



Affiliated to - Shivaji University, Kolhapur-416 004, Maharashtra Accredited by NAAC (3rd Cycle) with Grade 'A' (CGPA-3.13)

Website: www.shahajicollege.ac.in Prin. Dr. R. K. Shanediwan - M.A. B.Ed. Ph.D.NET (Marathi) B.J.

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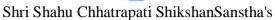
### **ACADEMIC YEAR: 2023-2024**

Programme Outcomes (POs),

**Programme Specific Outcomes (PSOs)** 

**Course Outcomes (COs)** 









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### **Faculty of Arts**

**Department of Marathi** 

Programme Name: B.A. (Course: Marathi)

Programme	Outcom	nes: After completion of the Programme, the students will be able to:	
PO1	Develop	interest in Marathi language and Marathi literature.	
PO2	Understand the tradition of Marathi literature and the contribution of Marathi writers.		
	Develop interest in Marathi as well as other languages.		
PO4	Understa	and the various types of Marathi literature.	
PO5	Understa	and the different movements in Marathi literature.	
Programme	Specific	Outcomes: After completion of the Programme, the students will be able to:	
		e love for mother tongue and ethical values.	
PSO2	Develop	the skills of language learning.	
PSO3	Prepare	for competitive examinations.	
PSO4	Work in	the varied fields of language such as translation, precis writing etc.	
		iliar with the language used in various media resources.	
<b>Course Outo</b>	comes: A	After completion of the course, the student will be able to:	
B.AI, Se	em. I	CO1. Develop interest in Marathi language and Marathi literature.	
II(Compulso	ory)	CO2. Develop ethical values& Biography Iloilo's.	
		CO3. Develop awareness of mother tongue i.e., Marathi.	
B.A. Part I	Sem. I	CO1. Inculcate interest in Marathi literature.	
and II(Option	onal)	CO2. Understand the importance of Marathi language in Competitive	
(-1	/	examinations.	
		CO3. Get acquainted with Marathi language in media and Marathi cinema.	
		CO4. To enhance the story writing skill in Marathi language.	
B.A.II (Op	ntional)	CO1. Understand drama as a form of Marathi literature.	
Sem. III and	· · · · · ·	CO2. Know the development of contemporary drama.	
Sem. III and	. •	CO3. Understand poetry as a form of Marathi literature.	
		CO4. Learn various elements of poetic art.	
B.A.II (Op	-	CO1. Understand the form of autobiography in Marathi literature.	
Sem. IV and	l VI	CO2. Develop the skill of writing autobiography.	
		CO3. Understand the form of novel in Marathi literature.	
		CO4. Develop the skill of writing from the literary point of view.	
B.A. III(S	special)	CO1. Understand the ancient, modern and post-modern literature in Marathi.	
Sem. V and	VI	CO2. Get acquainted with the literary and non-literary types of writings.	
Paper VII a	nd XII	CO3. Understand the genesis of creative writing in Marathi.	
		CO4. Learn the different aspects of Marathi language.	
B.A. III(S	special)	CO1. Understand the phonology and semantics of Marathi language.	
Sem. V and	VI	CO2. Familiarize with standard Marathi language and its dialects.	
Paper VII	I and	CO3. Develop interest in the Marathi language.	
XIII		CO4. Understand the origin of Marathi language and Marathi grammar.	





### Shri Shahu Chhatrapati ShikshanSanstha's



## SHRI SHAHAJI CHHATRAPATI MAHAVIDYALAYA

2968, 'C' DasaraChowk, Kolhapur-416 002.

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B.A. III(Special) Sem. V and VI Paper IX and XIV	CO1. Study the Marathi language and literature of the Medieval period. CO2. Understand Marathi prose and poetry writings. CO3. Understand the compositions of Marathi writers in various forms. CO4. Learn ballad form in Marathi literature.
B.A. III(Special) Sem. V and VI Paper X and XV	CO1. Understand the creative process and creative writings. CO2. Develop skill of writing essays, poems and project writing. CO3. Familiarize with the language used in different media forms. CO4. Search the jobs in various service sectors.
B.A. III(Special) Sem. V and VI Paper XI and XVI	CO1. Familiarize with the Medieval trends of Marathi literature. CO2. Understand literary prose and character depiction. CO3. Understand social, political, familial and cultural life-style. CO4. Acquaint with rural life and rural language forms.







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### **Department of Hindi**

Programme Name: B.A. (Course: Hindi)

