution of linear differential equation.General theory of linear differential equation of second order, homogeneous linear ordinary differential equation of second order, constant coefficients , Euler-Cauchy equation.
November	Unit 5(Paper I) Orthogonal trajectories of one parameter families of curves in a plane. Minimum velocity of escape from Earth's gravitational field. Surfaces orthogonal to a given system of surfaces.Newton's Law of cooling. Logistic population models. Radioactive decay.
December	Unit III (Paper II) Infinite Series: Convergence of a series of positive real number, Necessary condition for convergence. Cauchy criterion for convergence: Tests for convergence, Comparison test, Limit Comparison test, D'Alembert's ratio test. Abel's test,Integral test, Alternating series, Absolute and conditional convergence, Leibniz theorem, Riemann's rearrangement theorem.
January	Unit IV (Paper II) Riemann Integration: Riemann integrability of bounded function. Examples of R-integrable and non-integrable function. Algebra of Riemann integrable functions. Integrability of continuous and monotonic functions. Darboux theorems, Fundamental theorem of integral calculus, First mean value theorem and second mean valued theorem. Necessary and sufficient condition for Riemann integrable function.
Febuary	Uniform Convergence, Continuity and Improper Integrals: Pointwise and uniform convergence of sequence and series of functions. Uniform continuity Weierstrass's M-test, Uniform convergence and continuity, Uniform convergence and differentiability, Improper integrals and tests for improper integrals, Beta and Gamma function.

  
**Mrs. Som Kumari**

**(Guest Lecturer)**  
**Department of Mathematics**

  
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**(Principal)**

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