



**Maratha VidyaPrasarak Samaj's**  
**Arts, Commerce and Science College, Taharabad.**  
**Tal- Baglan, Dist-Nashik Pin Code: - 423302**

**Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences**  
**2023 – 24**





Maratha Vidya Prasarak Samaj's

# Arts, Commerce and Science College, Taharabad

Tal. Baglan, Dist. Nashik

## Department of Geography- 2023-24

### 2.3.1: Details of course-wise application of student centric methods

Name of the Teacher: Prof. U. M. Patole

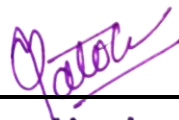
Class: Course: F.Y.B.A

Subject: Physical Geography & Human Geography

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	Introduction to Physical Geography 1) Definitions of Physical Geography	Group discussion, Home assignment Cases study
	2 <sup>nd</sup>	2) Nature and scope of Physical Geography	
	3 <sup>rd</sup>	3) Branches of Physical Geography	
	4 <sup>th</sup>	4) Introduction about the Earth system (Lithosphere, Atmosphere, Hydrosphere and Biosphere)	
August	1 <sup>st</sup>	Lithosphere	Group discussion, Home assignment Case study
	2 <sup>nd</sup>	1) Interior of the earth	
	3 <sup>rd</sup>	2) Wegner's Continental Drift Theory	
	4 <sup>th</sup>	3) Davis Concept of Cycle of erosion	
September	1 <sup>st</sup>	Atmosphere 1) Structure of the atmosphere	Power point presentation, Group discussion, Home assignment Case study
	2 <sup>nd</sup>	2) Heat Balance	
	3 <sup>rd</sup>	3) Pressure belts and wind system	
	4 <sup>th</sup>	4) Forms and types of Precipitation	
October	1 <sup>st</sup>	Hydrosphere 1) Hydrological cycle	Group discussion, Home assignment Group Debate Youtube session
	2 <sup>nd</sup>	2) General structure of ocean floor	
	3 <sup>rd</sup>	3) Waves and Tides	
	4 <sup>th</sup>	4) Field Visit (Not more than one day) for observations geographical places and landforms.	

Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
November	1 <sup>st</sup>	Introduction to Human Geography	Interactive session Group discussion You tube session Powerpointpresentation
	2 <sup>nd</sup>	1)Definitions of Human Geography	
	3 <sup>rd</sup>	2) Nature and scope of Human Geography	
	4 <sup>th</sup>	3) Branches and importance of Human Geography	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
December	1 <sup>st</sup>	Population	Power point presentation, Group discussion, Home assignment Case study
	2 <sup>nd</sup>	1)Factors affecting on distribution of population	
	3 <sup>rd</sup>	2) Theory of demographic transition	
	4 <sup>th</sup>	3) Composition of Indian population ( Gender and literacy)	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
January	1 <sup>st</sup>	Settlements	Group discussion, Home assignment Case study
	2 <sup>nd</sup>	1) Types and pattern of rural Settlements	
	3 <sup>rd</sup>	2)Urbanisation in India	
	4 <sup>th</sup>	3) Urbanisation in Maharashtra	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
February	1 <sup>st</sup>	Agriculture	GroupDiscussion You tube session GroupDebate Interactivesession
	2 <sup>nd</sup>	1)Types of Agriculture	
	3 <sup>rd</sup>	2) Factors affecting on Agriculture activity	
	4 <sup>th</sup>	3) Problems of Indian agriculture	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
March	1 <sup>st</sup>	Problems of Indian agriculture	Powerpointpresentation, Groupdiscussion, Homeassignment GroupDebate Youtubesession
	2 <sup>nd</sup>	1)Factors affecting on Agriculture activity	
	3 <sup>rd</sup>		
	4 <sup>th</sup>		

Name & Signature of Subject Teacher: \_\_\_\_\_



**Head**  
**Department of Geography**  
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## Department of Geography 2023-24

### 2.3.1: Details of course-wise application of students centric methods

Name of the Teacher: Prof. U. M. Patole

Class: Course/: SYBA. (S1)

### Subject: Geography of Maharashtra

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	Administrative Set up of Maharashtra 1. Historical and Political Background of the state	Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Geographical location of State	
	3 <sup>rd</sup>	3. Adjoining States	
	4 <sup>th</sup>	4. Administrative Divisions	
August	1 <sup>st</sup>	Physical settings 1. Geological Structure of Maharashtra.	Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Physical Structure (Mountain, plateau, Plains)	
	3 <sup>rd</sup>	3. Drainage Pattern (East and West flowing rivers)	
	4 <sup>th</sup>	4. Major Soil types and Distribution	
September	1 <sup>st</sup>	Climate 1. Climatic Regions of Maharashtra	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Distribution of Rainfall	
	3 <sup>rd</sup>	3. Draught prone areas- Problems and Management	
	4 <sup>th</sup>	4. Flood areas - Problems and Management	
October	1 <sup>st</sup>	Resources 1. Water : Problems in Utilization and conservation 2. Forest : Types Conservation	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Forest : Types and Conservation	
	3 <sup>rd</sup>	3. Mineral; Iron ore, Manganese and Bauxite	
	4 <sup>th</sup>	4. Power : Hydro, Thermal, Atomic	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods

November	1 <sup>st</sup>	Agriculture 1. Importance of Agriculture in Economy of Maharashtra	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Major Crops - Wheat, Rice, Jawar, Bajra	
	3 <sup>rd</sup>	3. Cash Crops and Horticulture - Cotton, Sugarcane, Pomegranate, Grapes.	
	4 <sup>th</sup>	4. Problems of agriculture in Maharashtra	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
December	1 <sup>st</sup>	Population and Settlement 1. Population distribution of Maharashtra	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Population composition - Sex Ratio, Literacy, Occupational structure, Migration	
	3 <sup>rd</sup>	3. Rural and Urban Settlements	
	4 <sup>th</sup>	4. Potential of Major Cities in Maharashtra – Mumbai, Pune, Nagpur	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
January	1 <sup>st</sup>	Rural Development of Maharashtra 1. Concept of Rural Development	Power point presentation, Group discussion, Home assignment Group Debate
	2 <sup>nd</sup>	2. Parameters of Rural Development	
	3 <sup>rd</sup>	3. Schemes For Rural Development	
	4 <sup>th</sup>	4. Case Studies – Hivare Bazar and Ralegan Siddhi (Ahmednagar), Patoda (Aurangabad)	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
February	1 <sup>st</sup>	Tourism 1. Growth and development of tourism in Maharashtra	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Tourism Potential of Maharashtra	
	3 <sup>rd</sup>	3. Agro-Tourism	
	4 <sup>th</sup>	4. Role of MTDC	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
March	1 <sup>st</sup>	. Growth and development of tourism in Maharasht	Power point presentation, Group discussion,
	2 <sup>nd</sup>		
	3 <sup>rd</sup>		

Head

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Name & Signature of Subject Teacher: \_\_\_\_\_



## Department of Geography- 2023-24

## 2.3.1: Details of course-wise application of students centric methods

Name of the Teacher: Dr. V. B. Kale

Class Course: S.Y.B.A (S2)

Subject: Scale and Map Projection &amp; Cartographic Techniques, Surveying and Village Report

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	<b>Introduction of Maps</b> 1. Definition of Map	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Elements of Map	
	3 <sup>rd</sup>	Classification of Map: a. On the basis of scale:: i) Physical ii) Cultural b. On the basis of function i) Small scale ii) Large Scale	
	4 <sup>th</sup>	4. Use of map	
August	1 <sup>st</sup>	<b>Map Scale</b> 1. Definition of Map Scale	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Types of Map Scale a. Verbal Scale b. Numerical Scale c. Graphical Scale	
	3 <sup>rd</sup>	3. Conversion Scale (British and Metric System) a. Verbal scale to Representative fraction b. Representative fraction into Verbal scale	
	4 <sup>th</sup>	4. Construction of Simple Graphical scale (At least two examples from each)	
	Month	Week	
September	1 <sup>st</sup>	<b>Basic of map projection</b>	Power point presentation, Group discussion, Home assignment Group Debate

	2 <sup>nd</sup>	1. Definition and types of map projection	You tube session
	3 <sup>rd</sup>	2. Basic Concepts of Projection: Latitude, Longitude, Parallel of latitude, Meridian of longitude, Prime meridian, Equator, Direction	
	4 <sup>th</sup>	3. Calculation of time basis on meridian and GMT (Calculation of minimum two examples )	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
October	1 <sup>st</sup>	<b>Construction, properties and use of map projections</b> 1. Zenithal Projection a. Zenithal Polar Gnomonic Projection	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Conical Projection a. Conical projection with one standard parallel/Simple conical projection	
	3 <sup>rd</sup>	3. Cylindrical Projection a. Cylindrical equal area projection	
	4 <sup>th</sup>	4. Mercator projection (At least two examples from each projection)	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
November	1 <sup>st</sup>	<b>Introduction to Cartography</b>	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	1. Definition of Cartography	
	3 <sup>rd</sup>	2. Development of cartography a. Traditional b. Modern	
	4 <sup>th</sup>	3. Use of Cartography	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
December	1 <sup>st</sup>	<b>Cartographic techniques</b> 1. Techniques of representation of data (Use and limitations)	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	a. Simple line graph b. imple bar Graph	
	3 <sup>rd</sup>	c. Pie diagram d. Choropleth Map	
	4 <sup>th</sup>	e. Isopleth Method (Isoheight or Isothermal)	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
January	1 <sup>st</sup>	f. Flow diagram (At least 01 example of each manually and using computer)	Power point presentation, Group discussion, Home assignment

	2 <sup>nd</sup>	<b>Surveying</b>	Group Debate You tube session
	3 <sup>rd</sup>	1. Definition of Surveying	
	4 <sup>th</sup>	2. Types of North Direction (True, Magnetic and Grid North	
<b>Month</b>	<b>Week</b>	<b>NameoftheUnit/Topic</b>	<b>ApplicationofStudentCentricMethods</b>
February	1 <sup>st</sup>	3. Types of Survey (Any three) a. Plane Table Survey : (Radiation Method and Intersection Method) b. GPS Survey and plotting c. Dumpy level / Auto level survey i) Rise and Fall Method ii) Collimation Method	GroupDiscussionYou tube sessionGroupDebate Interactivesession
	2 <sup>nd</sup>	d. Demonstration of Total Station 4. Measurement of land: i) Measurement of survey field ii) Example on measurement of area (Circle, Square, Rectangle, Triangle, Uneven shape)	
	3 <sup>rd</sup>	iii) Conversion of area (hector into Acer, Square km into square meter, Square meter to Square feet)	
	4 <sup>th</sup>		
<b>Month</b>	<b>Week</b>	<b>NameoftheUnit/Topic</b>	<b>ApplicationofStudentCentricMethods</b>
March	1 <sup>st</sup>	<b>Excursion / village/city survey and report writing</b> Study tour to places of geographical interest anywhere in the country	Power point presentation,
	2 <sup>nd</sup>	Study tour to places of geographical interest anywhere in the country	Group discussion,
	3 <sup>rd</sup>	Report Writing	Home assignment
	4 <sup>th</sup>	Socio- economic survey of village/city	Group Debate You tube session Power point presentation,

Name&Signature of Subject Teacher: \_\_\_\_\_



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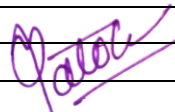
Name of the Teacher: Prof. U. M. Patole

Class: Course: S.Y.B.A. (G2)

### Subject: Environment Geography- I, & Environment Geography- II,

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	<b>Introduction to Environmental Geography 1.</b> Definition, Nature and scope of Environmental Geography.	Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Types of Environment	
	3 <sup>rd</sup>	3. Importance of Environmental Geography	
	4 <sup>th</sup>	4. Approaches to study of environmental Geography	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	<b>Ecosystem</b> 1. Meaning, concept and definition of ecosystem	Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Structure ( Biotic and Abiotic factors) and food chain, Tropic Level, food web, energy flow	
	3 <sup>rd</sup>	3. Types of ecosystem a) Equatorial Forest and	
	4 <sup>th</sup>	b) Pond Ecosystem	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	<b>Biodiversity and its conservation 1.</b> Concept of biodiversity	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Economic value and potential of biodiversity	
	3 <sup>rd</sup>	3. Loss of biodiversity and hotspots in India	
	4 <sup>th</sup>	4. Conservation of biodiversity	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
October	1 <sup>st</sup>	<b>Environmental Pollution</b> 1. Concept of Pollution	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	3. Water pollution-Causes, effects and control measures	
	3 <sup>rd</sup>	3. Water pollution-Causes, effects and control measures	

	4 <sup>th</sup>	4. Soil pollution-Causes, effects and control measures	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
November	1 <sup>st</sup>	2. Air pollution-Causes, effects and control meas	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	<b>Environmental Disaster</b>	
	3 <sup>rd</sup>	1. Meaning and concepts of environmental disaster	
	4 <sup>th</sup>	2. Classification of Disaster	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
December	1 <sup>st</sup>	3. Natural Disaster a) Earthquake b) Flood	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	4. Biological Disaster a) Swine flu b) Novel Corona (COVID-19)	
	3 <sup>rd</sup>	Environmental Problems 1. Global Warming and climate change	
	4 <sup>th</sup>	2. Ozone Depletion	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
January	1 <sup>st</sup>	3. Acid rain	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	4. Over use of chemical fertilizers, pesticides and insecticides	
	3 <sup>rd</sup>	Environmental Planning and Management	
	4 <sup>th</sup>	1. Need of Planning and Management	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
February	1 <sup>st</sup>	2. Micro, macro and meso level Planning and Management with reference to India	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	3. Environmental impact assessment	
	3 <sup>rd</sup>	Environmental Policies 1. Introduction of environmental policies	
	4 <sup>th</sup>	2. Environmental education in India	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods



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## Department of Geography- 2023-24

### 2.3.1: Details of course-wise application of students centric methods

Name of the Teacher: Prof. U. M. Patole

Class: Course/ : TYBA (G3)

### Subject: Human Geography

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	Introduction to Human Geography	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	a) Meaning and Definition of Human Geography.	
	3 <sup>rd</sup>	b) Nature, Scope and Importance of Human Geography, approach of Human Geography &	
	4 <sup>th</sup>	Branches of Human Geography	
August	1 <sup>st</sup>	Development of Human Geography a) Pre-historical Period.	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	b) Medieval Period of Human Geography.	
	3 <sup>rd</sup>	c) Modern Period of Human Geography.	
	4 <sup>th</sup>	d) Concepts of Determinism, Possibilism, Stop and Go Determinism	
September	1 <sup>st</sup>	Human Evolution and Races a) Stages of Human Evolution. b) Meaning and Definition of Human Race	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	c) Bases of Human Race	
	3 <sup>rd</sup>	d) Griffith Taylor's Theory of Human Race	
	4 <sup>th</sup>	e) Pure and Mixed Races	
October	1 <sup>st</sup>	Form of Adaptation to the Environment	Powerpoint presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	a) Human life in Cold Region - ESKIMO	
	3 <sup>rd</sup>	b) Human life in Tropics - PYGMY	
	4 <sup>th</sup>	BUSHMEN	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods

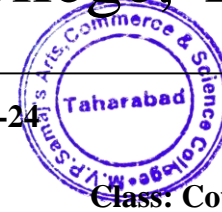
November	1 <sup>st</sup>	Study of Indian Tribes Regional Distribution of Tribes in India	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	a) Bhill	
	3 <sup>rd</sup>	b) Gond	
	4 <sup>th</sup>	c) Naga	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
December	1 <sup>st</sup>	d) Tribes in Maharashtra	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	<b>Human Culture</b>	
	3 <sup>rd</sup>	a) World Languages & their distribution	
	4 <sup>th</sup>	b) World's Major Religions & their distribution	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
January	1 <sup>st</sup>	c) Distribution of Languages & Religions in India	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	<b>Movement of Mankind</b>	
	3 <sup>rd</sup>	a) Meaning and Definition of Migration	
	4 <sup>th</sup>	b) Type of Migratio	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
February	1 <sup>st</sup>	c) Causes & Effects of Migration	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	d) Migration in Modern Period	
	3 <sup>rd</sup>	<b>Population &amp; Resources</b>	
	4 <sup>th</sup>	a) World Population Distribution	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
March	1 <sup>st</sup>	b) Effects of Population Growth on Natural Resources	Power point presentation,  Group discussion, Home assignment Group Debate You tube session Power point presentation,
	2 <sup>nd</sup>	c) Malthus Theory of Population Growth	
	3 <sup>rd</sup>	d) Population as a Resource	
	4 <sup>th</sup>		

Name&Signature of Subject Teacher: \_\_\_\_\_

  
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Department of Geography- 2023-24

## 2.3.1: Details of course-wise application of students centric methods

Name of the Teacher: Prof. U. M. Patole

Class: Course: TYBA (S3)

### Subject: Agriculture Geography

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	<b>Introduction of Agricultural Geography</b>	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	A. Meaning ,Nature & Scope	
	3 <sup>rd</sup>	B. Approaches	
	4 <sup>th</sup>	C. Importance	
August	1 <sup>st</sup>	D. Trends	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	<b>Determinates of Agriculture</b>	
	3 <sup>rd</sup>	A. Physical Factors	
	4 <sup>th</sup>	B. Economic Factors	
September	1 <sup>st</sup>	C. Social Factor	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	D. Technological Factors	
	3 <sup>rd</sup>	<b>Types of Agriculture Characteristics of</b>	
	4 <sup>th</sup>	A. Subsistence Agriculture	
October	1 <sup>st</sup>	<b>B. Commercial Farming</b> 1. Shifting Cultivation 2. Dry land farming 3. Intensive Subsistent farming	Powerpoint presentation, Group discussion, Home assignment Group Debate Youtubession
	2 <sup>nd</sup>	1. Mixed farming	
	3 <sup>rd</sup>	2. Horticulture / Truck farming	
	4 <sup>th</sup>	3. Community farming	
November	1 <sup>st</sup>	Problems & Prospects of	Power point presentation,