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Programme Outcomes: After completion of the Programme, the students will be able to:			
PO1	Understand the importance of Hindi language.		
PO2	Understand the importance of Hindi language in National Integration.		
PO3	Learn the application of Hindi language and its relevance in current context.		
PO4		and the opportunities of jobs Hindi language makes available in various sectors.	
PO5		and the literature written in Hindi and importance in National Integration.	
		Outcomes: After completion of the Programme, the students will be able to:	
PSO1		and the relevance of Hindi novelists and dramatists and their literary works.	
PSO2	Know th	ne difference in various forms of literature.	
PSO3	Develop	through literary works moral and national values.	
PSO4	Be respo	onsible citizens.	
PSO5	Underst	and the relevance of Hindi prose and poetry in the current context.	
<b>Course Out</b>	comes: A	After completion of the course, the student will be able to:	
B.AI, Se	em. I	CO1. Understand the use of Hindi language in day-to-day contexts.	
II(Compuls	ory)	CO2. Develop the skill of writing correspondence in Hindi language.	
_	• ,	CO3. Learn the translation into Hindi language.	
B.A. Part I	Sem. I	CO1.Understand the modern Hindi literature in the genre of poetry and prose.	
and II(Opti	onal)	CO2. Understand the relevance of Hindi literature in the current context.	
` •		CO3. Know the contribution of Hindi writers in developing National Integrity	
		among the citizens.	
B.A.II (O	ptional)	CO1. Understand the modern forms of literature.	
Sem. III and	d V	CO2. Know the opportunities of jobs in various sectors.	
		CO3. Inculcate the interest in the field of Hindi language and translation.	
B.A.II (O	ptional)	CO1. Understand the contribution of Hind poets in the Medieval period.	
Sem. IV and	•	CO2. Understand the varied themes handled in the Modern Hindi Poetry.	
		CO3. Inculcate the moral and national values.	
		CO4. Develop the thought process regarding feminism.	
B.A. III(S	Special)	CO1. Acquaint with the Hindi dramatist Kusum Kumar and the novelist	
Sem. V and	-	Chandrakanta.	
Paper VII a	nd XII	CO2. Get acquainted with their literary contribution to the Hindi literature.	
_		CO3. Develop the critical appreciation of their literary works.	
		CO4. Understand the relevance of their writing in the current context.	
B.A. III(S	Special)	CO1. Understand the creative process.	
Sem. V and	-	CO2. Understand the different genres of literature.	
Paper VIII and		CO3. Learn the different critical perspectives and their application.	
XIII		CO4. Acquaint with the aesthetics of literature.	
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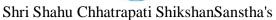
B.A. III(Special)	CO1. Understand the development of Hindi literature from Ancient Period to
Sem. V and VI	Modern Period.
Paper IX and XIV	CO2. Develop interest in the works of Hindi writers.
	CO3. Understand the historical, social and cultural dimensions of Hindi
	literature.
B.A. III(Special)	CO1. Understand the importance of Hindi in Communication and Information
Sem. V and VI	Transmission.
Paper X and XV	CO2. Understand the use of Hindi in day-to-day context.
•	CO3. Develop the communication skill in Hindi language.
B.A. III(Special)	CO1. Understand the origin and development of Hindi language.
Sem. V and VI	CO2. Understand the grammar of the Hindi language.
Paper XI and XVI	CO3. Familiarize with the intonation of Hindi language.

**Department of English** 

Programme Name: B.A. (Course: English)

Programme Outcomes: After completion of the Programme, the students will be able to:			
PO1	Perform analysis and criticism of literary and cultural texts from different perspectives.		
PO2	Write an	analytically in a variety of formats including essays, reflective writing and critical	
		of primary sources.	
PO3		and the process of communicating and interpreting human experiences through	
		epresentation using historical contexts and disciplinary methodologies.	
PO4		lish effectively in formal and informal situations.	
PO5		get the jobs in industry, government, schools and offices. Have enriched	
	confiden	ce to appear for competitive examinations.	
Programm	Programme Specific Outcomes: After completion of the Programme, the students will be able to:		
PSO1	Compre	hend various forms of literature like prose, poetry, drama and fiction.	
PSO2	Develop	Develop the knowledge of grammatical system of English language.	
PSO3	Develop	Develop the four language skills: Listening, Speaking, Reading and Writing (LSRW).	
PSO4	_	e of employability and entrepreneurship in the field of Media and Journalism,	
	Teaching, Public Relations, Human Resource, Civil Service, Creative Writing etc.		
PSO5	Write an	Write analytically in different formats like essays, review etc.	
Course Ou	Course Outcomes: After completion of the course, the student will be able to:		
<b>B.AI</b> , S	Sem. I	CO1. Acquaint with communication skills.	
II(Compuls	sory)	CO2. Inculcate human values through poems and prose.	
		CO3. Improve the language competence.	
B.A. Part	I Sem. I	CO1. Acquaint with translated Modern Indian literature in English.	
and II (Opt	tional)	CO2. Understand short story as a form of literature with reference to the texts	
		prescribed.	
		CO3. Develop literary competence.	









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	1-IVI.A. B.EU. FII.D.NET (Malatili) B.J. FIIOTE - (U) (U231) 2044204, (M) 530033303
B.A.II	CO1. Able to write an official report.
(Compulsory)	CO2. Understand the format of official letters.
Sem. III and IV	CO3. Acquaint with communication skills.
	CO4. Develop writing skills.
B.A.II (Optional -	CO1. To understandthe nature of film as an 'art' form.
Literature&	CO2. To explore ways in which film as art and literature influence each other.
Cinema) Sem. III	CO3. To expand existing textual analytical skills towards an understanding of
and V	film adaptation.
	CO4. To understand different perspectives on film adaptations.
B.A.II (Optional -	CO1. To create an awareness of the partition scenario among the students.
Partition	CO2. To explain the hidden human dimensions of the partition to the students.
Literature) Sem.	CO3. To elaborate on the impact of partition on society.
IV and VI	
B.A. III	CO1. Understand the interview techniques.
(Compulsory)	CO2. Improve writing skill.
	CO3. Acquaint with official letter writings.
	CO4. Acquaint with the journalistic use of English language.
B.A. III	CO1. Understand the major trends in literary criticism.
(Introduction to	CO2. Familiarize with the major critical concepts.
Literary	CO3. Understand the original contributions to literary criticism.
Criticism)	CO4. Understand the various literary movements.
	CO5. Acquire the skill of writing critical appreciation of poetry.
B.A. III	CO1. Become curious readers of poetry.
(English Poetry)	CO2. Understand poetry from various cultures and traditions.
	CO3. Understand that poetry gives intellectual, moral and linguistic pleasures.
	CO4. Able to enjoy poetry as the highest form of literature.
B.A. III	CO1. Understand the form of the drama.
(English Drama)	CO2. Understand the structure of drama.
	CO3. Familiarize with the types of drama.
	CO4. Familiarize with dramatic language.
B.A. III	CO1. Familiarize with the novel as a literary form.
(English Novel)	CO2. Acquaint with various types of novels.
	CO3. Familiarize with the language of the novel.
D A TIT	CO1 Understand Second resolution and beside second in Feelich Income.
B.A. III	CO1.Understand Speech mechanism and basic sounds in English language. CO2. Familiarize with word transcription and word stress.
(Language and	CO2. Familiarize with word transcription and word stress.  CO3. Understand the word–formation processes.
Linguistics)	CO4. Learn word classes, types of phrases and their form and function.
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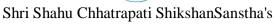
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### **Department of Sociology**

**Programme Name: B.A.** (Course: Sociology)

		nes: After completion of the Programme, the students will be able to:	
		the logical and analytical skill to understand the social issues and problems.	
	Contribute subject knowledge to nurture creativity, research and development.		
	Get acquainted with basic and advanced theoretical as well as methodological knowledge		
		ogy for applications.	
		out society, social life and social interaction.	
		and social life by inculcating values, morals and manners.	
		Outcomes: After completion of the Programme, the students will be able to:	
		the sociological knowledge and skills that will enable them to think critically and	
		tively about society and social issues.	
		and social structures, social institutions, cultural practices and multiple axes of	
		ce and inequality.	
PSO3 E	Inhance	their qualitative and quantitative analytical skills.	
DCO4 I	ok	and institutions followers mans sultime social control social instructions	
		bout institutions, folkways, mores, culture, social control, social inequality, society ure of India.	
		fessional careers in sociology and allied fields.	
		After completion of the course, the student will be able to:	
		CO1. Define sociology and demonstrate nature, scope and subject matter of	
and II(Option	,	sociology.	
Introduction	to	CO2. Demonstrate how sociology differ from and similar to other social	
Sociology	and	sciences and their areas of interdependence.	
Applied	to	CO3. Acquaint themselves with the basic concepts of sociology like society,	
Sociology		community, association, culture, social change, social stratification etc.	
		CO4. Know the basic social institution like family, marriage, kinship in a	
		scientific way.	
B.A.II (Opti	ional)	CO1.Understand the Conceptsof Socio Economic Issues.	
Sem. III and l	IV	CO2. Learn about Socio-Cultural and legal issues in Indian society.	
Social Issues	s in	CO3. Understand Concepts of Social and Peasant movements.	
India and	Social	<b>CO4</b> . Learn and understand about Dalit and Tribal movements.	
movements in 1	India	So ii Beam and anderstand about Bant and Thour mo vements.	
B.A.II (Opti	ional)	CO1. Understand the concepts of gender and violence.	
Sem. III and l	,	CO2. Understand domestic violence against women.	
Gender and		CO3. Introduction to sociology of health and realize the major diseases in India.	
Violence and		<b>CO4</b> . Learn about lifestyle and health and understand health policy in India.	
Sociology of Health			
B.A. III		CO1. Define sociological theory, understand its features and describe and	
(Special)		illustrate the role of theory in building sociological knowledge.	
Western & I	ndian	CO2. Know the contribution of founding fathers of sociology in developing	
Sociological		sociology as an academic discipline.	
Buciulugicai		CO3. Know the contributions of Western &Indian Sociologist.	









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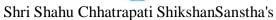
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Thinkers	
B.A. III	<b>CO1</b> . Understand the meaning, scope, types and significance of social research.
(Special)	CO2. Understand what a sampling method is and how it is useful in social
Methods of Social	research.
Research	CO3.Learn to collect, analyze data and how to write a research report.
B.A. III(Special)	CO1. Understand the major concepts, theoretical approaches and perspectives of
Political	political sociology.
Sociology&Social	CO2. To provide the conceptual understanding about anthropology
Anthropology	CO3. To understand the social aspects of tribal's in India.
B.A. III(Special)	CO1. Understand the nature & role of human rights in India
<b>Human</b> Rights	<b>CO2.</b> Contribute to the resolution of human rights issues and problems.
&Rural Sociology	CO3. Define rural sociology and demonstrate nature, subject matter and
	importance of studying rural sociology.
	CO4. Understand and analyze social, economic and political aspects of rural
	society.
B.A. III(Special)	CO1.Understand the development of knowledge in the field of Sociology of
Sociology of	Religion
Religion &	CO2. Different theories, approaches and concepts that make up the study of
Urban Sociology	religion.
8/	<b>CO3</b> . Understand the significance of the city and the process of urbanization.
	CO4. Know about urban processes such as migration, displacement and urban
	slums etc.









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### Department of History and S.T.D.