		Agriculture	Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Problems & Prospects of Agriculture	
	3 <sup>rd</sup>	Problems and Prospects with Indian examples	
	4 <sup>th</sup>		
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
December	1 <sup>st</sup>	<b>Role of irrigation in Agricultural Development</b>	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	A. Need of Irrigation	
	3 <sup>rd</sup>	B. Types of Irrigation	
	4 <sup>th</sup>	C. Methods of Irrigation	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
January	1 <sup>st</sup>	Dry Land farming And Watershed Management	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	A. Concept & Need	
	3 <sup>rd</sup>		
	4 <sup>th</sup>	B. Methods of Watershed Management	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
February	1 <sup>st</sup>	<b>Allied Areas in Agriculture &amp; Agriculture Development</b>	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Concept of Agricultural Development with	
	3 <sup>rd</sup>	new Techniques 1. Dairy farming 2. Poultry 3. Sheep and Goat farming 4. Nursery 5. Api Culture 6. Fish Farming	
	4 <sup>th</sup>	6. Poly houses 7. Tissue Culture 8. Food & Fruit Processing 9. Agro-Tourism	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
March	1 <sup>st</sup>	Sustainable <b>Agricultural Development and Agriculture in India</b>	Group discussion, Home assignment Group Debate
	2 <sup>nd</sup>	A. Ecological Conservation	

*[Signature]*  
Head

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## Department of Geography- 2023-24

### 2.3.1: Details of course-wise application of students centric methods

Name of the Teacher: Dr. V. B. Kale

Class: Course/Subject: TYBA (S4)

### Subject: Practical Geography Techniques of Spatial Analysis

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	Toposheets a. Introduction to Survey of India (SOI) toposheets, Marginal Information, Grid reference, Conventional signs and symbols	Group discussion, Home assignment Group Debate
	2 <sup>nd</sup>	b. Types of toposheet/Indexing of toposheets i. 1: 1000000/Million sheet ii. 1:250000/Degree sheet/Quarter inch sheet	
	3 <sup>rd</sup>	iii. 1:100000/Half inch sheet iv. 1:50000/One inch sheet	
	4 <sup>th</sup>	v. 1:25000 vi. 1: 5000	
Month	Week	Name of the Unit/Topic	
August	1 <sup>st</sup>	Methods of Relief Representation	You tube session Data analysis Group Discussion Interactive session Powerpoint presentation
	2 <sup>nd</sup>	1. Methods of Relief Representation a. Qualitative :- Hachures, Hill shading, Layer Tint b. Quantitative:- Contours, Form lines, Bench Marks, Spot Heights, Triangulation Mark, Relative Height (r)	
	3 <sup>rd</sup>	2. Representation of Relief features by Contours a. Concave Slope, Convex Slope, Steep Slope, Gentle Slope, Terraced / Uniform b. Conical Hill, Spur, Plateau, Ridge, Saddle, Pass, Cliff & Waterfall	
	4 <sup>th</sup>	3. Profile a. Drawing and Description of Cross Profile of any Region from toposheet b. Drawing and Description of Longitudinal Profile of a Road or a River	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods

September	1 <sup>st</sup>	Toposheet Reading, Interpretation & data generation	,Groupdiscussion, Homeassignment Group Debate Youtubesession
	2 <sup>nd</sup>	1. Reading of at least three SOI toposheets one each for Plain, Plateau and Mountainous/hilly Region	
	3 <sup>rd</sup>	2. One day field Excursion for Orientation of toposheet, Observation and Identification of Geographical	
	4 <sup>th</sup>	Features and Preparation of a Brief Report	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
October	1 <sup>st</sup>	Application of Remote Sensing Techniques in Geography	Home assignment Group Debate Youtubesession
	2 <sup>nd</sup>	1. Introduction of Aerial Photographs & Satellite Image	
	3 <sup>rd</sup>	2. Stereoscopic View of Aerial Photographs & Satellite Image and Identification of Geographical features	
	4 <sup>th</sup>	3. Use of Computer open source software for visualization of Arial Photographs & Satellite Image	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
November	1 <sup>st</sup>	Weather Maps & Reading a. Introduction to Weather Maps b. Symbols in Daily Weather Report used by India Meteorological Department (IMD)	Home assignment Group Debate Youtubesession
	2 <sup>nd</sup>	c. Isobaric pattern Cyclones, Anti cyclones, V shaped Cyclones, V Shaped Anti Cyclones , Col	
	3 <sup>rd</sup>	a. Reading of Weather Map of Three Seasons i. Summer ii. Monsoon iii. Winter	
	4 <sup>th</sup>	b. One day visit to nearby weather station of IMD	
Month	Week	NameoftheUnit/Topic	ApplicationofStudentCentricMethods
December	1 <sup>st</sup>	<b>Geographical Data &amp; Measures of Central Tendency</b> a. Spatial and Temporal data	,Groupdiscussion, Group Debate Youtubesession
	2 <sup>nd</sup>	b. Discrete and Continuous series c. Grouped and Ungrouped data	
	3 <sup>rd</sup>	d. Meaning and description of central tendencies- Mean, Mode, Median	



	4 <sup>th</sup>	e. Calculation of Mean, Mode, Median for ungrouped and grouped data (two examples each)	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
January	1 <sup>st</sup>	<b>Measures of dispersion</b>	Group discussion, Home assignment Group Debate Youtube session
	2 <sup>nd</sup>	a. Variance and Standard deviation for ungrouped and	
	3 <sup>rd</sup>		
	4 <sup>th</sup>	grouped data (two examples each)	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
February	1 <sup>st</sup>	<b>Correlation &amp; Regression Testing of Hypothesis</b>	Group Discussion on You tube session Group Debate Interactive session
	2 <sup>nd</sup>	a. Correlation and regression i. Concept of bivariate correlation and regression ii. Meaning of coefficient of correlation iii. Calculation of Pearson's Product-Moment	
	3 <sup>rd</sup>	iv. Correlation Coefficient (Two examples) v. Calculation of Spearman Rank order vi. Coefficient (Two examples)	
	4 <sup>th</sup>	b. Parametric and Non-parametric tests i. Chi-square test (One-sample case only) ii. Student's t-test (Comparison of sample means)	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
March	1 <sup>st</sup>	Field Excursion/ Village Survey Report	Home assignment  Group Debate Youtube session
	2 <sup>nd</sup>	a. One short tour of two days duration and preparation of tour report OR One long tour of more than five days duration anywhere in the country and preparation of tour report OR Village survey and preparation of report	
	3 <sup>rd</sup>		
	4 <sup>th</sup>	duration anywhere in the country and preparation of tour report OR Village survey and preparation of report	

Name & Signature of Subject Teacher: \_\_\_\_\_

  
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Tal. Baglan, Dist. Nashik **Department of Geography**  
**Student Centric Methods**  
**Report: 2022-2024**



Student centric methods, such as experiential learning, participative learning and problem solving methodologies were used for enhancing the learning experiences. The department did its sincerely by ensuring holistic development of the students through a student-centric learning process. Teaching-learning methods adopted by the department comprised Lecture Method, Interactive Method, ICT-assisted Learning, Experiential Learning etc. On-line Teaching – learning activities were made effectively.. To acquire first-hand knowledge on the subjects and current practices students are engaged in Paper Presentation, PPT, Group Discussion. Lessons are taught through Power point presentations to make learning interesting besides oral presenting methods.

The departments adopted the following strategies to make the learning more students-centric and ensure the holistic development of the students

- Department adopted by conventional lecture method is commonly. This year due to the Covid-19 situation all the lectures were taken online and the syllabus was taught through online.
- The faculty members made the learning interactive with students by motivating student participation in group discussion, role-play, subject quiz, , discussion and questions and answers on syllabus .
- The Department organized guest lectures of eminent personalities to develop the students to learn on their own.
- Learner centric teaching methods such as group work, role play, debates, presentations were conducted to make teaching and learning more effective.
- Power point presentations on relevant topics made the teaching process interesting and student centered.

  
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Department of Marathi – 2023-24

**3.1: Details of course-wise application of students centric methods**

Name of the Teacher: Mr. A. R. Bagul

Class: Course : F.Y.B.A ( G- 1 )

Subject: Samkalin Marathi Katha Ani Vyavharik Marathi , Marathi Ekankika Ani Vyavharik Marathi

Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	1. Katha Mhanaje Kay ? 2. .Katheche Prakar	Group discussion, Home assignment Case study
	2 <sup>nd</sup>	1. Katheche Ghatak 2. Katheche Vatchal	
	3 <sup>rd</sup>	1. Katheche Swarup 2. Vaishiste	
	4 <sup>th</sup>	1. Kathechi Vatchal	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	1. Bashik 2. Kaushal 3. Vachan	Group discussion, Home assignment Case study
	2 <sup>nd</sup>	1. Bashik Kaushalyae - Sravan, Bhashan	
	3 <sup>rd</sup>	1. Saransh Lekhan	
	4 <sup>th</sup>	1. Mahatva	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	1. Jevha Mi Jat Chorali 2. Lal Chikhal	Power point presentation, Group discussion, Home assignment Case study
	2 <sup>nd</sup>	1. paush Aala Motha 2. Uthavan	
	3 <sup>rd</sup>	1. Baza 2. Dagad Davakhana	
	4 <sup>th</sup>	1. Vapashi 2. Shubhmangal Savdhan	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
October	1 <sup>st</sup>	Kastachi Bhakari	



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Department of Marathi – 2023-24

**2.3.1: Details of course-wise application of students centric methods**

Name of the Teacher: Mr.A. R. Bagul

Class : Course /: SYBA. ( S-1 )

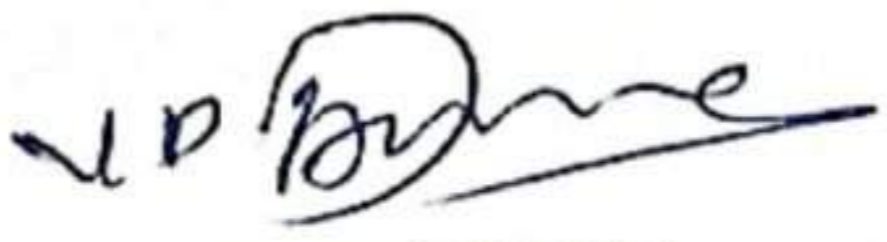
Subject: Aatmcharitra - Prakashvata , Nivdak Madyasyugin Gadya , Padya

Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	Vandamay Prakar _ Sakalpana- Swarup	Group discussion,
	2 <sup>nd</sup>	Aatmakatha – Swarup Va sankalpana	Home assignment
	3 <sup>rd</sup>	Aatmakatha Va aatma Caharitra – Samya Va Farak	Group Debate
	4 <sup>th</sup>	Aatmakathan – Kadambari Va Eater sah – sambandh	You tube session
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	Aatam charitra - Prerana Ani Vatchal	Group discussion,
	2 <sup>nd</sup>	Lalit Gadya Ani Aatmcharitra Yatil Farak – Veganepan	Home assignment
	3 <sup>rd</sup>	Aakalan, aaswad, Vishleshan	Group Debate
	4 <sup>th</sup>	Nemlelya sahitya Krutiche - aaswad, Aaklan, Vishleshan	You tube session
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	Prakash vata - Dr, Prakash Aambedar	Power point presentation,
	2 <sup>nd</sup>	Aanya Sahitya Parakaracha Tulnet Aatmcharitrache Veganepan	Group discussion,
	3 <sup>rd</sup>	Dr. Prakash aamate – Lekhak Parichay	Home assignment
	4 <sup>th</sup>	Prakashvata – Prasang, Ghatana	Group Debate You tube session
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
October	1 <sup>st</sup>	Prakashvata – Swabhav chitrane ( Patre )	Power point presentation,
	2 <sup>nd</sup>	Prakash Vata Yatil aadivashinche Chitran	Group discussion,
	3 <sup>rd</sup>	Vastav - Vandamayin Mulye	Home assignment
	4 <sup>th</sup>	Aadivasinchya samasya	Group Debate You tube session
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
November	1 <sup>st</sup>	Prakashvata – Bhasha , Shaily Chitran	Power point presentation,
	2 <sup>nd</sup>	Prakash vata- Sanvad chitran	Group discussion,
	3 <sup>rd</sup>	Madyayugin Gadya	Home assignment
	4 <sup>th</sup>	Madyayugin Padya	Group Debate You tube session
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods



December	1 <sup>st</sup>	Gadya – Bakhar , Eitihasshik Patre , Swarup Ani Vishesh	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Padya - Aabhang , Bharud , Pade, Gavlan, Povada , Lavani	
	3 <sup>rd</sup>	Madya Yugin Kalkhad Sankalpana	
	4 <sup>th</sup>	Kalkhandache Vargikaran- Tatve – Rajkiy, samajik, sanskrutic	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
January	1 <sup>st</sup>	Yadavkalin, Bahamani Kalin Sahitya	Power point presentation, Group discussion, Home assignment Group Debate
	2 <sup>nd</sup>	Shiv Kalin Va Peshave Kalin Kalkhand	
	3 <sup>rd</sup>	Varkari Sampraday, Mahanubhav sampraday	
	4 <sup>th</sup>	Natha Sampraday, Samarta, data Samp[raday	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
February	1 <sup>st</sup>	Paditi va shahiri sampraday	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Natha Sampraday – Gadya Va Padya	
	3 <sup>rd</sup>	Mahanubhav sampraday - Gadya Va Padya	
	4 <sup>th</sup>	Varkari Sampraday - Gadya Va Padya	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
March	1 <sup>st</sup>	Samarta Sampraday - Gadya Va Padya	Power point presentation, Group discussion, Home assignment Group Debate
	2 <sup>nd</sup>	Panditi Sampraday - Gadya Va Padya	
	3 <sup>rd</sup>	Shahir Sampraday - Gadya Va Padya	
	4 <sup>th</sup>	Angalkalin Sampraday - Gadya Va Padya	

  
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Department of Marathi – 2023-24

**2.3.1:Details of course-wise application of students centric methods**

Name of the Teacher : Mr. L. R. Borse


Class Course : S.Y.B.A ( S -2 )


Subject : Sahitya Vichar Va Samiksha Vichar

Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	Sahityache Swarup Va Prayojane	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Sahityatil Anubhavanche Vishesh	
	3 <sup>rd</sup>	Prayojan – Mamaat ( Bhartiy )	
	4 <sup>th</sup>	Prayojan – Pachhatya	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	Sahityachi Nirmiti Prakriya	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Pratibha, Kalpanashakti	
	3 <sup>rd</sup>	Spurti , Caat Kruti ,	
	4 <sup>th</sup>	Sahityikache Vyaktimattav	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	Sahityachi Bhasha va Samajikata	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Sahitya Samaj - Jivan Mulye, Vandmayin Mulye	
	3 <sup>rd</sup>	Sahityachi Bhasha – Vakrokti	
	4 <sup>th</sup>	Aalnkari- Pratima, Pratik, Prakatha	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
October	1 <sup>st</sup>	Shaily- Lekhak, Vachak, sahitya Prakar	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Rasvichar	
	3 <sup>rd</sup>	Auchitya Vichar	
	4 <sup>th</sup>	Dhvani Vichar	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
November	1 <sup>st</sup>	Samiksha Vichar – sankalpana, Swarup	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Samiksha Vichar - Prayojan	
	3 <sup>rd</sup>	Samiksha Vichar – Vyapti, Prakar	
	4 <sup>th</sup>	Sahitya Vichar Ani Samiksha Yatil anubandh	



Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
December	1 <sup>st</sup>	Sahitya Vyavharatil Samiksheche Sthan Va Kary	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Sahitya va Samiksha Yatil Parspar Sambandh	
	3 <sup>rd</sup>	Sahitya Kruti Ani Vachak	
	4 <sup>th</sup>	Sahityakruti Ani Samikshak	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
January	1 <sup>st</sup>	Sahitya Samiksha – Aakalan, Aaswad, Vishleshan, Eartha Niryan	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Mulya Mapan Ani Shabdankan	
	3 <sup>rd</sup>	Samikshakache Gun ani Palavayachi Patthye	
	4 <sup>th</sup>	Samikhakache Gun – Rasikata, Pradnya, Tulana Khamata, Chikitsakata	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
February	1 <sup>st</sup>	Mulya Vivek , Vishleshkata, Vyutpannata,	GroupDiscussionYou tube sessionGroupDebate Interactivesession
	2 <sup>nd</sup>	Samikshkane Palavayachi Patthe - Aavadhan, Tartamya	
	3 <sup>rd</sup>	Nikshache tarttmya , Vyakti Nisthata, va Vastunistata	
	4 <sup>th</sup>	Mandani Va Shaily Yanche Tartamya	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
March	1 <sup>st</sup>	Vandmayin Mulye Va Jivan Mulye Yanche tarttmya	Power point presentation, Group discussion, You tube session Power point presentation,
	2 <sup>nd</sup>	Bhashik, Sanskrutik va Sahityik Sanket Ani Mulya Vyavahar	
	3 <sup>rd</sup>	Upyojit samiksha	
	4 <sup>th</sup>	Grantha Parichay Va Granth Parikshan	

  
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**Department of Marathi – 2023-24**

**2.3.1:Details of course-wise application of students centric methods**

**Name of the Teacher :** Mr. B. G. Kamble

**Class Course :** S.Y.B.A ( G -2 )

**Subject :** Adhunik Marathi Sahitya Prakar : kadambari – Rarngdhang , Adhunik Marathi Sahitya Prakar – sahitya Rang

Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	Sangnak Va Mobail - Unicode Mudran	Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Kal Phalak Prakar - Phonetics	
	3 <sup>rd</sup>	Marathi Tank Lekhan Va Unicode Cha Vapar	
	4 <sup>th</sup>	Google Input va Microsoft Input va Eater Sadhane	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	Kadambari - Ek Vadmay Prakar	Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Kadmabari – Swarup Va sankalpana	
	3 <sup>rd</sup>	Kadambariche Ghatak – Vishay ( Katha bij ) , Kathanak	
	4 <sup>th</sup>	Vyaktichitre , Vatavaran Nirmiti, Bhasha – Nivedan Shaily	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	Rarang Dhang – Prabhakar Pendharkar	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Prabhakar Pendharkar – Lehakache Vadmayin Kartutva	
	3 <sup>rd</sup>	Rarang Dhang – Katha Bij., Kathanak	
	4 <sup>th</sup>	Rarang Dhang – Swabhav Chitran ( Patre )	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
October	1 <sup>st</sup>	Rarang Dhang – Kadambaritil Vatavarn Nirmiti	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Rarang Dhang kadambaritil – Prasang Chitran	
	3 <sup>rd</sup>	Rarang Dhang kadambaritil Sangharsh	
	4 <sup>th</sup>	Rarang Dhang kadambaritil – Prarambh, Madhya, Shevat	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
November	1 <sup>st</sup>	Rarang Dhang kadambariche Vishesh	Power point presentation,