**Programme Name: B.A.** (Course: History)

Programm		r completion of the Programme, the students will be able to:		
PO1	Possess knowledg	ge of the various subjects which belong to humanities & languages		
PO2	Be competent with the qualities required for becoming cultured and ideal citizens of India.			
PO3	Be competent enough to face the competitive world and grab jobs at significant posts.			
DO 4	Possess a broad, 1	iberal foundation of human values that will make them shoulder		
PO4	social responsibil			
PO5	-	petence in written and oral communication in all branches of knowledge.		
		nes: After completion of the Programme, the students will be able to:		
		erstanding of the historical framework for the development of Indian		
PSO1	1 -	Understand background of our Nation.		
DG O 2		in-depth study in aspects of Ancient, Medieval and Modern to		
PSO2	Contemporary H			
DG O 2		present existing social, political, religious and economic conditions of the		
PSO3	Indian people.			
PSO4	4 4	l skills helpful in the study and understanding of historical events.		
Course Ou		apletion of the course, the student will be able to:		
B.A. Par		CO1: Understand the history of the Rise of Maratha Power.		
(Optional):		CO2: Acquaint the students with the sacrifices made by Maratha		
Maratha P		leadersand people for the sake of freedom and sovereignty of the region.		
Sem. II, P	Paper II: Polity,	CO3: Understand the Era of Marathas struggle in the history from 1600		
· ·	and Economy	to 1707.		
under the I	•	CO4: Understand the political, socio-economic and religious life of the		
		people during the period from 1600-1707.		
B.A.II (Op	tional) Sem. III:	CO1: Understand the beginnings and growth of nationalist		
Paper II		consciousness in Maharashtra.		
Modern	Maharashtra	CO2: Explain the contribution of Maharashtra to the national movement		
(1900 to	1960) and IV	CO3: Acquaint himself with the contribution of eminent leaders of		
Paper I	V:Historyof M	Maharashtra		
_	Maharashtra(1960-	CO4: Know about the economic transformation of Maharashtra		
2000)				
B.A.II (Op	tional) Sem. III:	CO1: Acquaint with significant events leading to establishment of the		
		rule of East India Company.		
(1757-1857	) and IV Paper	CO2: Understand the structural changes initiated by colonial rule in		
	ry of Freedom	Indian economy.		
Struggle (1	•	CO3: Understand the events which lead to the growth of nationalism in		
	· 	India.		
B.A.II	IDS)Sem. III:	CO1: Understand the salient features of prominent socio-religious		
Paper	I: Social	reform movements.		
Reforms	in India and	CO2: Explain the thought and work of Mahatma		
IV: Pape	er II: Social	Phule, Rajarshi Shahu Maharaj and Ambedkar.		
Reforms	in	CO3: Understand the contribution of women reformers.		
Maharas	htra			
B.A. III(S	Special): Paper	CO1: Understand the transition of humans in Indiafrom Hunters to		







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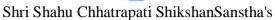
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No. VII: Early India and	Farmers.
Semester VI: Paper No.	CO2: Explain the transition from Early to Later Vedic period.
XII: Ancient India (From	VardhamanaMahavira.
4th c. BC to 7th c. AD)	CO3:Describe the rise and growth of the Mauryan Empire
·	After completing the course.
	CO4:Know the political, economic and religious developments which
	took place in early historic India.
B.A. III(Special):Semester	CO1:Describe the different types of historical sources available for
V: Paper No. VIII: History	writing the history of medieval India
of Medieval India (1206-	CO2:Explain the contributions of medieval rulers.
1526 AD), Semester VI:	CO3:Know about the various sources for writing Medieval Indian
Paper No. XIII: History of	history
Medieval India (1526-1707	CO4: Explain the role of rulers like Babar, Akbar, Chandbibi and
AD)	Ibrahim Adilshah II.
<b>B.A.</b> III(Special):Semester	CO1:Explain the causes and consequences of the Reformation
V: Paper No. IX Age of	CO2:Give an account of the role played by Martin Luther
<b>Revolutions; Semester VI:</b>	CO3:Explain the salient features of the Industrial revolution, American
Paper No. XIV Making of	and French Revolution.
the Modern World (16th to	CO4:Know the causes and consequences of the Glorious revolution in
19 <sup>th</sup> Century)	England
	CO5:Explain the concept of Nationalism, unification of Italy and
	Germanyand impact of Imperialism.
B.A. III(Special): Sem. V:	CO1:Describe the political conditions of the Marathas up to the
Paper No.: X Political	year1740
History of the Marathas;	CO2: Explain the role of BalajiBajirao,the causes and effects of the
Sem. VI: Paper No.: XV	Battle of Panipat.
Polity, Economy and	CO3:Know the various sources for writing the history of the Marathas
Society under the	CO4:Explain the significant developments in the polity of the Marathas.
Marathas	
B.A. III(Special): Sem. VI:	CO1:Understand the definition and scope of the subject of History
Paper No.: XI History: Its	CO2:Explain the process of presenting and writing history
Theory; Semester VI:	CO3:Understand the nature of archival sources
Paper No.: XVI Methods	CO4:Gain conceptual clarity about recent trends in history.
and Applications of	CO5:Know the application of history in museums.
History	









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**Department of Geography** 

ProgrammeName: B.A. (Course: Geography)

Programme Outcomes: After completion of the Programme, the students will be able to:		
PO1	Be a Good	d and Knowledgeable Citizen.
PO2	Understand the knowledge in the field of geography.	
PO3	Become c	onscious about the earth eco-system.
PO4	Get career	r opportunities.
PO5	Work for	the betterment of Society.
Programm	e Specific (	Outcomes: After completion of the Programme, the students will be able to:
PSO1		nd various branches of geography.
PSO2		nd geographical ideas and thoughts.
PSO3	Understa	nd the importance of healthy environment for living being.
PSO4	Develop t	the geographical skills and its applications in day-to-day life.
PSO5	-	or self-development as well as national development.
Course Ou	tcomes: Af	fter completion of the course, the student will be able to:
B.A. Part	I Sem. I	CO1.Know the basic concept of physical geography.
(Optional)		CO2. Understand the information concept regarding the earth's atmosphere.
Physical G	eography	CO3. Aware about interior of the earth movements, earth crust and catastrophic
DSC-10		forces.
		CO4. Aware about the external forces of the earth crust.
B.AI, S	Sem. I	CO1.Know the basic concept of human geography.
(Optional)		CO2. Understand the uneven distribution of population on the earth's surface.
Human		CO3. Learn about the types of human settlements and their functions
GeographyDSC- B24		CO4. Know about agriculture as a major occupation of human being and its problems.
	Optional)	CO1. Understand the basic concept of soil geography.
Sem. III P-	• ′	CO2.Understand the methods of soil conservations as a resource and
Soil Geogra		classification of Resources.
_		CO3. Acquire knowledge about major resources with their distribution,
Geography		utilization and problems.
Geography		CO4. To know the sustainable resource development and the conservation of
		resources.
B.A.II (	Optional)	CO1. Know the basic concept of Oceanography.
Sem. IV	opuonai)	CO2. Understand the importance of oceans and marine resources.
	nhv _ V	CO3. Able to know the Agricultural concept and modern technology used in
Oceanography – V Agriculture		agriculture.
Geography - VI		CO4. Know about the green revolution and its importance.
Geography - VI		CO4. Know about the green revolution and its importance.









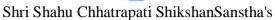
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Print. Dr. N. A. Sitalieutwati - M.A. B.Ed. Pr.D.NET (Maratni) B.J. Prione : (U) (0231) 2644204, (M) 996099585			
B.A. III. Sem. V	CO1. Understand the Evolution of Geographical Thought.		
(Special) P-VII	CO2. Understanding of recent trends in Geography.		
Evolution of	CO3. Get information of various models of paradigms and debates in the		
	geographical studies.		
Geographical	CO4. To analyse the recent trends in Geography.		
Thought	o o m o o managar managar a o o o go o group a o o		
B.A. III. Sem. V	CO1. Understand the Physicography of India. CO2. Know about the mechanism		
(Special) P-VIII	of Indian monsoon.		
Geography of India	CO3. Get information about soils, Vegetation and drainage systems in India.		
Geography of maia	CO4.Understand the importance of agriculture and Industries in Indian		
	Economy.		
B.A. III, Sem. V	CO1. Understand the basics of Population Geography.		
(Special) P-IX	CO2. Understand distribution and trends of population growth.		
Population	CO3. Acquainted with the implications of population composition in different		
Geography	regions of the world.		
Geography	CO4. Get acquainted with the dynamics of population.		
B.A. III, Sem. V	CO1. Understand the basics of Economic Geography.		
(Special) P-X	CO2. Knowledge about locational factors of economic activities with special		
Economic	reference to agriculture and Industry.		
Geography	CO3. Understanding of the basic concepts related to manufacturing and major		
Geography	manufacturing industries of the world.		
	CO4. Understand of the transport and trade.		
B.A. III. Sem. VI	CO1. Understand the basics of Urban Geography.		
(Special) P-XI Urban	CO2. Get acquainted with the factors of urbanization.		
Geography	CO3. Understand the urban problems and awareness of clean city.		
B.A. III. Sem. VI	CO1. Understand the basics of Political Geography.		
(Compulsory) P-XII	CO2. Understand the fundamental concepts and theories of PoliticalGeography.		
Political Geography	CO3. Get acquainted with resource conflicts and politics of displacement.		
B.A. III. Sem. VI	CO1. Understand the importance of Map making and map interpretation.		
(Special) P-XIII	CO2. Familiarize with the different cartographic techniques and methods to		
Practical	represent geographical data.		
Geography I	CO3. Understand the advanced tools and techniques used in geographical study.		
B.A. III. Sem. VI	CO1. Understand the importance of field work and techniques in geography.		
(Compulsory) P-XIV	CO2. Knowledge about the use of computer for analysis of geographical data.		
PracticalGeography	CO3. Understand the basics and trained in instrumental survey.		
II	CO4. Deeply familiar with computer, GIS, GPS and remote Sensing.		