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**Department of Marathi – 2023-24**

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**Name of the Teacher :** Mr. B. G. Kamble


**Class Course : S.Y.B.A ( G -2 )**

**Subject :** Adhunik Marathi Sahitya Prakar : kadambari – Rarngdhang , Adhunik Marathi Sahitya Prakar – sahitya Rang

Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	Sangnak Va Mobail - Unicode Mudran	Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Kal Phalak Prakar - Phonetics	
	3 <sup>rd</sup>	Marathi Tank Lekhan Va Unicode Cha Vapar	
	4 <sup>th</sup>	Google Input va Microsoft Input va Eater Sadhane	
Application of Student Centric Methods			
August	1 <sup>st</sup>	Kadambari - Ek Vadmay Prakar	Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Kadmabari – Swarup Va sankalpana	
	3 <sup>rd</sup>	Kadambariche Ghatak – Vishay ( Katha bij ) , Kathanak	
	4 <sup>th</sup>	Vyaktichitre , Vatavaran Nirmitti, Bhasha – Nivedan Shaily	
Application of Student Centric Methods			
September	1 <sup>st</sup>	Rarang Dhang – Prabhakar Pendharkar	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Prabhakar Pendharkar – Lehakache Vadmayin Kartutva	
	3 <sup>rd</sup>	Rarang Dhang – Katha Bij., Kathanak	
	4 <sup>th</sup>	Rarang Dhang – Swabhav Chitran ( Patre )	
Application of Student Centric Methods			
October	1 <sup>st</sup>	Rarang Dhang – Kadambaritil Vatavarn Nirmitti	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Rarang Dhang kadambaritil – Prasang Chitran	
	3 <sup>rd</sup>	Rarang Dhang kadambaritil Sangharsh	
	4 <sup>th</sup>	Rarang Dhang kadambaritil – Prarambh, Madhya, Shevat	
Application of Student Centric Methods			
November	1 <sup>st</sup>	Rarang Dhang kadambariche Vishesh	Power point presentation,

	2 <sup>nd</sup>	Google – Adhyayant Vapar	Group discussion, Home assignment Group Debate You tube session
	3 <sup>rd</sup>	Google Form, Google classroom , You Tube	
	4 <sup>th</sup>	Lalit gadya – Sankalpana , Swarup	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
December	1 <sup>st</sup>	Bandha, Lalit Nibhandha, Laghu Nibhandha, Muktgadya	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Lalit Gadya va Eater Prakar sah sambandh	
	3 <sup>rd</sup>	Lalit Gadya – yat Samavesh Asalele Prakar – Charitra, aatmcharitra, aatmkathan, Pravas Varnan, Lekha	
	4 <sup>th</sup>	Lalit Gadya – Vyakya, Swarup Va Vishesh	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
January	1 <sup>st</sup>	Lalit gadyache ghatak	Power point presentation, Group discussion, Home assignment Group Debate
	2 <sup>nd</sup>	Lalit gadyachi Vatchal	
	3 <sup>rd</sup>	Sahitya Rang – sampadit sangrah	
	4 <sup>th</sup>	Pari nivruti Vidya sagar- Manishankar Upadhyay	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
February	1 <sup>st</sup>	Kamred Sharad Patil – Aathvanitil Lekha, Vidya Vyasang	Power point presentation, Group discussion, Home assignment Group Debate
	2 <sup>nd</sup>	Guru shisya sambandh	
	3 <sup>rd</sup>	Shabd Bram, earth Bram – Da.Bhi, Kulkarni	
	4 <sup>th</sup>	Aarani- Maruti Chittam Palli	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
March	1 <sup>st</sup>	Sahave Sukh- Yashvant Patane	Power point presentation, Group discussion, Home assignment Group Debate
	2 <sup>nd</sup>	Aarogya , sampatti , Pratistha	
	3 <sup>rd</sup>	Tuzya Nadan Pahili Re Tuzich Pandhari- Jayant Pawar	
	4 <sup>th</sup>	Koradi Bhiksha- Shri Nivas kulkarani	

  
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Department of Marathi – 2023-24

2.3.1:Details of course-wise application of students centric methods

Name of the Teacher : Mr. L. R. Borse

Class Course : T.Y.B.A ( S -3 )


Subject : Sahitya Vichar

Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	Sahitya Mhanaje kai ? Swarup, Vaishitye	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Bhartiy Vichar Pachyatya Va Marathi Vichar	
	3 <sup>rd</sup>	Sahityachi Lakshane	
	4 <sup>th</sup>	Sahityanubhawache Vishesh	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	Sahityache Prayojan	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Prayojan Va Parinam Farak	
	3 <sup>rd</sup>	Mamatachi Prayojane	
	4 <sup>th</sup>	Pachyatyachi Prayojane	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	Sahitya Nirmiti Prakriya	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Pratibha- Vyakhya, Swarup, Vishesh	
	3 <sup>rd</sup>	Pratibha – Vedyachi Bahin, Prakar- Karyitri- Bhavyotri	
	4 <sup>th</sup>	Kalpana Shakti - Vyakhya, Swarup, Vishesh , Sfurti	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
October	1 <sup>st</sup>	Sahityachi Bhasha	Power point presentation, Group discus, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Lalit- Shasriy Va Vyavharik Bhasha Farak	
	3 <sup>rd</sup>	Shabdashakti- Abhida, Lakshana, Vyanjana	
	4 <sup>th</sup>	Shaily, Swarup, Prakar	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
November	1 <sup>st</sup>	Drotima, Drotik, Drotaksha	Power point presentation



	2 <sup>nd</sup>	Alnkar- Shabdalanekar, Erthalanekar	Group discussion, Home assignment
	3 <sup>rd</sup>	Vakrokti Vichar - Shamah, Kuntak	Group Debate
	4 <sup>th</sup>	Sahityachi Aaswad Prakriya	You tube session
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
December	1 <sup>st</sup>	Sahitya Samaj- Parspar sambandha	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Ten- Vansh, Paristithi va Yugdharm	
	3 <sup>rd</sup>	Lekhak, Vachak va Bhashechi Samajikata	
	4 <sup>th</sup>	Kalatak Anubhavatil samajikata, Bandhilki Sanklpana	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
January	1 <sup>st</sup>	Abhiruchi - Vyakhya, Swarup, Vishesh	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Sahityik Abhiruchi. Auchitya Sankalpana	
	3 <sup>rd</sup>	Abhiruchi Niyat Karnare Ghatak	
	4 <sup>th</sup>	Lekhak, Vachak abhiruchi	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
February	1 <sup>st</sup>	Sahitya Prakar sankalpana	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Vichar Vantache Vichar-	
	3 <sup>rd</sup>	Prakar- Katha, Kadmbhari, Kavya ,Natak	
	4 <sup>th</sup>	Vad Vivad	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
March	1 <sup>st</sup>	Barat - Rus Sidhant	Power point presentation, Group discussion, Home assignment Group Debate
	2 <sup>nd</sup>	Dwanivichar - Aanand Vardhan	
	3 <sup>rd</sup>	Auchitya Vichar- Kshemendra	
	4 <sup>th</sup>		

  
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Department of Marathi – 2023-24

2.3.1:Details of course-wise application of students centric methods

Name of the Teacher : Mr. B. G. Kamble

Class Course : T.Y.B.A ( S -4 )


Subject : Bhasha Vidnyan- Varnatmak Va Eitihashik

Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
July	1st	Bhasheche Swarup – Vyakhya, Vishesh, Mansachi Va Pranyachi Bhasha	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2nd	Bhashechi Lakshane	
	3rd	Basha Vidnyachya Abhyash Shakha , Etar Shakheshi Sambandha	
	4th	Varnatmak va Eitihashik	
August	1st	Swan Nirmiti Prakriya – Vagindriyachi Rachana Va karya	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2nd	Swan , Swanim Va swanantare	
	3rd	Swanim , Vyakhya , Prakar	
	4th	Swanim Nichitichi Tatve	
September	1st	Rupim Vinyash	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2nd	Rupika , Rupim Va Rupikantare	
	3rd	Rupim , Vyakhya , Prakar	
	4th	Rupim Nichitichi Tatve	
October	1st	Vakya Vinyash	Power point presentation, Group discussion, Home assignment Debate You tube session
	2nd	Vakya Vyakhya, Vishesh	
	3rd	Vakyache, Prakar	
	4th	Vakya Pruthakkaran, rachana – sanghatak Sankalpana	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods



November	1st	Eartha Vinyash	Power point presentation, Group Discussion, Group Debate You tube session
	2nd	Eartha – Vyakhyaa, Vishesh	
	3rd	Earthache Prakar	
	4th	Earth Kshetre Sankalpana	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
December	1st	Eithashik Bhasha Vidnyan – Ek Shakha	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2nd	Eithashik Bhasha Vidnyan – Swarup, Vishesh	
	3rd	Sir Vilyam Jonce Sidhant	
	4th	Bhashanche Vargikaran	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
January	1st	Jagtik Bhasha kul Sankalpana	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2nd	Indo Urop[ian Bhasha Kul	
	3rd	Eater Bhasha Kul – Dravid, Sino Tibetiyen, Astru	
	4th	Indo Uropian - Marathi	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
February	1st	Marathi Vyutpatti - Sanskrut, Prakrut, Upbransh	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2nd	Yadavkalin Marathi Bhasheche Swarup	
	3rd	Bahamahi kalin Marathi Bhasheche Swarup	
	4th	Shiv kalin Marathi Bhasheche Swarup	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
March	1st	Peshave Kalin Marathi Bhasheche Swarup	Group discussion, Home assignment Group Debate You tube session
	2nd	Aangal kalin Marathi Bhasheche Swarup	
	3rd	Marathi Vyutpatti- Vaidya – Gune Vad	
	4th	Eater Vichar – Marathi Bhasha	

  
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Department of Marathi – 2023-24

2.3.1:Details of course-wise application of students centric methods

Name of the Teacher: Mr. A. R. Bagul

Class Course : T.Y.B.A ( G - 3 )

Subject : Adhunik Marathi Ani Vyavharik Va Upyojit Marathi.


Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	Granth Parikshan – swarup	Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Granth Parikshan – Ghatak	
	3 <sup>rd</sup>	Granth Parikshan – Tatvik Vivechan	
	4 <sup>th</sup>	Sahitya Prakara Nusar Parikshan- Kavya, katha, kadmbari, Natak, va eater	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	Nibandha - Ek sahitya Prakar	Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Nibandhache swarup, va Vyakhya	
	3 <sup>rd</sup>	Nibandh va eater Prakar sah-sambandh	
	4 <sup>th</sup>	Nibandhache vegalepan	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	Nibandhache Prakar – Lalit, Vaicharik Etc.	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Nibandh sahitya Prakaramgil Prerana va Prayojane	
	3 <sup>rd</sup>	Vichardhara - ( Sampadit )	
	4 <sup>th</sup>	Vichardhara Nibandha- Ek Ani don	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
October	1 <sup>st</sup>	Vichardhara Nibandha-tin Ani char	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Vichardhara Nibandha- pach Ani saha	
	3 <sup>rd</sup>	Vichardhara Nibandha-sat Ani aath	
	4 <sup>th</sup>	Vichardhara Nibandha- nau Ani Daha	



Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
November	1 <sup>st</sup>	Pravas Varnan – Ek Sahitya Prakar	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Pravas varnan – Va Eater Prakar Yancha sah – sambandh	
	3 <sup>rd</sup>	Pravash Varnan – Swarup, Vishesh	
	4 <sup>th</sup>	Pravash Varnan- Vyakhya ( Vicharvantanche Vichar )	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
December	1 <sup>st</sup>	Pravas varnanache Vegalepan	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Pravas Varnan Prerana va Prayojane	
	3 <sup>rd</sup>	Pravas Varnanachi Vyapti	
	4 <sup>th</sup>	Pravas Varnanachi Vatchal	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
January	1 <sup>st</sup>	Desh Videsh – ( samapadit ) Pravas varnan	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Desh Videsh –Pravas varnan – Gangadhar Gadgil	
	3 <sup>rd</sup>	Desh Videsh –Pravas varnan – P.L. Deshapande	
	4 <sup>th</sup>	Desh Videsh –Pravas varnan- Ra Bhi joshi	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
February	1 <sup>st</sup>	Desh Videsh –Pravas varnan – Aanant kanekar	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Desh Videsh –Pravas varnan – Vasant Bapat	
	3 <sup>rd</sup>	Desh Videsh –Pravas varnan – Madhav Gadkari	
	4 <sup>th</sup>	Videsh –Pravas varnan - Swarup , Vatchal	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
March		Prachin Kalkhand – Pravas , 1818 te 1882 madhil pravas Varnaan	Power point presentation, Group discussion,
		1940 te 1965 madhil Marathi Pravas Varnane , va 1966 nantarche pravas Varnanae	Power point presentation, Group discussion,

  
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Department of Marathi – 2023-24

### 3.1:Details of course-wise application of students centric methods

Name of the Teacher: Mr. A. R. Bagul

Class Course : F.Y.B. Com ( Add. )

Subject : Atmakathan Va Vyavharik Va Upyojit Marathi.


Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	Nibandha - Ek sahitya Prakar	Group discussion, Home assignment Case study
	2 <sup>nd</sup>	Nibandhache swarup, va Vyakhya	
	3 <sup>rd</sup>	Nibandh va eateer Prakar sah-sambandh	
	4 <sup>th</sup>	Nibandhache vegalepan	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	Nibandhache Prakar – Lalit, Vaicharik Etc.	Group discussion, Home assignment Case study
	2 <sup>nd</sup>	Nibandh sahitya Prakaramgil Prerana va Prayojane	
	3 <sup>rd</sup>	Utkarsh Vata ( Sampadit )	
	4 <sup>th</sup>	Sarkari chalaval – Sheti ani Sudharana – Maharaj Sayajirao Gaikwad	
Month	Week	Name of the Unit / Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	Keli pan Sheti- Vinayak Patil	Power point presentation, Group discussion, Home assignment Case study
	2 <sup>nd</sup>	Dnyan Yugatil Netrutva- Vivek Sawant	
	3 <sup>rd</sup>	Chala Jara Kam Karuya – Rajesh Mandlik	
	4 <sup>th</sup>	Manvantar Ghadvinari Patrakarita – Gangadhar Pantavane	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
October	1 <sup>st</sup>	Shaeed Joshi Yanche Yogdan – Vasundhara Kashikar	Group discussion, Home assignment Group Debate Youtubesession
	2 <sup>nd</sup>	Bijmata- Rahibai	
	3 <sup>rd</sup>	Bi vi bi Chi Yashigatha – Reshami Bansal	
	4 <sup>th</sup>	Prabhavshali Karporete Mahila – Jyoti Nandedkar	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
November	1 <sup>st</sup>	Marga Shodhatana- Nilima Mishra	Interactive session Group discussion You tube session
	2 <sup>nd</sup>	Vanitjya Va Sahtya Sah- sambandha	
	3 <sup>rd</sup>	Lalit va Shachriv sahitya Prakar	



Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
December	1 <sup>st</sup>	Bhasha Ani Kaushlya Vikash	Power point presentation, Group discussion, Home assignment Case study
	2 <sup>nd</sup>	Aarj Lekhan va Ptra Lekhan	
	3 <sup>rd</sup>	Aarjache Vividh Prakar- vinanti, Nokari Etc.	
	4 <sup>th</sup>	Patra Lekhan- Khajagi, Prashashkiya, Vyavsayik	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
January	1 <sup>st</sup>	Prasashanik Marathi	Group discussion, Home assignment Case study
	2 <sup>nd</sup>	Eativrutt	
	3 <sup>rd</sup>	Mahiti Ptrak	
	4 <sup>th</sup>	Jahir Nivedan	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
February	1 <sup>st</sup>	Vanijya Va Mahiti Tantradnyan pari Bhashik Sandya	Group Discussion You tube session Group Debate Interactive session
	2 <sup>nd</sup>	Pragat Bhashik Kaushalye	
	3 <sup>rd</sup>	Saransh Lekhan	
	4 <sup>th</sup>	Bhashantar – English, Marathi	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
March	1 <sup>st</sup>	Jahirat Lekhan	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Aakashvani - Jahirat	
	3 <sup>rd</sup>	Vrutt Patra - Jahirat	
	4 <sup>th</sup>	Durchitravani - Jahirat	

  
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**Department of Hindi - 2023-2024**

**2.3.1: Details of course-wise application of students centric methods**

**Name of the Teacher: Asstt. Prof. D.D.Bachhav**

**Class: Course/Subject: T.Y.B.A, Spl-3**

**Subject :- Hindi Sahitya Ka Itihas**

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	<b>(A) Aadikal Our Hindi Sahitya and Principles</b> 1.Kalvibhajan 2 Namkaran , 3.Aadikal ki Prushatbhumi	Power point presentation, Group discussion, Home assignment Case study
	2 <sup>nd</sup>	4. Raso Sahitya :- Prutaviraj Raso Our Kavi Chandbardae 5. Sidha Our Nath Sahitya :- Gorakhanath Ka Parichay	
	3 <sup>rd</sup>	6 Aamir Khusro Ki Hindi Kavita 7.Aadikalin Sahitya Ki Vishestay	
	4 <sup>th</sup>	<b>(B) Hindi Sahitya</b> 1. Prutaviraj Raso Our Kavi Chandbardae	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	<b>Bhaktikal and Principles</b> 1.Bhaktikal Ke Uadya Ke Samajik ,Sanskrutik Karan ,.	You tube session Data analysis Group Discussion Interactive session Power point presentation
	2 <sup>nd</sup>	2.Bhakti Andolan ka Mahatav, Prushtabhumi. 3.Nirgun Kavya .	
	3 <sup>rd</sup>	4.Sant Kavya Ki Vishestaya, Sant Kabir Ka Parichay. 5.Suphi Kavya Ki Vishestaya ,Kavi Jaysi Ka Parichay	
	4 <sup>th</sup>	6.Ram Kavya Ki Vishestaya , Kavi Tulsidas Ka Parichay 7.Krushan Kavya Ki Vishestaya , Kavi Surdas Ka Parichay	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	<b>Ritikal and Principles</b> 1Ritikal ki Samajik, Sanskrutik Prushtabhumi.	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2.Ritikal ki Pramukha Prarutiya, 1.Ritibadh, 2.Ritisidh, 3.Ritimukt	
	3 <sup>rd</sup>	3.Samanya Parichay.	
	4 <sup>th</sup>	4. Ritibadh Kavi Kesvdas ka Samanya Parichay	






Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
October	1 <sup>st</sup>	5. Ritisidh Kavi Bihari ka Samanya Parichay. 6. Ritimukt Kavi Ghananad ka Samanya Parichay. 1. Kalvibhajan 2 Namkaran , 3. Aadikal ki Prushatbhumi	Application of Student Centric Methods Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	4. Raso Sahitya :- Prutaviraj Raso Our Kavi Chandbardae	
	3 <sup>rd</sup>	5. Sidha Our Nath Sahitya :- Gorakhanath Ka Parichay	
	4 <sup>th</sup>	6 Aamir Khusro Ki Hindi Kavita 7. Aadikalin Sahitya Ki Vishestay	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
November	1 <sup>st</sup>	<b>Bhaktikal</b>	Application of Student Centric Methods Interactive session Group discussion You tube session Power point presentation
	2 <sup>nd</sup>	1. Bhaktikal Ke Uadya Ke Samajik ,Sanskrutik Karan	
	3 <sup>rd</sup>	2. Bhakti Andolan ka Mahatav, Prushtabhumi	
	4 <sup>th</sup>	3. Nirgun Kavya 4. Sant Kavya Ki Vishestaya, Sant Kabir Ka Parichay	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
December	1 <sup>st</sup>	<b>Ritikal</b>	Application of Student Centric Methods Power point presentation, Data analysis You tube session Group discussion Interactive session
	2 <sup>nd</sup>	1. Ritikal ki Samajik, Sanskrutik Prushtabhumi	
	3 <sup>rd</sup>	2. Ritikal ki Pramukha Prarutiya, 1. Ritibadh; 2. Ritisidh, 3. Ritimukt	
	4 <sup>th</sup>	3. Samanya Parichay. 4. Ritibadh Kavi Kesvdas ka Samanya Parichay 5. Ritisidh Kavi Bihari ka Samanya Parichay. 6. Ritimukt Kavi Ghananad ka Samanya Parichay	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
January	1 <sup>st</sup>	<b>Hindi Sahitya</b> 1. Prutaviraj Raso Our Kavi Chandbardae	Application of Student Centric Methods Power point presentation, Group discussion, Home assignment Group Debate You tube session Movie screening
	2 <sup>nd</sup>	2. Sidha Our Nath Sahitya :- Gorakhanath Ka Parichay	
	3 <sup>rd</sup>	3 Aamir Khusro Ki Hindi Kavita	
	4 <sup>th</sup>	4 Aadikalin Sahitya Ki Vishestay	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
February	1 <sup>st</sup>	1. Bhaktikal Ke Uadya Ke Samajik ,Sanskrutik Karan	Application of Student Centric Methods Group Discussion You tube session
	2 <sup>nd</sup>	2. Bhakti Andolan ka Mahatav, Prushtabhumi	

Month	Week	Name of the Unit/Topic	
	3 <sup>rd</sup>	3. Nirgun Kavya	Data analysis Group Debat.
	4 <sup>th</sup>	4. Sant Kavya Ki Vishestaya, Sant Kabir Ka Parichay	Interactive session Application of Student Centric Methods
March	1 <sup>st</sup>	1. Prashanpatra ki Jankari	Power point presentation,
	2 <sup>nd</sup>	2. Aadikal, Bhaktikal Our Ritikal Ke Bare Jankari	Group discussion,
	3 <sup>rd</sup>	3. Sahitya and Principal	Home assignment Group Debate
	4 <sup>th</sup>	Prashanpatra ki Jankari & IMP	You tube session



Name & Signature of Subject Teacher: Prof. Bachhav D-D 

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Department of Hindi - 2023-2024

**2.3.1: Details of course-wise application of students centric methods**

Name of the Teacher: Asstt. Prof. D.D.Bachhav

Class: Course/Subject: S.Y.B.A SPL- 1

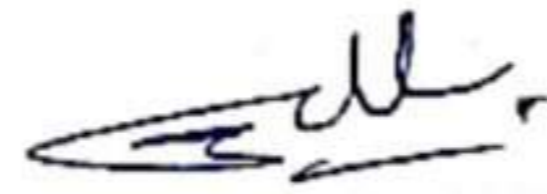
Subject: Kavyashara

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	Kavya Ki Paribhash	Power point presentation, Group discussion, Home assignment
	2 <sup>nd</sup>	Kavya Hetu Pratibha	
	3 <sup>rd</sup>	Kavya Prayojan	
	4 <sup>th</sup>	Kavya Ke Tatav	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	Bhav Tatav	You tube session. Data analysis Group Discussion Interactive session Power point presentation
	2 <sup>nd</sup>	Budhi Tatav	
	3 <sup>rd</sup>	Kalpana Tatav	
	4 <sup>th</sup>	Shaili Tatav	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	Shabda Sheti Paribhasha	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Aabhidha	
	3 <sup>rd</sup>	Lakshana	
	4 <sup>th</sup>	Vyajana	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
October	1 <sup>st</sup>	Ras Ke Aang	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Ras ke Prakar	
	3 <sup>rd</sup>	Sathahi Bhav	
	4 <sup>th</sup>	Vibhav	



nth	Week	Name of the Unit/Topic	Application of Student Centric Methods
November	1 <sup>st</sup>	Sancharibhav	Interactive session
	2 <sup>nd</sup>	Kavya Ke Vividh Bhed	Group discussion
	3 <sup>rd</sup>	Pada Ke Vividh Bhed	You tube session
	4 <sup>th</sup>	Prabhand Kavya ke Bhed	Power point presentation
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
December	1 <sup>st</sup>	Maha Kavya Our Khand Kavya	Power point presentation,
	2 <sup>nd</sup>	Gadhe Ke Bhed	Data analysis
	3 <sup>rd</sup>	Kahani	You tube session
	4 <sup>th</sup>	Upnyas, Nimbad	Group discussion Interactive session
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
January	1 <sup>st</sup>	Drushe Kavya	Power point presentation,
	2 <sup>nd</sup>	Natak	Group discussion,
	3 <sup>rd</sup>	Ekanki	Home assignment
	4 <sup>th</sup>	Gadhe Ke Bhed	Group Debate You tube session Movie screening
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
February	1 <sup>st</sup>	Bhav Tatav	Group Discussion
	2 <sup>nd</sup>	Budhi Tatav	You tube session
	3 <sup>rd</sup>	Kalpana Tatav	Data analysis
	4 <sup>th</sup>	Shaili Tatav	Group Debate Interactive session
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
March	1 <sup>st</sup>	1. Prashanpatra ki Jankari	Power point presentation,
	2 <sup>nd</sup>	2. Kavya Ke Bare Jankari	Group discussion,
	3 <sup>rd</sup>	3. Sahitya and Principal	Home assignment
	4 <sup>th</sup>	Prashanpatra ki Jankari & IMP	Group Debate You tube session



Name & Signature of Subject Teacher: Prof. Bachhav D.D. 

Maratha Vidya Prasarak Samaj's  
**Arts Commerce and Science College, Taharabad**

Tal. Baglan, Dist. Nashik



**Department of Hindi - 2023-2024**

**2.3.1: Details of course-wise application of students centric methods**

**Class: Course/Subject: T.Y,B.A SPL-4**

**Name of the Teacher: Asstt. Prof. D.D.Bachhav**

**Subject: Bhasha Vighyan**

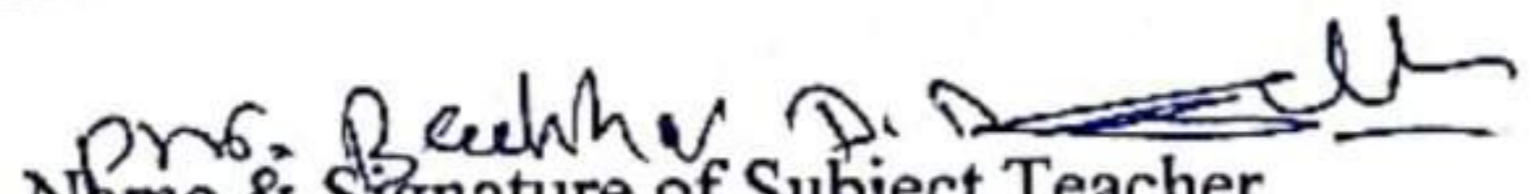
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	Kavya Ka Aarth	Power point presentation, Group discussion, Home assignment
	2 <sup>nd</sup>	Hindi Tatha Aangreji ki Paribhash	
	3 <sup>rd</sup>	Kavya ke Hetu Our Kayva Praujan	
	4 <sup>th</sup>	Kavya Ke Tatav	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	Aalankar	You tube session Data analysis Group Discussion Interactive session Power point presentation
	2 <sup>nd</sup>	Aalankar Ka Swarup	
	3 <sup>rd</sup>	Aalankar Ka Sthan	
	4 <sup>th</sup>	Aalankar Ka Parichay	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	Kavya Ke Bhed	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	MahaKavya	
	3 <sup>rd</sup>	Prabhand Kavya	
	4 <sup>th</sup>	Mukatak Kavya	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
October	1 <sup>st</sup>	Gadhe Ke Bhed	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	Upnyas,	
	3 <sup>rd</sup>	Kahani	
	4 <sup>th</sup>	Nimbad	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
November	1 <sup>st</sup>	Ras Ke Aang	Interactive session







Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
	2 <sup>nd</sup>	Ras ki Paribhash	Group discussion
	3 <sup>rd</sup>	Rash ka Samyan Parichay	You tube sess
	4 <sup>th</sup>	Rash Ke Prakar	Power point presentation
December	1 <sup>st</sup>	Aalochana.	Application of Student Centric Methods
	2 <sup>nd</sup>	Swarup	Power point presentation,
	3 <sup>rd</sup>	Udhas	Data analysis
	4 <sup>th</sup>	Prayojan	You tube session
January	1 <sup>st</sup>	Kavya Mai Chhand Ka Mahatv	Group discussion
	2 <sup>nd</sup>	Varnik Chhand	Interactive session
	3 <sup>rd</sup>	Matrik Chhand	Application of Student Centric Methods
	4 <sup>th</sup>	Chhand Ke Prakar	Power point presentation,
February	1 <sup>st</sup>	Kavya Ka Aarth	Group discussion,
	2 <sup>nd</sup>	Hindi Tatha Aangreji ki Paribhash	Home assignment
	3 <sup>rd</sup>	Kavya ke Hetu Our Kayva Prauojan	Group Debate
	4 <sup>th</sup>	Kavya Ke Tatav	You tube session
March	1 <sup>st</sup>	1. Prashanpatra ki Jankari	Movie screening
	2 <sup>nd</sup>	2. Kavya Ke Bare Jankari	Application of Student Centric Methods
	3 <sup>rd</sup>	3. Sahitya and Principal	Group Discussion
	4 <sup>th</sup>	Prashanpatra ki Jankari & IMP	You tube session

  
 Name & Signature of Subject Teacher  
**Head**  
 Department of Hindi  
 M.V.P.'s Arts, Commerce & Science  
 College Taharabad Tal. Baglan (Nasir)

Maratha Vidya Prasarak Samaj's  
**Arts Commerce and Science College, Taharabad**  
Tal. Baglan, Dist. Nashik



**Department of Hindi – 2023-2024**

**2.3.1: Details of course-wise application of students centric methods**

**Name of the Teacher: Asstt. Prof. B.B.Shingade**

**Class: Course/Subject: FYBCom.**

**Subject: Vaikalpik Hindi**

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	<b>(A)Kahani Tatha Kavya and Principles</b> 1.Kathanak, 2Patra, 3.Charitra chitran,	Power point presentation, Group discussion, Home assignment
	2 <sup>nd</sup>	4. Kathopakathan5.Desh kalvatvarn	
	3 <sup>rd</sup>	6 Bahsa Shaili7.Uadhyvash	
	4 <sup>th</sup>	<b>(B)Yvakarn</b> 1.Aank Tatha Ganitiy Chihano Ka Lekan, 2.,Hindi Kamputerinig YunikCoad	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	<b>Kavya Sahitya and Principles</b> 1.Kathanak, 2Patra, 3.Charitra chitran	You tube session Data analysis Group Discussion Interactive session Power point presentation
	2 <sup>nd</sup>	4. Kathopakathan5.Desh kalvatvarn	
	3 <sup>rd</sup>	6 Bahsa Shaili7.Uadhyvash	
	4 <sup>th</sup>	<b>Yvakarn</b> 3.Internet Ki Jankari4.Hindi Soptwer ki Jankari	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	1..Swadesh Ke Prati- SubhatraKumari	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Ho Gae Pir -Dushant Kumar 1.Kathanak, 2Patra, 3.Charitra chitran	
	3 <sup>rd</sup>	3. Bholaram Ka Jiv - Harishankar Parsai 1.Kathanak, 2Patra, 3.Charitra chitran	
	4 <sup>th</sup>	4.Uasane Kaha Tha -Chandrasharma Gulari 1.Kathanak, 2Patra, 3.Charitra chitran	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
October	1 <sup>st</sup>	1.Pita ke Jute - Ashok Vajpeyi 2. Ped Ki Pukar -Sabhunath Siha	Power point presentation, Group discussion,
	2 <sup>nd</sup>	3. Vyatha ka Sargam -Aamrutray	





	3 <sup>rd</sup>	4. Jangal Daha - SwayamPrakash	Home assignmant
	4 <sup>th</sup>	5. Sabase Katin Kam - 1. Du Kankariya	Group Debate
			You tube session
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
November	1 <sup>st</sup>	1.Uadas Tum - Dharvir Bharti	Interactivsession
	2 <sup>nd</sup>	. 1.Kathanak, 2Patra	Group discussion
	3 <sup>rd</sup>	2..Swadesh Ke Prati- SubhatraKumari	You tube session
	4 <sup>th</sup>	. . 1.Kathanak, 2Patra	Power point presentation
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
December	1 <sup>st</sup>	<b>Yvakarn</b> 1.Aank Tatha Ganitiy Chihano Ka Lekan	Power point presentation,
	2 <sup>nd</sup>	2. Ho Gae Pir -Dushant Kumar 1.Kathanak, 2Patra, 3.Charitra chitran	Yotube session
	3 <sup>rd</sup>	3 . Bholaram Ka Jiv - Harishankar Parsai. 1.Kathanak, 2Patra, 3.Charitra chitran	Group discussion
	4 <sup>th</sup>	4. Uasane Kaha Tha -Chandrasharma Gulari. 1.Kathanak, 2Patra, 3.Charitra chitran	Interactive session
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
January	1 <sup>st</sup>	1..Swadesh Ke Prati- SubhatraKumari 1.Kathanak, 2Patra, 3.Charitra chitran	Power point presentation, Group discussion,
	2 <sup>nd</sup>	4. Kathopakathan5.Desh kalvatvarn	Homeassignmen
	3 <sup>rd</sup>	6 Bahsa Shaili7.Uadhyvash	Group Debate
	4 <sup>th</sup>	. <b>Yvakarn</b> 1.Internet Ki Jankari	Youtub session
			Moie screenig
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
February	1 <sup>st</sup>	2.Hindi Soptwer ki Jankari	GroupDiscussin
	2 <sup>nd</sup>	3.Aank Tatha Ganitiy Chihano Ka Lekan	You tube session
	3 <sup>rd</sup>	4.Prashanpatra ki Jankari	Group Debate
	4 <sup>th</sup>	5. Kahani ke Bare mai Jankakri	Interave session
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
March	1 <sup>st</sup>	1.Prashanpatra ki Jankari	Power point presentation,
	2 <sup>nd</sup>	2. Kavya Ke Bare Jankari	Group discussion,
	3 <sup>rd</sup>	3. Sahitya and Principal	Home assignment
	4 <sup>th</sup>	4. Prashnpatra ki Jankari & IMP	You tube session

Name & Signature of Subject Teacher: *Prof. B. B. Shingade*

Maratha Vidya Prasarak Samaj's  
**Arts Commerce and Science College, Taharabad**  
Tal. Baglan, Dist. Nashik



Department of Hindi 2023-2024

**2.3.1: Details of course-wise application of students centric methods**  
Name of the Teacher: Asstt. Prof. B.B.Shingade  
Subject: Vaikalpik Hindi

Class: Course/Subject:F.Y.B.A

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	<b>(A)Kahani Tatha Kavya and Principles</b> 1.Kathanak, 2Patra, 3.Charitra chitran	Power point presentation, Group discussion, Home assignment Case study
	2 <sup>nd</sup>	4. Kathopakathan 5.Desh kalvatvarn	
	3 <sup>rd</sup>	6 Bahsa Shaili 7.Uadhyvash	
	4 <sup>th</sup>	<b>(B)Yvakarn</b> 1.Savand kaushal, Sutrasanchalan,Samuhachrcha	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	<b>Kavya Sahitya and Principles</b> 1.Kathanak, 2Patra, 3.Charitra chitran	You tube session Data analysis Group Discussion Interactive session Power point presentation
	2 <sup>nd</sup>	4. Kathopakathan 5.Desh kalvatvarn	
	3 <sup>rd</sup>	6 Bahsa Shaili 7.Uadhyvash	
	4 <sup>th</sup>	<b>Yvakarn</b> 1.Hindi Kamputering. vunikcoad	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	1.Ek Tokari Bhar Mitti - Madhavrao sapre 1.Kathanak, 2Patra	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2.Edagah - Premchand. 1.Kathanak, 2Patra	
	3 <sup>rd</sup>	3.Jindgi Aur Gulab Ke Phul -Usha Priyvanda	
	4 <sup>th</sup>	4. Yudha -Shani 1.Kathanak, 2Patra	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods





March	1 <sup>st</sup>	1. Prashanpatra ki Jankari	Power point presentation,
	2 <sup>nd</sup>	2. Kavya Ke Bare Jankari	Group discussion,
	3 <sup>rd</sup>	3. Sahitya and Principal	Home assignment
	4 <sup>th</sup>	Prashanpatra ki Jankari & IMP	Group Debate
			You tube session



Name & Signature of Subject Teacher: prof. Shingade, B. B. [Signature]

Maratha Vidya Prasarak Samaj's  
**Arts Commerce and Science College, Taharabad**

Tal. Baglan, Dist. Nashik



Department of Hindi - 2023-2024

**2.3.1: Details of course-wise application of students centric methods**

**Name of the Teacher: Asstt. Prof. B.B.Shingade**

**Class: Course/Subject:S.Y.B.A, Gen-2**

**Subject: Aadhunik Kahani Kavya Our Vyaharik Hindi**

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
July	1 <sup>st</sup>	<b>(A)Kahani Tatha Kavya and Principles</b> 1.Kathanak, 2Patra, 3.Charitra chitran	Power point presentation, Group discussion, Home assignment Case study
	2 <sup>nd</sup>	4. Kathopakathan 5.Desh kalvatvarn	
	3 <sup>rd</sup>	6 Bahsa Shaili 7.Uadhyvash	
	4 <sup>th</sup>	<b>(B)Yvakarn</b> 1.Hindi Kark Vyasatha	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	<b>Kavya Sahitya and Principles</b> 1.Kathanak, 2Patra, 3.Charitra chitran	You tube session Data analysis Group Discussion Interactive session Power point presentation
	2 <sup>nd</sup>	4. Kathopakathan 5.Desh kalvatvarn	
	3 <sup>rd</sup>	6 Bahsa Shaili 7.Uadhyvash	
	4 <sup>th</sup>	<b>Yvakarn</b> 1.Shabda Yugam	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	1.Nacha -Aadyan 1.Kathanak, 2Patra	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2.Desh Kagaj Par Bana Nakhsa Nahi Hota -Sarveshwor Sakshena. 1.Kathanak, 2Patra	
	3 <sup>rd</sup>	3.Eklawe Se Sawand -Aanuj Lgun	
	4 <sup>th</sup>	4. Hoki Khelti Ladkiya -Kathyani 1.Kathanak, 2Patra	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods





October	1 <sup>st</sup>	1.Kuda Binte Bachhe - Annamika 1.Kathanak, 2Patra	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2.Dharti Aabhi Ghum Rahi Hai- Vishanu Prabhakar	
	3 <sup>rd</sup>	3.Dusare - Kamaleswor 1.Kathanak, 2Patra	
	4 <sup>th</sup>	4 Saja - MAnnu Bhandari 1.Kathanak, 2Patra 5.Salam -Omprakash 1.Kathanak, 2Patra	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
November	1 <sup>st</sup>	<b>Yvakarn</b> 1.Sansepan	Interactive session Group discussion You tube session Power point presentation
	2 <sup>nd</sup>	2.Chhavani Mai Beghar -Aalpana Misra	
	3 <sup>rd</sup>	3. 1.Kathanak, 2Patra	
	4 <sup>th</sup>	4. Nacha -Aadyan . 1.Charitra chitran .24.Kathopakathan	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
December	1 <sup>st</sup>	1 Desh Kagaj Par Bana Nakhsa Nahi Hota - Sarveshwor... 1.Charitra chitran . 2.Kathopakathan	Power point presentation, Data analysis You tube session Group discussion Interactive session
	2 <sup>nd</sup>	2. Eklawe Se Sawand -Aanuj Lgun 1.Kathanak, 2Patra	
	3 <sup>rd</sup>	3. Hoki Khelti Ladkiya -Kathyani 1.Charitra chitran . 2.Kathopakathan	
	4 <sup>th</sup>	4. . Kuda Binte Bachhe -Annamika 1.Charitra chitran . 2.Kathopakathan	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
January	1 <sup>st</sup>	<b>. Yvakarn</b> 1.Shabda Yugam	Power point presentation, Group discussion, Home assignment Group Debate You tube session Movie screening
	2 <sup>nd</sup>	2. Dharti Aabhi Ghum Rahi Hai- Vishanu Prabhakar	
	3 <sup>rd</sup>	3. Dusare - Kamaleswor	
	4 <sup>th</sup>	4. Saja - MAnnu Bhandari 1.Charitra chitran . 2.Kathopakathan	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
February	1 <sup>st</sup>	1. Salam -Omprakash 1.Charitra chitran . 2.Kathopakathan	Group Discussion You tube session Data analysis Group Debate Interactive session
	2 <sup>nd</sup>	2. Chhavani Mai Beghar -Aalpana Misra	
	3 <sup>rd</sup>	3. <b>Yvakarn</b> 1. 1.Shabda Yugam	
	4 <sup>th</sup>	. Dharti Aabhi Ghum Rahi Hai- Vishanu Prabhakar	






Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
March	1 <sup>st</sup>	1. Prashanpatra ki Jankari	Power point presentation, Group discussion, Home assignment Group Debate You tube session
	2 <sup>nd</sup>	2. Kavya Ke Bare Jankari	
	3 <sup>rd</sup>	3. Sahitya and Principal	
	4 <sup>th</sup>	Prashanpatra ki Jankari & IMP	



Name & Signature of Subject Teacher:

mt Shingade B.B 





Maratha Vidya Prasarak Samaj's  
Arts, Commerce and Science College, Taharabad  
Tal. Baglan, Dist. Nashik

Department of Political Science- 2023-2024

2.3.1: Details of course-wise application of students centric methods

Name of the Teacher: Asst .Prof. Dr. G. M. Limbole

Class: Course/Subject: F. Y. B.A.

Subject: Political Science (G-1) Introduction to Indian Constitution

Month	Week	Name of the Unit/Topic	
July	1 <sup>st</sup>		
	2 <sup>nd</sup>		
	3 <sup>rd</sup>		
	4 <sup>th</sup>		

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>1) Making of the Indian Constitution</b>	
August	1 <sup>st</sup>	A) Historical Background	Interactive session
	2 <sup>nd</sup>	B) Constituent Assembly	You tube session
	3 <sup>rd</sup>	C) Preamble	Interactive session
	4 <sup>th</sup>	D) Salient Features	Power point presentation

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>2) Fundamental Rights, Duties and Directive Principles</b>	
September	1 <sup>st</sup>	a) Fundamental Rights	Interactive session
	2 <sup>nd</sup>	b) Fundamental Duties	Group discussion, Home assignment
	3 <sup>rd</sup>	c) Directive Principles of State Policy	Interactive session
	4 <sup>th</sup>	c) Directive Principles of State Policy	





Maratha Vidya Prasarak Samaj's  
Arts, Commerce and Science College, Taharabad  
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Department of Chemistry - 2023-2024

2.3.1: Details of course-wise application of students centric methods

Name of the Teacher: Asst. Prof. S.V. Khonde.

Class: Course/Subject: S. Y. B.Sc

Subject: CH-301: Physical and Analytical Chemistry [Credit -2, 36 L]

Month	Week	Name of the Unit/Topic	Introduction.
July	1 <sup>st</sup>	1. Chemical Kinetics: Introduction to kinetics, the rates of chemical reactions – definition of rates, rate laws and rate constants, reaction order and molecularity, determination of rate law, factors affecting reaction rates	Interactive session
	2 <sup>nd</sup>	Interpretation of Arrhenius parameters, reaction dynamics - collision theory and transition-state theory of bimolecular reactions, comparison of the two theories.	Interactive session
	3 <sup>rd</sup>	Problems.	Power point presentation
	4 <sup>th</sup>	2. Surface Chemistry	
August	1 <sup>st</sup>	Introduction to surface chemistry - some basic terms related to surface chemistry adsorption, adsorption materials, factors affecting adsorption	Application of Student Centric Methods
	2 <sup>nd</sup>	characteristics of adsorption, types of adsorption, classification of adsorption isotherms, Langmuir adsorption isotherm, Freundlich's adsorption isotherm, BET theory (only introduction).	Interactive session You tube session
	3 <sup>rd</sup>	application of adsorption	Interactive session
	4 <sup>th</sup>	Problems.	Power point presentation
September	1 <sup>st</sup>	3. Errors in Quantitative Analysis Introduction to errors, limitations of analytical methods, classifications of errors, accuracy, precision,	Application of Student Centric Methods Interactive session



Subject- CH-302: Inorganic and Organic Chemistry

Class: Course/Subject: S. Y. B.Sc



Month	Week	1. Molecular Orbital Theory of Covalent Bonding	Application of Student Centric Methods
January	1 <sup>st</sup>	Introduction to Molecular Orbital Method (MOT) and postulates of MO theory, LCAO approximation, s-s combination of orbitals, s-p combination of orbitals, p-p combination of orbitals, p-d combination of orbitals, d-d combination of orbitals, nonbonding combination of orbitals	Power point presentation,
	2 <sup>nd</sup>	2 Rules for linear combination of atomic orbitals, example of molecular orbital treatment for homonuclear diatomic molecules.	Interactive session ,
	3 <sup>rd</sup>	Explain following molecules with respect to MO energy level diagram. bond order and magnetism	Group Debate
	4 <sup>th</sup>	H <sub>2</sub> + molecule ion, H <sub>2</sub> molecule, He <sub>2</sub> + molecule ion, He <sub>2</sub> molecule, Li <sub>2</sub> molecule, Be <sub>2</sub> molecule, B <sub>2</sub> molecule, C <sub>2</sub> molecule, N <sub>2</sub> molecule, O <sub>2</sub> molecule, O <sub>2</sub> <sup>-</sup> and O <sub>2</sub> <sup>2-</sup> ion, F <sub>2</sub> molecule, Heteronuclear diatomic molecules: NO, CO, HF.	Interactive session Home assignment

Month	Week	3. Introduction to Coordination Compounds	Application of Student Centric Methods
February	1 <sup>st</sup>	Double salt and coordination compound, basic definitions: coordinate bond, ligand, types of ligands	Interactive session
	2 <sup>nd</sup>	chelate, central metal ion, charge on complex ion, calculation of oxidation state of central metal ion, metal ligand ratio: Werner's work and theory, Effective atomic	Power point presentation Interactive session
	3 <sup>rd</sup>	postulates of MO theory, LCAO approximation, s-s combination of orbitals, s-p combination of orbitals, p-p	Group discussion,
	4 <sup>th</sup>		

Month	Week	4. Alkyl and Aryl Halides:	Application of Student Centric Methods
March	1 <sup>st</sup>	Introduction and IUPAC nomenclature, Types of Nucleophilic Substitution (SN <sub>1</sub> , SN <sub>2</sub> and SN <sub>i</sub> ) reactions.	Interactive session
	2 <sup>nd</sup>	Preparation: from alkenes and alcohols. Reactions: hydrolysis, nitrite & nitro formation, nitrile	Power point presentation
	3 <sup>rd</sup>	isonitrile formation. Williamson's ether synthesis:	Interactive session



	Elimination vs. substitution.	Home assignment
	Aryl Halides: Introduction and IUPAC nomenclature, Preparation: (Chloro, bromo and iodo-benzene case): from phenol, Sandmeyer and Gattermann reactions. Reactions (Chlorobenzene): Aromatic nucleophilic substitution (replacement by -OH group) and effect of nitro substituent. Benzyne Mechanism: $\text{KNH}_2/\text{NH}_3$ (or $\text{NaNH}_2/\text{NH}_3$ ). Reactivity and Relative strength of C-Halogen bond in alkyl, allyl, benzyl, vinyl and aryl halides.	

Name & Signature of Subject Teacher - Dr. K. K. K.





Maratha Vidya Prasarak Samaj's  
Arts, Commerce and Science College, Taharabad  
Tal. Baglan, Dist. Nashik



Department of Chemistry- 2023-2024

2.3.1: Details of course-wise application of students centric methods

Class: Course/Subject: F. Y. B.Sc

Name of the Teacher: S.V.Khonde

Subject: CH- 101: Physical Chemistry

Month	Week	Name of the Unit/Topic	
	1st	1. Chemical Energetics	Interactive
	2nd	Review of thermodynamics and the Laws of Thermodynamics. Important principles and definitions of thermochemistry.	
	3rd	Concept of standard state and standard enthalpies of formation.	
	4th	Calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data.	

Month	Week	2. Chemical Equilibrium:	
July	1st	Introduction: Free Energy and equilibrium - Concept, Definition and significance	Interactive session Group discussion Power point presentation, Power point presentation,
	2nd	The reaction Gibbs Energy, Exergonic and endergonic reaction.	
	3rd	The response of equilibria to conditions- response to pressure, response to temperature, Van't Haff equation, Value of K at different temperature.	
	4th	Problems	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
August	1st	3. Ionic Equilibria	Power point presentation, Interactive session Group discussion,
	2nd	Strong, moderate and weak electrolytes, degree of ionization, factors affecting degree of ionization, ionization constant and ionic product of water.	



3rd	Ionization of weak acids and bases, pI scale, common ion effect	Home assignment
4th	Buffer solutions. Solubility and solubility product of sparingly soluble salts - applications of solubility product principle.	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1st	1. Importance of chemical safety and Lab safety while performing experiments in laboratory	Interactive session
	2nd	2. Determination of thermochemical parameters and related concepts	Home assignment
	3rd	4. Preparation of buffer solutions	Interactive session
	4th	5. Elemental analysis of organic compounds (non instrumental)	Interactive session
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
October	1st	Important principles and definitions of thermochemistry.	Interactive session
	2nd	The perfect gas equilibrium	session
	3rd	applications of solubility product principle.	Power point presentation,
	4th	definitions of thermochemistry.	Power point presentation,

Month	Week	Application of Student Centric Methods
November	1st	Interactive session
	2nd	Power point presentation,
	3rd	Interactive session
	4th	You tube session
		Group discussion

Month	Week	Name of the Unit/T	Application of Student Centric Methods
December	1st		Interactive session
	2nd	Study of the solubility of benzoic acid in water and	Interactive session ,

		determination of $\Delta H$ .	
	3rd	Measurement of pH of different solutions	Group Debate
	4th	Students Students	Interactive session
			Home assignment

January		Name of the UNIT	
	1st	Various theories and principles applied to reveal atomic structure	Interactive session Interactive session
	2nd	1. Determination of heat capacity of calorimeter for different volumes.	Power point presentation Interactive session
	3rd	5. Determination of enthalpy of hydration of copper sulphate	Group discussion,
	4th		

Month	Week	Name of the Unit/Topic Unit 8 : International Organization	Application of Student Centric Methods
February	1st	Molar concentrations	Interactive session
	2nd	lution –dilutant volume ration	Power point presentation Interactive session
March	3rd	Significance of quantum numbers	Interactive session Home assignment
	4th	Chemical Stoichiometry	

Name & Signature of Subject Teacher : S. V. Khonde.

(*S. V. Khonde*)





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Tal. Baglan, Dist. Nashik



Department of Chemistry- 2023-2024

2.3.1: Details of course-wise application of students centric methods

Class: Course/Subject: T.Y.B.Sc.

Name of the Teacher: S.V Khonde.

Subject: CH-501: Physical Chemistry- I

Month	Week	Name of the Unit/Topic	
July	1 <sup>st</sup>	1. Quantum Chemistry	
	2 <sup>nd</sup>	Introduction, de Broglie hypothesis, The Heisenberg's uncertainty principle, quantisation of energy, Operators, Schrodinger wave equation	
	3 <sup>rd</sup>	Physical interpretation of the $\psi$ and $\psi^2$ , sketching of wave function.	
	4 <sup>th</sup>	probability densities for 1D box, degeneracy, applications to conjugated systems	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	zero-point energy and quantum tunnelling, Numerica	Interactive session Groupdiscussion, Interactive session Power point presentation
	2 <sup>nd</sup>	2. Investigation of Molecular structure	
	3 <sup>rd</sup>	Introduction: Molar refraction and molecular structure, Dipole moment and molecular structure	
	4 <sup>th</sup>	Determination of bond length and moment of inertia from rotational spectra, Problems	

Month	Week	Name of the Unit/Topic.	Application of Student Centric Methods
September	1 <sup>st</sup>	electromagnetic spectrum, energy of molecules	Interactive session Groupdiscussion,
	2 <sup>nd</sup>	Types of molecular spectra.	



	3rd	Microwave Spectroscopy	Homeassignment Interactive session
	4th	Introduction, Classification of molecules on the basis of moment of Inertia, Rotational spectra of rigid diatomic molecules,	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
October	1st	Infrared Spectroscopy: I	Interactive session , Group discussion, Home assignment Interactive session
	2nd	Introduction, Simple Harmonic oscillator, Modes of vibration, force constant	
	3rd	Selection rule, Vibrational energy level diagram with transitions, spectrum depiction, Vibration-rotation Spectra	
	4th		
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
November	1st	Selection rules, Vibrational-rotational energy level diagram with transitions, Nature of vibrational spectra, P, Q and R branches of lines of the IR spectra.	Interactive session Group discussion Interactive session Power point presentation,
	2nd	Problems.	
	3rd	Raman Spectroscopy	
	4th	Introduction, Classical and Quantum theory of Raman effect	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
December	1st	3. Photochemistry	Interactive session
	2nd	Introduction, Difference between thermal and photochemical processes, Laws of photochemistry	Power point presentation,
	3rd	i) Grothus - Draper law ii) Stark-Einstein law, Quantum yield, Reasons for high and low quantum yield	Interactive session
	4th	Factors affecting Quantum yield, Experimental method for the determination of quantum yield, types of photochemical reactions	Group discussion

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods

January	1st	photosynthesis, photolysis, photosensitization.	Power point presentation,
	2nd	photocatalysis,	Interactive session ,
	3rd	Jablonski diagram depicting various processes occurring in the excited stat	Group Debate
	4th	Qualitative description of fluorescence	Interactive session Home assignment

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
February	1st	phosphorescence,	Interactive session
	2nd	types of photochemical reactions	Interactive session
	3rd	Difference between thermal and photochemical processes.	Power point presentation
	4th	Rotational Raman spectrum	Interactive session Group discussion,

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
March	1st	Quantum theory	Interactive session
	2nd	Quantum yield and reasons for high and low quantum yield,	Power point presentation
	3rd	Dipole moment and its experimental determination by temperature variation method.	Interactive session
	4th	Raman spectra: Concept of polarizability,	Group discussion,

Name & Signature of Subject Teacher, S.V.Khonde.

(*S.V.Khonde*)





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Department of Chemistry- 2023-2024

2.3.1: Details of course-wise application of students centric methods

Class: Course/Subject: S.Y.BSc.

Name of the Teacher: V.S.Raundal.

Subject: CH-401: Physical and Analytical Chemistry

Month	Week	Name of the Unit/Topic
July	1 <sup>st</sup>	Phase equilibrium
	2 <sup>nd</sup>	Introduction; definitions of phase, components and degrees of freedom of a system; stability of phases
	3 <sup>rd</sup>	criteria of phase equilibrium. Gibbs phase rule and its thermodynamic derivation
	4 <sup>th</sup>	phase diagrams of one- component systems- water.

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	carbon dioxide and sulphur systems	Interactive session
	2 <sup>nd</sup>	problems	Interactive session
	3 <sup>rd</sup>	2. Ideal and real solutions	Power point presentation
	4 <sup>th</sup>	Introduction, chemical potential of liquids - ideal solutions, ideal dilute solutions - Raoult's and Henry's Law, liquid mixtures	Groupdiscussion
		phase diagram of binary systems	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	liquids - vapour pressure diagrams,	Interactive session
	2 <sup>nd</sup>	temperature composition diagrams	Groupdiscussion,
	3 <sup>rd</sup>	liquid-liquid phase diagrams,	Homeassignment
	4 <sup>th</sup>	solubility of partially miscible liquids-critical solution temperature,	Interactive session



		phase diagram of binary systems	
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Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1st	liquids - vapour pressure diagrams,	Interactive session Group discussion, Home assignment Interactive session
	2nd	temperature composition diagrams	
	3rd	liquid-liquid phase diagrams,	
	4th	solubility of partially miscible liquids-critical solution temperature,	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
October	1st	effect of impurity on partially miscible liquids,	Power point presentation, Group discussion, Home assignment Interactive session
	2nd	3. Conductometry [6 L] Introduction, E	
	3rd	Resistance, conductance, Ohm's law, cell constant, specific	
	4th	equivalent conductance, molar conductance, variation of equivalent	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
November	1st	specific conductance with concentrations, Kohlrausch's law	Interactive session Group discussion You tube session, Power point presentation,
	2nd	Kohlrausch's law and its applications, conductivity cell, c	
	3rd	conductivity meter, Whetstone Bridge,	
	4th	determination of cell constant,	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
December	1st	Colorimetry:	Interactive session Power point presentation, You tube session ,
	2nd	Introduction, interaction of electromagnetic radiation with matter, essential terms: radiant power	
	3rd	transmittance, absorbance, molar, Lamberts Law, Beer's Law, Lambert-Beer's Law, molar absorptivity	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		Unit 6: Mediatization of Politics	

		phase diagram of binary systems	
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Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1st	liquids - vapour pressure diagrams,	Interactive session Group discussion, Home assignment Interactive session
	2nd	temperature composition diagrams	
	3rd	liquid-liquid phase diagrams,	
	4th	solubility of partially miscible liquids-critical solution temperature,	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
October	1st	effect of impurity on partially miscible liquids,	Power point presentation, Group discussion, Home assignment Interactive session
	2nd	3. Conductometry [6 L] Introduction, E	
	3rd	Resistance, conductance, Ohm's law, cell constant, specific	
	4th	equivalent conductance, molar conductance, variation of equivalent	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
November	1st	specific conductance with concentrations, Kohlrausch's law	Interactive session Group discussion You tube session, Power point presentation,
	2nd	Kohlrausch's law and its applications, conductivity cell, c	
	3rd	conductivity meter, Whetstone Bridge,	
	4th	determination of cell constant,	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
December	1st	Colorimetry:	Interactive session Power point presentation, You tube session , Interactive session You tube session ,
	2nd	Introduction, interaction of electromagnetic radiation with matter, essential terms: radiant power	
	3rd	transmittance, absorbance, molar, Lamberts Law, Beer's Law, Lambert-Beer's Law, molar absorptivity	


Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		Unit 6: Mediatisation of Politics	



January	1st	By calibration curve method,	Power point presentation, Interactive session ,  Group Debate Interactive session Home assignment
	2nd	Determination of unknown concentration of Fe(III) by thiocyanate method,	
	3rd	Numericals.	
	4th	Column Chromatography	

Month	Week	Name of the Unit/To	Application of Student Centric Methods
February	1st	Introduction, Principle of Column Chromatography	Interactive session
	2nd	Ion Exchange Chromatography: I	Interactive session
	3rd	Ion exchange resins, action of ion exchange resin	Power point presentation
	4th	Experimental technique,	Interactive session Group discussion,

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
March	1st	Purification of water	Interactive session
	2nd	Adsorption Chromatography	Interactive session
	3rd	: Introduction, the technique of conventional chromatography	Group discussion
		Application – Purification of anthracene	Group discussion,

Name & Signature of Subject Teacher -V.S.Raundal. 





Maratha Vidya Prasarak Samaj's  
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Academic Year 2023-2024

## Report of course-wise application of students centric methods

All the concerned subject teachers of the department of Physics used innovative teaching method for B.sc. courses in the academic year 2023-2024. For the F.Y.BSc.-Physics principles and it's Applications, Mechanics and properties of matters S.Y.BSc- Mathematical methods for physics, Electronics. Following subject student specific centric methods used for teaching:

Following subject student specific centric methods used for teaching

Class assignment
Group Debate
Interactive session
Power point presentation
Group discussion,
Topic related movie screening
Contain related examples
Online Teaching (Zoom App/ Google Meet App)
You Tube Session

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Head Of Department  
Department Of Physics  
M.V.P's Arts, Commerce & Science  
College Taharabad Tal. Baglan (Nashik)

Dr. V. B. Kale  
Principal  
M. V. P. Samaj's  
Arts, Commerce & Science Collage  
Taharabad Tal. Baglan Dist. Nashik







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Arts, Commerce and Science College, Taharabad  
Tal. Baglan, Dist. Nashik

Department of Physics- 2023-2024

Details of course-wise application of students centric methods

Name of the Teacher: Asst. Prof. S. B. Ahire.

Class: Course/Subject: F.Y.B.Sc

Subject: (PHY-111) Mechanics and Properties of Matter

Month	Week	Name of the Unit/Topic	
July	1st		
	2nd		
	3rd		
	4th		

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>1 MOTION</b>	
August	1st	a) Introduction of motion & their types	Interactive session
	2nd	b) displacement, Velocity, Accelerations	You tube session
	3rd	c) inertia, Newtons Laws:-1st, 2nd, 3rd Law Explanations	Interactive session
	4th	d) Fram Of references, Laws Of Motion & Real Life Uses, Problems.	Power point presentation

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>2. WORK AND ENERGY</b>	
September	1st	a) Kinetic Energy, Potential Energy, Workdone	Interactive session
	2nd	b) Work Energy Theorem, Workdone With Constant Force	Group discussion,
	3rd	c) Laws Of Energy Conservation, Gravitationl Potensial	Home assignment





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Department of Physics- 2023-2024

Details of course-wise application of students centric methods

Name of the Teacher: Asst. Prof. S. B. Ahire.

Class: Course/Subject: F.Y.B.Sc

Subject: (PHY-122) Electricity and Magnetism.

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>1. Electrostatics</b>	
December	1 <sup>st</sup>	1.1 Revision of Coulomb's law: 1.1.1 Statement 1.1.2 Variation of forces with distances 1.2 Superposition principle: 1.2.1 Statement 1.2.2 Explanation with illustration	Interactive session You tube session Interactive session Power point presentation
	2 <sup>nd</sup>	1.3 Energy of system of charges 1.4 Concept of electric field 1.4.1 Due to point charge 1.4.2 Due to group charges	
	3 <sup>rd</sup>	1.5 Concept of electric flux 1.6 Gauss's law in electrostatics	
	4 <sup>th</sup>	Problems	
		<b>2. Dielectrics</b>	
January	1 <sup>st</sup>	2.1 Introduction to dielectric materials 2.2 Electric Dipole 2.2.1 Electric dipole 2.2.2 Dipole moment	Interactive session You tube session Interactive session



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Tal. Baglan, Dist. Nashik

Department of Physics- 2023-2024

Details of course-wise application of students centric methods

Name of the Teacher: Asst. Prof. S. B. Ahire.  
Subject: (PHY-122) Electricity and Magnetism.

Class: Course/Subject: F.Y.B.Sc

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>1. Electrostatics</b>	
December	1 <sup>st</sup>	1.1 Revision of Coulomb's law: 1.1.1 Statement 1.1.2 Variation of forces with distances	Interactive session You tube session Interactive session Power point presentation
	2 <sup>nd</sup>	1.2 Superposition principle: 1.2.1 Statement 1.2.2 Explanation with illustration	
	3 <sup>rd</sup>	1.3 Energy of system of charges 1.4 Concept of electric field 1.4.1 Due to point charge 1.4.2 Due to group charges	
	4 <sup>th</sup>	1.5 Concept of electric flux 1.6 Gauss's law in electrostatics	
		Problems	
		<b>2. Dielectrics</b>	
January	1 <sup>st</sup>	2.1 Introduction to dielectric materials 2.2 Electric Dipole 2.2.1 Electric dipole 2.2.2 Dipole moment	Interactive session You tube session Interactive session





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Department of Physics- 2023-2024

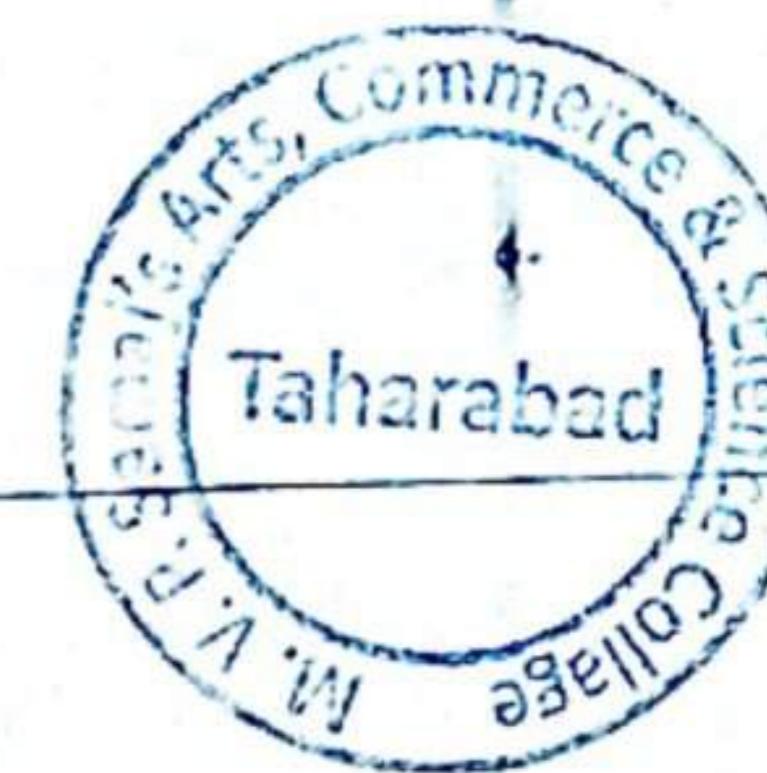
Details of course-wise application of students centric methods

Name of the Teacher: Asst. Prof. S. B. Ahire.

Class: Course/Subject: F.Y.B.Sc

Subject: (PHY-122) Electricity and Magnetism.

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>1. Electrostatics</b>	
December	1 <sup>st</sup>	1.1 Revision of Coulomb's law: 1.1.1 Statement 1.1.2 Variation of forces with distances 1.2 Superposition principle: 1.2.1 Statement 1.2.2 Explanation with illustration	Interactive session You tube session Interactive session Power point presentation
	2 <sup>nd</sup>	1.3 Energy of system of charges 1.4 Concept of electric field 1.4.1 Due to point charge 1.4.2 Due to group charges	
	3 <sup>rd</sup>	1.5 Concept of electric flux 1.6 Gauss's law in electrostatics	
	4 <sup>th</sup>	Problems	
		<b>2. Dielectrics</b>	
January	1 <sup>st</sup>	2.1 Introduction to dielectric materials 2.2 Electric Dipole 2.2.1 Electric dipole 2.2.2 Dipole moment	Interactive session You tube session Interactive session



			Power point presentation
	2 <sup>nd</sup>	2.3 Electric potential and intensity at any point due to dipole	
	3 <sup>rd</sup>	2.4 Torque on a dipole placed in an electric field 2.5 Polar and non-polar molecules	
	4 <sup>th</sup>	2.6 Electric polarization of dielectric material 2.7 Gauss' law in dielectric 2.8 Electric vectors and its relation Problems	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>3. Magnetization</b>	
February	1 <sup>st</sup>	3.1 Introduction to Magnetization 3.2 Magnetic materials 3.3 Types of Magnetic Materials	Interactive session Group discussion, Home assignment Interactive session
	2 <sup>nd</sup>	3.3.1 Diamagnetic materials 3.3.2 Paramagnetic materials 3.3.3 Ferromagnetic materials	
	3 <sup>rd</sup>	3.3.4 Antiferromagnetic materials 3.4 Bohr magnetron Problems	
	4 <sup>th</sup>	Problems	
		<b>4. Magnetostatics</b>	
March	1 <sup>st</sup>	4.1 Introduction to magnetization, 4.2 Magnetic Induction and Intensity of magnetization 4.3 Biot-Savart's law: 4.3.1 Statement 4.3.2 Long straight conductor 4.3.3 Circular Coi	Interactive session You tube session Interactive session Power point presentation
	2 <sup>nd</sup>	4.4 Ampere's circuital law: 4.4.1 Statement	



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Department of Physics- 2023-2024

Details of course-wise application of students centric methods

Name of the Teacher: Asst. Prof. S. B. Ahire.

Class: Course/Subject: F.Y.B.Sc

Subject: (PHY-121) Heat and Thermodynamics

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
<b>1. Fundamentals of Thermodynamics</b>			
December	1 <sup>st</sup>	Concept of thermodynamic state, Equation of state, Van der Waal's equation of state, Thermal equilibrium	Interactive session You tube session
	2 <sup>nd</sup>	Zeroth law of thermodynamics, Thermodynamic processes: Adiabatic, Isothermal, Isobaric and Isochoric changes	Interactive session Power point presentation
	3 <sup>rd</sup>	Indicator diagram, Work done during isothermal change, Adiabatic relations, Work done during adiabatic change	
	4 <sup>th</sup>	Internal energy, Internal energy as state function, First law of thermodynamics, Reversible and Irreversible changes, Problems.	
<b>2. Applied Thermodynamics:</b>			
January	1 <sup>st</sup>	Conversion of heat into work and it's converse	Interactive session You tube session
	2 <sup>nd</sup>	Second law of thermodynamics, Concept of entropy, Temperature - entropy diagram,	Interactive session Power point presentation
	3 <sup>rd</sup>	T-dS equations, Clausius - Clapeyron latent heat equations	
	4 <sup>th</sup>	Problems.	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
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		3. Heat Transfer Mechanisms	
February	1 <sup>st</sup>	Carnot's cycle and Carnot's heat engine and its efficiency	Interactive session Group discussion, Home assignment Interactive session
	2 <sup>nd</sup>	Heat Engines: Otto cycle & its efficiency, Diesel cycle & its efficiency	
	3 <sup>rd</sup>	Refrigerators: General principle and coefficient of performance of refrigerator, Simple structure of Vapour compression refrigerator	
	4 <sup>th</sup>	Air Conditioning: Principle and it's applications, Problems	

		Application of Student Centric Methods	
Month	Week	Name of the Unit/Topic	
		<b>4. Thermometry</b>	
March	1 <sup>st</sup>	Concept of heat & temperature, Principle of thermometry	Interactive session You tube session Interactive session Power point presentation
	2 <sup>nd</sup>	Temperature scales & inter-conversions, Principle, Construction and Working: (Liquid thermometers, Liquid filled thermometers, Gas filled thermometers, Bimetallic thermometers, Platinum resistance thermometer, Thermocouple)	
	3 <sup>rd</sup>	Problems.	

Name & Signature of Subject Teacher: Prof. S. B. Ahire

  
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Tal. Baglan, Dist. Nashik

Department of Physics- 2023-2024

Details of course-wise application of students centric methods

Name of the Teacher: Asst. Prof. S. B. Ahire.