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E-mail: ssc

### **Department of Political Science**

**ProgrammeName: B.A.** (Course: Political Science)

Programme Outcomes: After completion of the Programme, the students will be able to:		
	1	eadership with public vision.
		nnovative approach of the student towards profession in Political Science.
		nclusive understanding of representation.
		responsible citizen will informed in fundamental rights and obligations as well.
Programme		Outcomes: After completion of the Programme, the students will be able to:
PSO1		ganization of government machinery and representation.
PSO2		tiveness in translating the government philosophy into programme.
PSO3	Deal with	the concepts and dimensions of international politics.
PSO4	Understa	nd the constitutional and legal provision of America.
PSO5	Understa	nd the continuity and change within the western political traditions.
<b>Course Out</b>	comes: Af	fter completion of the course, the student will be able to:
B.A. Part I		CO1. Understand the key concept of Political Science, state, democracy, nation.
Sem. I	and	CO2. Understand Indian Constitution.
II(Optional)	)	CO3. Learn the Philosophy of Indian Constitution.
B.A.II (C	Optional)	CO1.Understand basic concept of Political Science and state theory.
Sem. III and	l IV	CO2. Acquaint with ancient Indian Political Thoughts.
		CO3. Understands in to theories of origin state.
B.A.II (C	Optional)	CO1. Get the knowledge Indian Political process and federal system.
Sem. III and	•	CO2. Understand political, social movements in India.
Some III will I v		CO3. Explain political classical traditional thoughts in India.
B.A. III		CO1. Understand modern political concepts, unitary and federal form
(Special)		Government System.
(Special)		CO2. Understand in election representation.
		CO3.Get comprehensive idea of contemporary scenario in Political Science.
D A III		CO1 Understand muhic marganal financial administration
B.A. III		CO2. Provide knowledge about theories advocated
(Special)		CO2. Provide knowledge about theories advocated. CO3. Give emphasis on Administrative Thinkers.
		-
B.A. III		CO1. Understand the main theories of International Politics.
(Special)		CO2. Understand the working of International, National, regional Organization.
		CO3. Understand current national and international political situation and foreign policy.
B.A. III		CO1. Understand the constitution of America and UK.
(Special)		CO2. Explain the constitutional and legal provision.
(Special)		CO3. Understand the differences and similarities between the various
		constitutional arrangements.
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B.A. III (Special)



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CO1. Understand the western classical tradition from Plato to Montesquieu.
CO2. Study historical aspects of western states and society.
CO3. Understand the modern western views from Hegel, Karl Marx and Lenin.









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### **Department of Economics**

**ProgrammeName: B.A. (Course:Economics)** 

Programme Name: B.A. (Course: Economics)  Programme Outcomes: After completion of the Programme, the students will be able to:		
PO1		economic leadership.
PO2		economic literacy.
PO3		skills required to respond to and analyze the global business and economic issues.
PO4	Get info	rmation of monetary policy, fiscal policy, international policy, product pricing and
	factor pr	
PO5	Acquire	information about past and present economic trends.
Programme	e Specific	Outcomes: After completion of the Programme, the students will be able to:
PSO1		and basic concepts of micro economics and macroeconomics.
PSO2	Create s	tudents' ability to suggest solutions for various economic problems.
PSO3	Analyze	past and present events from an economic perspective.
PSO4	Create a	warenessof economic activity in Indian and world economy.
Course Out	tcomes: A	After completion of the course, the student will be able to:
		CO1. Understand economic development since independence.
B.A. Part 1	Sem. I	CO2. Understand challenges facing the Indian economy.
and II(Opti	ional)	CO3.Get acquainted with the policies and performance of major sector in Indian
		economy.
B.A.II (O	ptional)	CO1. Know nature and scope of macro economics.
Sem. III an	d IV	CO2.Understand concepts of national income and value of money.
		CO3.Understand business cycles and theories of business cycles
		Understand general theory.
B.A.II (O	ptional)	CO1. Get information about commercial banking and credit creation.
Sem. III an	d IV	CO2. Know practical banking and understand functions of RBI and Monetary
		policy.
		CO3. Know E-banking and its importance.
B.A. III		CO1.Understand consumer decision making and consumer behavior.
(Special)		CO2. Understand the nature of revenue and cost of production.
		CO3. Identify the market structure. Principle of micro economics.
B.A. III		CO1. Identify the dimensions of development and know the theories of economic
(Special)		development.
		CO2. Get acquainted with economic planning and its Importance in
		development.
D A TIT		CO3. Understand Economic Planning in India.
B.A. III		CO2 Understand the measurement of going from international trade
(Special)		CO2.Understand the measurement of gains from international trade. CO3. Distinguish between balance of trade and balance of payments.
		Cos. Distinguish between balance of trade and balance of payments.





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B.A. III (Special)	CO1. Get acquainted with the basic concepts of research and its methodologies CO2. Understand the sampling techniques as a method of data collection CO3. Write a research report and thesis.
B.A. III	CO1. Understand the basic economic ideas of various economic thikers of the
(Special)	world.
	CO2. Understand the development of economic thoughts
	CO3. Understand the economic concepts and theories of Neo- Classical and
	Indian Thinkers.

# Faculty of Commerce Programme: B.Com.

### Programme Outcomes: After completion of the Programme, the students will be able to:

- **PO.1**) Gain theory and practical knowledge in the areas of management, accounting, finance, insurance, marketing, law, accounts, banking, business, economics.
- **PO.2**) Solve problems of business with analytical and critical thinking.
- PO.3) Learn P.G. courses like M.Com., M.B.A. and other courses.
- **PO.4**) Work in accounting, taxation, marketing, management and other Business-related areas.
- **PO.5**) Develop their entrepreneurship skills and become a successful Entrepreneur.