Class: Course/Subject: F.Y.B.Sc

Subject: (PHY-242) Optics

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>1. Geometrical optics and Lens aberrations:</b>	
December	1 <sup>st</sup>	(a) <b>Geometrical optics:</b> 1.1 Introduction to lenses and sign conventions. 1.2 Thin lenses: Lens equation for single convex lens	Interactive session You tube session Interactive session
	2 <sup>nd</sup>	1.3 Lens maker equation 1.4 Concept of magnification, deviation and power of a thin lens 1.5 Equivalent focal length of two thin lens system	Power point presentation
	3 <sup>rd</sup>	1.6 Concept of cardinal points 1.7 Problems	
	4 <sup>th</sup>	(b) <b>Lens Aberrations:</b> 1.8 Introduction to Aberration 1.9 Types of aberration: Monochromatic and Chromatic Aberration (Only discussion)	
		<b>2. Optical Instruments</b>	
January	1 <sup>st</sup>	2.1 Introduction to optical instruments 2.2 Types of optical instruments: Simple Microscope, Compound Microscope and Astronomical telescope (only	Interactive session You tube session







		construction and working)	Interactive session Power point presentation
	2 <sup>nd</sup>	2.3 Eyepiece: Ramsden's eye piece (Expression). Huygens eye piece and Gauss's eyepiece (only qualitative discussion)	
	3 <sup>rd</sup>	2.4 Problems.	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>3. Interference and Diffraction</b>	
February	1 <sup>st</sup>	(a) <b>Interference:</b> 3.1 Introduction to interference 3.2 Types of Interference (only discussion) 3.3 Phase change on reflection (Stokes treatment).	Interactive session Group discussion, Home assignment Interactive session
	2 <sup>nd</sup>	3.4 Interference due to reflected light 3.5 Interference due to transmitted light. 3.6 Newton's ring (to calculate wavelength) 3.7 Problems	
	3 <sup>rd</sup>	(b) <b>Diffraction:</b> 3.8 Introduction to diffraction 3.9 Types of diffraction (only discussion) 3.10 Fraunhofer's diffraction due to single slit and double slit (only qualitative discussion)	
	4 <sup>th</sup>	3.11 Plane transmission grating and grating equation (only principal maxima) 3.12 Rayleigh criterion for resolution (only qualitative discussion) 3.13 Problems	


Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>4. Polarization</b>	
March	1 <sup>st</sup>	4.1 Introduction to polarization 4.2 Brewster's law 4.3 Malus's Law	Interactive session You tube session Interactive session Power point presentation
	2 <sup>nd</sup>	4.4 Polarization by double refraction	





		4.5 Nicol Prism
	3rd	4.6 Application of polarization 4.7 Problems

Name & Signature of Subject Teacher: Prof. S. B. Ahire

  
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Maratha Vidya Prasarak Samaj's  
**ARTS, COMMERCE AND SCIENCE COLLEGE**  
Taharabad, Tal. Baglan. Dist. Nashik  
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NAAC Accredited 'B' Grade with CGPA-2.23

AISHE:C-41305

## Academic Year 2023-2024

### Report of course-wise application of students centric methods

All the concerned subject teachers of the department of Mathematics used innovative teaching method for B.sc. courses in the academic year 2023-2024

For the F.Y.BSc.-Algebra, calculus-I, S.Y.BSc- Calculus Of Several Variables & Numerical Methods And its Applications. Following subject student specific centric methods used for teaching: Following subject student specific centric method for teaching

Class assignment
Group Debate
Interactive session
Power point presentation
Group discussion,
Topic related movie screening
Contain related examples
Online Teaching (ZoomApp / Google Meet App)
You Tube Session

Head

Department Of Mathematics  
M.V.P's Arts, Commerce & Science  
College Taharabad Tal. Baglan (Nashik)

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Tal. Baglan, Dist. Nashik



Department of Botany - 2023-2024

2.3.1: Details of course-wise application of students centric methods

Name of the Teacher: Assit. Prof. Prof. P.C.Raut.  
Subject: BO 242: Plant Biotechnology

Class: Course/Subject: S.Y.B.Sc

Month	Week	Name of the Unit/Topic	
January	1 <sup>st</sup>		
	2 <sup>nd</sup>		
	3 <sup>rd</sup>		
	4 <sup>th</sup>		

Month	Week	Name of the Unit/Topic	
February		<b>Introduction to Plant Biotechnology</b>	
	1 <sup>st</sup>	a) History and definition	Interactive session Group discussion
	2 <sup>nd</sup>	b) Scope and importance of plant biotechnology	
	3 <sup>rd</sup>	c) Current status of biotechnology in India	
Month	Week	Name of the Unit/Top	Power point presentation, Power point presentation,

Month	Week	Name of the Unit/Topic	
		<b>Plant Tissue Culture</b>	Application of Student Centric Methods
	1 <sup>st</sup>	a) Concept of plant tissue culture and cellular totipotency	Power point presentation, Interactive session Group discussion, Home assignment
	2 <sup>nd</sup>	b) Basic techniques: Types of culture, Media preparation, sterilization, inoculation, incubation, hardening	
	3 <sup>rd</sup>	c) 2.3 Applications with reference to: Micropropagation, Somaclonal variation, Haploid production, Protoplast fusion & Somatic hybrids, Embryo rescue, Production of secondary metabolite.	





Month	Week	Name of the Unit/ Single Cell Protein	Application of Student Centric Methods
March	1st	Concept and definition	Interactive session Group discussion Home assignment Interactive session
	2nd	Importance of proteins in diet	
	3rd	Production of SCP from <i>Spirulina</i> and Yeast	
	4th	Importance & acceptability of SCP	
	Week	Name of the Unit/Topic : Plant Genetic Engineering	Application of Student Centric Methods
	1st	a) Introduction, concept	Interactive session Power point presentation, Power point presentation, Power point presentation, Home assignment
	2nd	b) ) Tools of genetic engineering (restriction enzymes, ligases, plasmid vectors	
	3rd	b Gene cloning Technique	
	4th	c Applications of plant genetic engineering: insect pest resistance, abiotic stress	

Month	Week	Name of the Unit/Topic 6 Bioremediation	Application of Student Centric Methods
April	1st	i) Introduction and concept	Interactive session
	2nd	ii) Microbial remediation	Interactive session ,
	3rd	ii) Phytoremediation	Group Debate

*(P.C. Raut)*  
(MR. P.C. Raut)

Name & Signature of Subject Teacher: Prof. P.C.Raut.

*(K. Bal)*  
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Arts, Commerce & Science College  
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Maratha Vidya Prasarak Samaj's  
Arts, Commerce and Science College, Taharabad  
Tal. Baglan, Dist. Nashik



Department of Botany - 2023-2024

Details of course-wise application of students centric methods

Name of the Teacher: Asst.Prof . P.C.Raut

Class: Course/Subject: T.Y.B.Sc

Subject: BO 351: Cryptogamic Botany ( Algae and Fungi)

Month	Week	Name of the Unit/Topic	
July	1 <sup>st</sup>		
	2 <sup>nd</sup>		
	3 <sup>rd</sup>		
	4 <sup>th</sup>		

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Credit-I Algae</b> Introduction: Cryptogams- meaning. Types- Lower Cryptogams, brief Review with examples	
August	1 <sup>st</sup>	Algae: General characters	Interactive session
	2 <sup>nd</sup>	a) distribution, Thallus organization, habit	You tube session
	3 <sup>rd</sup>	b Habitat reproduction and Classification (G.M.Smith 1955) up to classes	Interactive session Power point presentation
	4 <sup>th</sup>	c) Study of life cycle of algae with reference to taxonomic position	

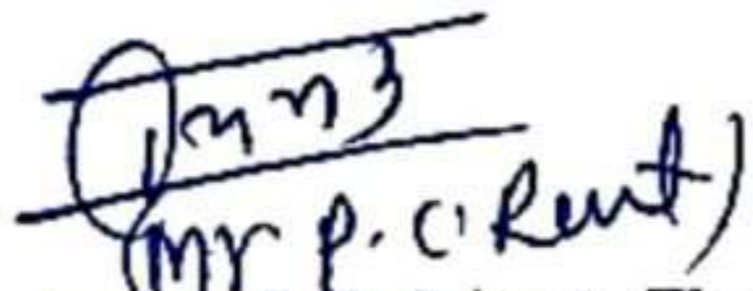
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Ascent of sap</b>	
September	1 <sup>st</sup>	a Occurrence, Thallus structure, and reproduction of <i>Nostoc</i> , <i>Oedogonium</i>	Interactive session





	2nd	b) <i>Chara</i> , <i>Sargassum</i> and <i>Batrachospermum</i>	Group discussion, Home assignment Interactive session
	3rd	c) economic importance of algae in industry, agriculture, fodder and	
	4th	<b>Transpiration</b> a) Definition b) Types of transpiration – cuticular, lenticular and stomatal c) Structure of stomata d) Mechanism of opening and closing of stomata – Steward's hypothesis, active K <sup>+</sup> transport mechanism	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>5: Credit-II</b> <b>Fungi</b>	
December	1st	a) Fungi: General characters	
	2nd	Habit and habitats, thallus organization,	Interactive session
	3rd	b) cell wall composition, nutrition and Classification. (Alexopoulos and Mims 1979).	Interactive session
	4th	Study of life cycle of fungi with reference to taxonomic position, thallus structure, and reproduction of <i>Mucor</i> ( <i>Zygomycotina</i> ), <i>Saccharomyces</i> ( <i>Ascomycotina</i> ), <i>Puccinia</i> ( <i>Basidiomycotina</i> ), <i>Penicillium</i> and <i>Cercospora</i> ( <i>Deuteromycotina</i> ) [Two members of Deutero.	You tube session Group discussion

  
 Name & Signature of Subject Teacher: Prof. P.C.Raut.

  
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Department of Botany - 2023-2024

2.3.1: Details of course-wise application of students centric methods

Class: Course/Subject: S.Y.B.Sc

Name of the Teacher: Asst.Prof. P.C.Raut

Subject: BO 232: Plant physiology II

Month	Week	Name of the Unit/Topic
July	1 <sup>st</sup>	
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
	4 <sup>th</sup>	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Introduction to Plant Physiology</b> Scope and applications of plant physiology	
August	1 <sup>st</sup>	<b>Absorption of water</b>	Interactive session
	2 <sup>nd</sup>	a) Role of water in plants	You tube session
	3 <sup>rd</sup>	b) Mechanisms of water absorption with respect to crop plants	Interactive session
	4 <sup>th</sup>	c) Factors affecting rate of water absorption	Power point presentation

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Ascent of sap</b>	
September	1 <sup>st</sup>	a) Introduction and definition	Interactive session
	2 <sup>nd</sup>	b) Transpiration pull or cohesion-tension theory, evidences and objections	Group discussion, Home assignment
	3 <sup>rd</sup>	c) Factors affecting ascent of sap	Interactive session
	4 <sup>th</sup>	<b>Transpiration</b> a) Definition b) Types of transpiration – cuticular, lenticular and stomatal c) Structure of stomata	





d) Mechanism of opening and closing of stomata – Steward's hypothesis. active K<sup>+</sup> transport mechanism

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Nitrogen metabolism</b>	
October	1 <sup>st</sup>	a) Introduction and role of nitrogen in plants	Power point presentation. Group discussion, Home assignment Interactive session
	2 <sup>nd</sup>	b) Nitrogen fixation by <i>Rhizobium</i> and BGA	
	3 <sup>rd</sup>	c) Symbiotic nitrogen fixation, nitrogenase enzyme- s structure and function	
	4 <sup>th</sup>	Non-symbiotic nitrogen fixation	
		Importance and production technique of BGA	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Seed dormancy and germination</b>	
November	1 <sup>st</sup>	a) Definition, types of seed dormancy and germination	Interactive session Group discussion Power point presentation. Power point presentation.
	2 <sup>nd</sup>	b) Methods to break seed dormancy	
	3 <sup>rd</sup>	c) Metabolic changes during seed germination	
	4 <sup>th</sup>	c) Role of phytohormones to improve seed germination	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>5: Physiology of flowering</b>	
December	1 <sup>st</sup>	a) Photoperiodism	Interactive session
	2 <sup>nd</sup>	Concept, definition, short day plants	
	3 <sup>rd</sup>	b) long day plants and day neutral plants.	Interactive session
	4 <sup>th</sup>	Vigor Index	You tube session Group discussion

(P.C.Raut)  
(Mr. P.C. Raut)

Name & Signature of Subject Teacher: Prof. P.C.Raut.

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Department of Botany - 2023-2024

Details of course-wise application of students centric methods

Name of the Teacher: Asst. Prof. P.C. Raut

Class: Course/Subject: S.Y.B.Sc

Subject: BO 232: Plant physiology II

Month	Week	Name of the Unit/Topic	
July	1 <sup>st</sup>		
	2 <sup>nd</sup>		
	3 <sup>rd</sup>		
	4 <sup>th</sup>		

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Introduction to Plant Physiology</b> Scope and applications of plant physiology	
August	1 <sup>st</sup>	<b>Absorption of water</b>	Interactive session
	2 <sup>nd</sup>	a) Role of water in plants	You tube session
	3 <sup>rd</sup>	b) Mechanisms of water absorption with respect to crop plants	Interactive session
	4 <sup>th</sup>	c) Factors affecting rate of water absorption	Power point presentation

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Ascent of sap</b>	
September	1 <sup>st</sup>	a) Introduction and definition	Interactive session
	2 <sup>nd</sup>	b) Transpiration pull or cohesion-tension theory, evidences and objections	Group discussion, Home assignment
	3 <sup>rd</sup>	c) Factors affecting ascent of sap	Interactive session
	4 <sup>th</sup>	<b>Transpiration</b> a) Definition b) Types of transpiration – cuticular, lenticular and stomatal c) Structure of stomata	

		d) Mechanism of opening and closing of stomata – Steward's hypothesis, active K <sup>+</sup> transport mechanism	
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Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Nitrogen metabolism</b>	
October	1 <sup>st</sup>	a) Introduction and role of nitrogen in plants	
	2 <sup>nd</sup>	b) Nitrogen fixation by <i>Rhizobium</i> and BGA	Power point presentation, Group discussion, Home assignment Interactive session
	3 <sup>rd</sup>	c) Symbiotic nitrogen fixation, nitrogenase enzyme- structure and function	
	4 <sup>th</sup>	Non-symbiotic nitrogen fixation	
		Importance and production technique of BGA	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Seed dormancy and germination</b>	
November	1 <sup>st</sup>	a) Definition, types of seed dormancy and germination	Interactive session Group discussion Power point presentation, Power point presentation,
	2 <sup>nd</sup>	b) Methods to break seed dormancy	
	3 <sup>rd</sup>	c) Metabolic changes during seed germination	
	4 <sup>th</sup>	c) Role of phytohormones to improve seed germination	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>5: Physiology of flowering</b>	
December	1 <sup>st</sup>	a) Photoperiodism	
	2 <sup>nd</sup>	Concept, definition, short day plants	Interactive session
	3 <sup>rd</sup>	b) long day plants and day neutral plants.	Interactive session
	4 <sup>th</sup>	Vigor Index	You tube session Group discussion

P.C.Raut

Name & Signature of Subject Teacher: Prof. P.C.Raut.

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Department of Zoology 2023-2024

Details of course-wise application of students centric methods

Name of the Teacher: Asst Prof. S. S. Bhamare

Class: Course/Subject: S.Y.B.Sc.

Subject: Zoology – Zo( 231) Animal Diversity - III

Month	Week	Name of the Unit/Topic	
July	1st		
	2nd		
	3rd		
	4th		

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>1) Unit 1: Introduction to Phylum Chordata</b>	
August	1st	A) Origin & Ancestry of Chordates	Interactive session
	2nd	B) Comparative account of fundamental characters of Chordates with Non Chordates	Group discussion, Interactive session
	3rd	C) Salient features of Phylum Chordata	Power point presentation
	4th	D) Classification of Phylum Chordata upto classes	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Unit 2: Introduction to Group Protochordata</b>	
September	1st	a) Salient features of Protochordata	Interactive session
	2nd	b) Salient features of subphylum with two example each - Names only	Group discussion, Home assignment
	3rd	<b>Unit 3 Introduction to subphylum Vertebrata</b>	Interactive session
	4th	c) Salient features of Vertebrata	





Details of course-wise application of students centric methods

Name of the Teacher: Asst Prof. S. S. Bhamare

Subject: Zoology – Zo ( 241)Animal Diversity - IV

Class: Course/Subject: S.Y.B.Sc.

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Unit 1: Introduction to class –Reptilia</b>	
December	1 <sup>st</sup>	a) Salient features of class Reptilia with one example (name only) – <i>Chelone, Calotes</i>	Interactive session
	2 <sup>nd</sup>	b) Venomous and Non-venomous snakes	Power point presentation,
	3 <sup>rd</sup>	c) Snake venom, symptoms, effect and cure of snake bite, first aid treatment of snakebite	Interactive session
	4 <sup>th</sup>	c) Desert adaptations in reptiles in brief	Group discussion

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Unit 2: Introduction to class –Aves</b>	
January	1 <sup>st</sup>	a) Salient features of class Aves with two examples (names only) – Sparrow, Parrot	Power point presentation,
	2 <sup>nd</sup>	b) Flight adaptations in birds	Interactive session ,
	3 <sup>rd</sup>	c) Types of Beaks and feet in birds.	Group Debate
	4 <sup>th</sup>	d) Migration in birds – Altitudinal, Latitudinal	Interactive session Home assignment

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Unit 3: Introduction to class - Mammalia</b>	
February	1 <sup>st</sup>	a) Salient features of class Mammalia with two examples (names only) – Rat, Rabbit	Interactive session Interactive session
	2 <sup>nd</sup>	b) Egg laying mammals	Power point presentation
	3 <sup>rd</sup>	c) Aquatic adaptations in mammals	Interactive session
	4 <sup>th</sup>	d) Cursorial and fossorial adaptation in mammals	Group discussion,





Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
March		Unit 4: Study of Rat	
	1st	a) Systematic position, habit and habitat	Interactive session
	2nd	b) External characters.	Power point presentation
	3rd	c) Sense organs – Structure and functions of Eye & Ear	Interactive session
	4th	d) Reproductive system	Group discussion.

Name & Signature of Subject Teacher:  Asst Prof. S. S. Bhamare.

  
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Department of Zoology- 2023-2024

Details of course-wise application of students centric methods

Class: Course/Subject: S.Y.B.Sc.

Name of the Teacher: Asst.Prof. S. S. Bhamare

Subject: ZO -( 232) Applied Zoology I

Month	Week	Name of the Unit/Topic
July	1 <sup>st</sup>	
	2 <sup>nd</sup>	
	3 <sup>rd</sup>	
	4 <sup>th</sup>	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
August	1 <sup>st</sup>	Unit 1: Sericulture An introduction to Sericulture, Study of different types of silk moths	Interactive session
	2 <sup>nd</sup>	External Morphology and life cycle of <i>Bombyx mori</i>	Interactive session
	3 <sup>rd</sup>	Cultivation of mulberry	Power point presentation
	4 <sup>th</sup>	Harvesting of mulberry	Group discussion

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1 <sup>st</sup>	Unit 2: Agricultural Pests and their control: a) An introduction to Agricultural Pests, types of pests	Interactive session
	2 <sup>nd</sup>	b) Major insect pests of agricultural importance	Group discussion, Home assignment
	3 <sup>rd</sup>	c) Jowar stem borer	Interactive session
	4 <sup>th</sup>	d) Red cotton bug	





Month	Week		
October	1st	a) Brinjal fruit borer,	Application of Student Centric Methods Power point presentation, Group discussion, Home assignment Interactive session
	2nd	a) Mango stem borer,	
	3rd	b) Blister beetle,	
	4th	c) Rice weevil	
November	1st	a) Non insect pests: Rats, Crabs, Snails, and Squirrels	Application of Student Centric Methods Interactive session Group discussion You tube session Power point presentation,
	2nd	b) Pest control practices in brief	
	3rd	b) Mechanical control, Chemical control, Biological control	
	4th	c) Plant protection appliances	

Name & Signature of Subject Teacher: Asst. Prof. S. S. Bhamare

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Details of course-wise application of students centric methods

Name of the Teacher: Asst.Prof .S. S. Bhamare

Class: Course/Subject: S.Y.B.Sc.

Subject: ZO – (243) Animal Diversity - IV

Month	Week	Name of the Unit/Topic Unit 1: Apiculture	Application of Student Centric Methods
December	1 <sup>st</sup>	a) Study of external morphology, life cycle and polymorphism in Honey Bee.	Interactive session
	2 <sup>nd</sup>	b) Temporary mounting of mouth parts, legs, wings and sting apparatus of worker bee	Power point presentation, You tube session ,
	3 <sup>rd</sup>	c) Study of Bee keeping Equipment: Bee box, Honey extractor, Smoker, Bee-veil, queen excluder	Interactive session You tube session ,
	4 <sup>th</sup>	c) Study of Bee products: Honey, Wax, Venom, Royal jelly, Pollen	Interactive session Group discussion


Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
January	1 <sup>st</sup>	a) Estimation of carbohydrates from Honey in different samples	Power point presentation,
	2 <sup>nd</sup>	b) Study of Bee enemies:	Interactive session ,
	3 <sup>rd</sup>	c) Wax moth, Bee eater	Group Debate
	4 <sup>th</sup>	d) ant	Interactive session Home assignment

Month	Week	Name of the Unit/Topic Unit 2: Fisheries	Application of Student Centric Methods
February	1 <sup>st</sup>	a) Identification. Classification and study of habit. habitat	Interactive session



		and economic importance	Interactive session
	2nd	b) Identification, Classification and study of habit, habitat and economic importance of	Power point presentation
	3rd	b) Study and maintenance of Aquarium.	Interactive session
	4th	c) Study of crafts:	Group discussion.

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
March	1st	Unit 8: Challenges before Political Journalism a) Study of gears in fishing:	Interactive session
	2nd	b Study of nutritional value of fish: Biochemical estimation	Interactive session
	3rd	b) Fishery byproducts	Group discussion
		c) Fish preservation technique:	Group discussion,

Name & Signature of Subject Teacher:  Asst. Prof. S. S. Bhamare

  
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Department of Zoology- 2023-2024

Details of course-wise application of students centric methods

Name of the Teacher: Asst. Prof. S. S. Bhamare

Class: Course/Subject: F. Y. B.Sc.

Subject: Zoology(112) Animal Ecology

Month	Week	Name of the Unit/Topic	
	1 <sup>st</sup>		
	2 <sup>nd</sup>		
	3 <sup>rd</sup>		
	4 <sup>th</sup>		

Month	Week	Name of the Unit/Topic	
		<b>Unit 1: Introduction to Ecology</b>	
July	1 <sup>st</sup>	a) Concepts of Ecology	Interactive session Group discussion Power point presentation, Power point presentation.
	2 <sup>nd</sup>	<b>Unit 2 Ecosystem</b>	
	3 <sup>rd</sup>	a) Types of ecosystems	
	4 <sup>th</sup>	d) Structure and Composition of Ecosystem	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Unit 3: Population</b>	
August	1 <sup>st</sup>	a) Characteristic of population:	Power point presentation, Interactive session Group discussion, Home assignment
	2 <sup>nd</sup>	b Exponential and logistic growth	
	3 <sup>rd</sup>	c Population regulation	
	4 <sup>th</sup>	d) Quadrate, line and belt transect methods.	



Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
September	1st	<b>Unit 4 Community</b> I Community characteristics	Interactive session Group discussion Home assignment Interactive session
	2nd	species richness, dominance, diversity	
	3rd	vertical stratification, Eco tone and edge effect; Ecological	
	4th	succession with one example.	
Month	Week	Name of the Unit/Topic : 5 Animal interactions	Application of Student Centric Methods
October	1st	a) Introduction to Animal interactions	Interactive session Power point presentation, Power point presentation, Power point presentation, Home assignment
	2nd	b) ) Types of Animal interactions with at least to suitable examples of	
	3rd	b) Competition: Interspecific and intraspecific	
	4th	c) Beneficial Associations	



Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
November	1st	a) Commensalism (remora fish on shark, Cattle egrets on livestock)	Interactive session Power point presentation, Interactive session You tube session Group discussion
	2nd	b) Mutualism (Termite and Trichonympha, bees and flowers, cleaning)	
	3rd	b) Antagonistic associations:	
	4th	c) Prey predation (Lion and deer)	


Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
December		<b>Zoology(112) Animal Diversity -II</b> <b>Unit:1 Phylum Aschelminthes</b>	Interactive session Interactive session , Group Debate Interactive session Home assignment
	1st	i Introduction to phylum Aschelminthes	
	2nd	ii Salient features of Phylum Aschelminthes	
	3rd	ii Classification of Phylum Aschelminthes	
	4th	iii) Economic importance of class Nematoda	
January		<b>Unit 2 : Phylum Annelida</b>	Interactive session
	1st	Introduction to Phylum Annelida	





	2nd	Salient features of Phylum Annelida	Interactive session
	3rd	Classification of Phylum Annelida	Power point presentation
	4th	Class Polychaeta, Class Oligochaeta	Interactive session Group discussion.

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Unit 3: Phylum Arthropoda</b>	
February	1st	1) Introduction to Phylum Arthropoda	Interactive session
	2nd	2) Salient features of Phylum Arthropoda.	Power point presentation Interactive session
March	3rd	<b>Unit 4 :Phylum Mollusca</b>	Interactive session
	4th	<b>Unit 5: of Phylum Echinodermata</b>	Home assignment

  
Name & Signature of Subject Teacher: Asst. Prof S. S. Bhamare

  
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Department of Political Science- 2023-2024

**2.3.1: Details of course-wise application of students centric methods**

Name of the Teacher: Asst .Prof. Dr. G. M. Limbole

Class: Course/Subject: F. Y. B.A.

Subject: Political Science (G-1) Introduction to Indian Constitution

Month	Week	Name of the Unit/Topic	
July	1 <sup>st</sup>		
	2 <sup>nd</sup>		
	3 <sup>rd</sup>		
	4 <sup>th</sup>		

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>1) Making of the Indian Constitution</b>	
August	1 <sup>st</sup>	A) Historical Background	Interactive session
	2 <sup>nd</sup>	B) Constituent Assembly	You tube session
	3 <sup>rd</sup>	C) Preamble	Interactive session
	4 <sup>th</sup>	D) Salient Features	Power point presentation

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>2) Fundamental Rights, Duties and Directive Principles</b>	
September	1 <sup>st</sup>	a) Fundamental Rights	Interactive session
	2 <sup>nd</sup>	b) Fundamental Duties	Group discussion,
	3 <sup>rd</sup>	c) Directive Principles of State Policy	Home assignment
	4 <sup>th</sup>	c) Directive Principles of State Policy	Interactive session



Month	Week	Name of the Unit/Topic <b>3: Federalism</b>	Application of Student Centric Methods
October	1st	a) Salient Features of Indian Federalism	Power point presentation, Group discussion, Home assignment Interactive session
	2nd	b) Centre –State Relations	
	3rd	Issues of Conflict (Water and Border Issues)	
	4th	Issues of Conflict (Water and Border Issues)	
Month	Week	Name of the Unit/Topic <b>4 Constitutional Amendments: Scope and Limitations</b>	Application of Student Centric Methods
November	1st	a) Constitutional Provisions	Interactive session Group discussion Power point presentation, Power point presentation,
	2nd	b) Major Constitutional Amendments (42, 44 & 86)	
	3rd	c) Basic Structure of the Indian Constitution	
	4th	c) Basic Structure of the Indian Constitution	

Month	Week	Name of the Unit/Topic <b>5: Legislature</b>	Application of Student Centric Methods
December	1st	a) Union Legislature – Structure, Powers and Role	Interactive session Interactive session You tube session Group discussion
	2nd	Union Legislature – Structure, Powers and Role	
	3rd	b) State Legislature – Structure, Powers and Role	
	4th	State Legislature – Structure, Powers and Role	

Month	Week	Name of the Unit/Topic <b>6: Executive</b>	Application of Student Centric Methods
January	1st	i) President and Vice President– Powers, Functions and Role	Power point presentation, Interactive session , Group Debate Interactive session Home assignment
	2nd	ii) Prime Minister - Powers, Functions and Role	
	3rd	iii) Council of Minister – Powers and Functions and Role	
	4th	b) State Executive- i) Governor - Powers, Functions and Role	



Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
February	1st	Chief Minister – Powers, Functions and Role	Interactive session
	2nd	Council of Minister – Powers and Functions and Role	Power point presentation
	3rd	<b>Unit 7: Judiciary-</b> a) Supreme Court : Powers and Functions	Interactive session Group discussion,
	4th	b) High Court : Powers and Functions	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
March	1st	c) Judicial Review and Judicial Activism	Interactive session
	2nd	<b>Unit-8 -Electoral System-</b> a) Election Commission: Composition, Functions and Role	Power point presentation
	3rd	b) Chief Election Commissioner	Interactive session
		b) Chief Election Commissioner	Home assignment

*Dr. G. M. Limbole*

Name & Signature of Subject Teacher : Dr. G. M. Limbole.







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Department of Political Science- 2023-2024

**2.3.1: Details of course-wise application of students centric methods**

Name of the Teacher: Assit. Prof. Dr.G. M .Limbole

Class: Course/Subject: S. Y. B.A.

Subject: Political Science (G-2) Introduction to Political Science

Month	Week	Name of the Unit/Topic	
	1st		
	2nd		
	3rd		
	4th		

Month	Week	Name of the Unit/Topic	
		<b>Unit 1: The Study of Political Science</b>	
July	1st	a) Introduction & Definition	Interactive session Group discussion Power point presentation, Power point presentation,
	2nd	b) Nature	
	3rd	c) Scope	
	4th	d) Modern Political Science	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Unit 2: Approaches to Study Political Science</b>	
August	1st	a) Normative	Power point presentation, Interactive session Group discussion, Home assignment
	2nd	b) Empirical	
	3rd	c) Feminist	
	4th	d) Feminist theories	

Month	Week	Name of the Unit/Topic <b>Unit 3: Basic Concepts</b>	Application of Student Centric Methods
September	1 <sup>st</sup>	The State	Interactive session Group discussion Home assignment Interactive session
	2 <sup>nd</sup>	The State	
	3 <sup>rd</sup>	The market	
	4 <sup>th</sup>	The Civil Society	
Month	Week	Name of the Unit/Topic : <b>4 Democracy</b>	Application of Student Centric Methods
October	1 <sup>st</sup>	a) Representative	Interactive session Power point presentation, Power point presentation, Power point presentation, Home assignment
	2 <sup>nd</sup>	b) ) Representative	
	3 <sup>rd</sup>	b) Deliberative	
	4 <sup>th</sup>	c) Participatory	

Month	Week	Name of the Unit/Topic <b>5: Basic Political Values</b>	Application of Student Centric Methods
November	1 <sup>st</sup>	a) Liberty	Interactive session Power point presentation, Interactive session You tube session Group discussion
	2 <sup>nd</sup>	b) Equality	
	3 <sup>rd</sup>	b) Equality	
	4 <sup>th</sup>	c) Justice	

Month	Week	Name of the Unit/Topic <b>6: Rights</b>	Application of Student Centric Methods
December	1 <sup>st</sup>	i) Definition And Meaning	Interactive session Interactive session , Group Debate Interactive session Home assignment
	2 <sup>nd</sup>	ii) Types	
	3 <sup>rd</sup>	ii) Types	
	4 <sup>th</sup>	iii) Challenges	
January		Name of the Unit/Topic <b>7: Ideology</b>	



	1st	Nationalism	Interactive session
	2nd	Socialism	Interactive session
	3rd	Socialism	Power point presentation
	4th	Fascism	Interactive session Group discussion,

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		Unit 8 : International Organization	
February	1st	1) United Nation Nations -Structure Function and Challenges	Interactive session
	2nd	2) Regional Organization -EU, SAARC ,OPEC, NATO	Power point presentation Interactive session
March	3rd	2) Regional Organization -EU, SAARC ,OPEC, NATO	Interactive session
	4th	3) MNCs	Home assignment

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Name & Signature of Subject Teacher: Dr. G. M. Limbole.





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**Department of Political Science- 2023-2024**

**2.3.1: Details of course-wise application of students centric methods**

**Name of the Teacher: Asstt Prof. Dr. G. M. Limbole**

**Class: Course/Subject: S.Y.B.A.**

**Subject: Political Science (S-1) WESTERN POLITICAL THOUGHT**

Month	Week	Name of the Unit/Topic	
July	1 <sup>st</sup>		
	2 <sup>nd</sup>		
	3 <sup>rd</sup>		
	4 <sup>th</sup>		

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>1) Unit 1: Plato</b>	
August	1 <sup>st</sup>	A) Introduction & Ideal State	Interactive session
	2 <sup>nd</sup>	B) View on Education	Group discussion,
	3 <sup>rd</sup>	C) Theory of Justice	Interactive session
	4 <sup>th</sup>	D) Theory of Justice	Power point presentation

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		<b>Unit 2: Aristotle</b>	
September	1 <sup>st</sup>	a) Introduction & Classification of the State	Interactive session
	2 <sup>nd</sup>	b) Classification of the State	Group discussion,
	3 <sup>rd</sup>	c) Views on Slavery	Home assignment
	4 <sup>th</sup>	c) Theory of Revolution	Interactive session



Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		Unit 3: Machiavelli	
October	1 <sup>st</sup>	a) Introduction & Human Nature	Interactive session , Group discussion, Home assignment Interactive session
	2 <sup>nd</sup>	b) Attitude towards Religion	
	3 <sup>rd</sup>	b) Attitude towards Morality	
	4 <sup>th</sup>	c) Views on State	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		Unit 4: Locke	
November	1 <sup>st</sup>	a) Introduction & State of Nature	Interactive session Group discussion Interactive session Power point presentation,
	2 <sup>nd</sup>	b) Natural Rights	
	3 <sup>rd</sup>	c) Theory of Social Contract	
	4 <sup>th</sup>	c) Theory of Social Contract	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		Unit 5: Rousseau	
December	1 <sup>st</sup>	a) Introduction & State of Nature	Interactive session
	2 <sup>nd</sup>	b) General Will	Power point presentation,
	3 <sup>rd</sup>	c) Theory of Social Contract	Interactive session
	4 <sup>th</sup>	c) Theory of Social Contract	Group discussion

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		Unit 6: Hegel	
January	1 <sup>st</sup>	a) Introduction & Idealism	Power point presentation,
	2 <sup>nd</sup>	b) Idealism	Interactive session ,
	3 <sup>rd</sup>	c) Theory of State	Group Debate
	4 <sup>th</sup>	d) Views on Freedom	Interactive session Home assignment

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		Unit 7: J. S. Mill	
February	1 <sup>st</sup>	a) Introduction & Views on Liberty	Interactive session
	2 <sup>nd</sup>	b) Representative Government	Interactive session
	3 <sup>rd</sup>	c) Representative Government	Power point presentation
	4 <sup>th</sup>	d) Views on Utilitarianism	Interactive session Group discussion,



Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		Unit 8: Karl Marx	
March	1st	a) Introduction & Historical Materialism	Interactive session
	2nd	b) Class Struggle	Power point presentation
	3rd	c) Theory of State	Interactive session
	4th	d) Revolution	Group discussion,

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Department of Political Science- 2023-2024

**2.3.1: Details of course-wise application of students centric methods**

Name of the Teacher: Asstt. Prof. Dr. G. M. Limbole

Class: Course/Subject: S.Y.B.A.

Subject: Political Science (S-2) POLITICAL JOURNALISM

Month	Week	Name of the Unit/Topic	
July	1 <sup>st</sup>		
	2 <sup>nd</sup>		
	3 <sup>rd</sup>		
	4 <sup>th</sup>		

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		Unit 1: An introduction to Political Journalism	
August	1 <sup>st</sup>	A) Definition and Meaning	Interactive session
	2 <sup>nd</sup>	B) Nature	Interactive session
	3 <sup>rd</sup>	C) Scope	Power point presentation
	4 <sup>th</sup>	D) Scope	Group discussion

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		Unit 2: Agencies of Political Journalism	
September	1 <sup>st</sup>	a) Print	Interactive session
	2 <sup>nd</sup>	b) Electronic	Group discussion, Home assignment
	3 <sup>rd</sup>	c) Electronic	Interactive session
	4 <sup>th</sup>	d) Web	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
October	1st	Unit 3: History of Political Journalism a) Pre-Independence	Power point presentation, Group discussion, Home assignment Interactive session
	2nd	a) Pre-Independence	
	3rd	b) Post-Independence	
	4th	c) World History	
Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
November		Unit 4: Methods of Political Journalism	Interactive session Group discussion You tube session, Power point presentation,
	1st	a) Reporting of Political Events	
	2nd	b) Political Interview	
	3rd	b) Political Interview	
	4th	c) Commentary of Legislation	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
December		Unit 5: Indian Political Process & Journalism	Interactive session Power point presentation, You tube session , Interactive session You tube session , Interactive session Group discussion
	1st	a) Role of Social Media in Political Process	
	2nd	b) Election and Media: Loksabha and Maharashtra Vidhansabha 2014 and 2019 General Elections	
	3rd	c) Election and Media: Loksabha and Maharashtra Vidhansabha 2014 and 2019 General Elections	
	4th	c) Political Parties and Social Media	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
January		Unit 6: Mediatization of Politics	Power point presentation, Interactive session , Group Debate Interactive session Home assignment
	1st	a) Definition and Meaning	
	2nd	b) Practices	
	3rd	c) Practices	
	4th	d) Mediums	

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		Unit 7: Media & Public Opinion	



February	1st	a) Definition and Meaning	Interactive session
	2nd	b) Practices	Interactive session
	3rd	b) Practices	Power point presentation
	4th	c) Mediums	Interactive session Group discussion,

Month	Week	Name of the Unit/Topic	Application of Student Centric Methods
		Unit 8: Challenges before Political Journalism	
March	1st	a) Increase of Paid News	Interactive session
	2nd	b) Party Spirited News Papers & Commercialization	Interactive session
	3rd	b) Party Spirited News Papers & Commercialization	Group discussion
		c) Media Saturation	Group discussion,

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