### (Course:Advanced Accountancy)

### Programme Specific Outcomes: After completion of the Programme, the students will be able to:

- **PSO.1**) Understand practical and theoretical aspect of accounting, auditing, costing and taxation.
- PSO.2) Complete M.Com. in Advanced Accountancy Subject.
- **PSO.3**) Get the chances of making career in accounting and taxation sector.

### (Course:Advanced Costing)

### **Programme Specific Outcomes: After completion of the Programme, the students will be able to:**

- **PSO.1**) Understand costing methods and techniques.
- **PSO.2**) Understand practical aspects of costing and cost accounting and management accounting.
- **PSO.3**) Pursue M.Com. in Advanced Costing Subject.

#### (Course:Industrial Management)

### Programme Specific Outcomes: After completion of the Programme, the students will be able to:

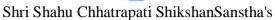
- **PSO.1**)Understand overall management of business unit.
- PSO.2) Understand Human Resource Management.
- **PSO.3**)Pursue career in industrial management sector.

#### (Course:Advanced Banking)

### Programme Specific Outcomes: After completion of the Programme, the students will be able to:

- **PSO.1**)Understand theoretical and practical aspects of banking sector.
- PSO.2) Understand capital market and money market operations.
- **PSO.3**)Pursue career in banking sector.









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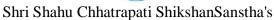
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### B. Com. I, Sem. I and II (NEP-1.0)

Course Outcomes: A	fter completion of the course, the student will be able to:
Micro Economics	CO.1) The student should be able to apply tools of consumer behavior and firm
Paper I and II(Core	theory to business situation.
Course)	CO.2) The student should be able to apply tools of consumer behavior and
	firmtheory to business situation.
Financial	CO.1) To get an idea about the basic of accounting, accounting concepts and
Accounting Paper I	conventions and accounting process.
and II (Core Course)	CO.2) To acquaint with skill of recording transactions related to amalgamation
	of partnership firm.
	CO.3) To understand the knowledge about computerized accounting.
	CO.4) To make use of knowledge and skill for accounting of branches.
Management	CO.1) To acquaint with the knowledge of organizing various resources.
Principles and	CO.2) To understand the concepts of authority and process ofdelegation of
Applications Paper I	authority.
and II (Core Course)	CO.3) To get an idea about motivation concept and theories.
	CO.4) To understand various emerging issues in management likegreen
	management and to understand concept of Change
Insurance Paper I	CO.1) To enable the students to know the fundamentals of Insurance.
and II (Generic	CO.2) To give exposure to the students about life
Elective Course)	insuranceproducts,Procedural part and life insurance business in India.
	CO.3) To give exposure to the students about generalinsurance, procedural
	part, general insurancebusiness and FDI in insurance in India.
Principles of	CO.1)The students will know various marketing concepts,basics of marketing
Marketing Paper I	and he or she will be able to assess forconsumer behavior.
and II(Generic	CO.2) The students will know about management of retailing operations and
Elective Course)	changing scenario of retail business in India.
Marathi Paper I and	CO.1) Understand Marathi literature and the creative process and nature of
II(Generic Elective	literature.
Course)	CO.2) Get the interest in reading Marathi literature.
	CO.3) Develop communication skills in formal and informal Marathi.
English for Business	CO.1) Toacquaintstudentswithcommunicationskills.
Communication	CO.2) Toimprovethelanguageandbusinesscompetenceofthestudents.
Paper I and	
II(Ability	
Enhancement	
Compulsory Course)	









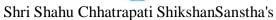
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Course Outcomes: Aft	Course Outcomes: After completion of the course, the student will be able to:		
Corporate Accounting	CO.1) Demonstrate accounting for issue of bonus shares, rights shares and		
Paper I and II	sweat equity.		
	CO.2)Demonstrate accounting for issue of debentures and redemption of		
	debentures.		
	CO.3)Demonstrate accounting for redemption of Preference Shares.		
	CO.4) Compute the value of shares as per distinct methods and differentiate		
	between them.		
Fundamentals of	CO.1) To impart theoretical knowledge of Entrepreneurship.		
Entrepreneurship	CO.2) To develop Entrepreneurship qualities and skills.		
Paper I and II	CO.3) To aware students about Business Plan and Project Report.		
	CO.4) Learn Business Planned Project Report.		
Money & Financial	CO.1) Students explain the concept of money, its new incarnations and flow		
System Paper I and II	in to the economy		
	CO.2) Understand the nature of banking business and business Practices.		
	CO.3) Students equipped explain and make use of the E- Banking services		
	CO.4) Students enable to analyze the stance of RBI's monetary policy		
Business Statistics	CO.1) To explain the scope of statistics in business and apply sampling		
Paper I and II	techniques in real life.		
	CO.2) To summarize data by means of measures of central tendency and		
	dispersion.		
	CO.3) Understand discrete and continuous random variables, their respective		
	probability distributions.		
	CO.4) Identify the applications of Binomial, Poisson and normal		
	distributions.		
Business Economics	CO.1) The macro variables and nature and scope of macro economics		
Paper III and IV	CO.2) The relevance of national income concepts and their applications.		
	CO.3) Theories of trade cyclein connection with business		
English for Business	CO.4) The trade and business practices through international trade theories CO.1) To equip the students with the language skills for use in their		
Communication Paper	personal, academic and professional lives.		
III and IV	CO.2)To develop students' employability skills.		
	CO.3) Show the active involvement in learning process.		
	CO.4) Cultivate a broad, human and cultured outlook.		
Environmental Studies	CO.1) Develop awareness amongst the students about environment		
(EVS)	protection.		
	CO.2) Familiarize with the serious consequences of pollution and		
	catastrophic loss.		
	CO.3) Understand the importance of sustainable development.		









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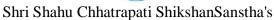
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### B. Com. III, Sem. V and VI (CBCS)

Course Outcomes: Afte	er completion of the course, the student will be able to:
Modern Management	CO.1) To understand the concept of lean and talent management.
Practices Paper I and II	CO.2) To know the concepts of emotional and social intelligence.
	CO.3) To know the concept of Event and Performance Management.
	CO.4)To impart knowledge of total quality management.
Business Regulatory	CO.1) Get legal awareness.
Framework Paper I and	CO.2) Understand various Laws and Acts which have impact on business
II	and industry.
	CO.3) Understand laws relating to Corporate Business Entities.
	CO.4) Understand SEBI act 1992.
	CO.5) Understand Business Transactions and Cyber security.
Business Environment	CO.1) Student should able to understand the significance and position of
Paper I and II	Indian economy at the world level.
	CO.2) Students should study the scenario of agricultural and industrial
	sectors.
	CO.3)Students will understand the Indian and global economic environment.
	CO.4) Students will equip with proper knowledge of Indian economic
	planning.
Co-operative	CO.1) To study the meaning and principles of Co-operation.
Development Paper I	CO.2) To Study the important cooperative organizations.
and II	CO.3) To study the cooperative legislations and fund management.
	CO.4) To understand the cooperative audit system and provisions.
Advanced Accountancy	CO.1) Practice the preparation of financial statements of banks.
Paper I	CO.2) Demonstrate accounting for farms and hire purchase system.
	CO.3) Explain the accounting process on Tally with GST.
Advanced Accountancy	CO.1) To understand the concept and types of audit.
Paper II	CO.2) To identify the residential status and its implication on tax liability.
	CO.3) To understand the concept of exemption from income.
Advanced Accountancy	CO.1) Practice the preparation of financial statements of banks.
Paper III	CO.2) Demonstrate accounting for farms and hire purchase system.
	CO.3) Simulate accounting situations of insurance claim.
Advanced Accountancy	CO.1) To understand the basic concepts of income tax and basis of charge.
Paper IV	CO.2) To identify the residential status and its implication on tax liability.
	CO.3) To understand the manner of computation of total income.
Advanced Costing	CO.1) To understand the basic concepts of cost accounting.
Paper I	CO.2) To classify the cost and apply the same for cost determination.
	CO.3) To understand the cost accounting procedure in respect of materials.
Advanced Costing	CO.1) To identify the meaning of overheads and its classification.
Paper II	CO.2) To understand different methods of absorption of overheads.









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	CO.3) To understand meaning of activity-based costing and its practical application.
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Advanced Costing	CO.1) To understand the concepts of job and unit costing.
Paper III	CO.2) To identify meaning of service costing and its application.
	CO.3) To understand procedure of contract costing and its practical
	implementation
Advanced Costing	CO.1) To know the applications of marginal costing in decision making.
Paper IV	CO.2) To understand prospects of cost accounting standards.
	CO.3) To know the concept and types of budgets and concept of budgetary
	control.
Industrial Management	CO.1) To make students familiar with the subject industrial management.
Paper I	CO.2) To expose the students the importance and applicability of industry
	management.
Industrial Management	CO.1) To make students familiar with the subject human resource
Paper II	management.
	CO.2) To expose the students the importance and applicability of human
	resourcemanagement.
Industrial Management	CO.1) To make students familiar with the subject industrial management.
Paper III	CO.2) To Expose the students the importance and applicability of industrial
	management.
Industrial Management	CO.1) To make students familiar with the subject industrial management.
Paper IV	CO.2) To expose the students the importance and applicability of industry
	management.
Advanced Banking	CO.1)Learners will be able to explain Regulatory Framework for Banking in
Paper I	India
1	CO.2) Learners will understand the important laws relating banking sector.
Advanced Banking	CO.3) Learners will understand different provisions under cyber-Laws.
Advanced Banking Paper II	CO.1) Learners will be able to explain Retail and Corporate Banking
rapei II	systems
	CO.2) Learners will understand business practices in money market and
	capital market.
	CO.3) Learners will understand functioning of different Intermediaries in
	Financial Markets
Advanced Banking	CO.1) Learners will be able to understand the nature and structure of
Paper III	Financial Market in India.
	CO.2) Knownegotiable instruments loanand advances and electronic
	banking.
	CO.3) Understand the legal aspects of banking transactions and its
	implications asbanker and customer.
Advanced Banking	CO.1) Learners will be able to understand the nature and structure of
Paper IV	Financial Market in India.
	CO.2) Learners will understand business practices in money market and







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### capital market

# Department of Commerce (PG) Programme Name: M. Com.

### Programme Outcomes: After completion of the Programme, the students will be able to:

- PO.1) Apply for UGC NET/SET or JRF exam.
- PO.2) Pursueadvanced studies in the area of research such as M.Phil., Ph.D.
- PO.3) Join accounting, banking, investment, taxation and insurance areas.
- PO.4) Get job in accountancy and business service that covers many areas such as audit and advisory work, taxation, business consulting, insurance and management accounting.

### **Course: Advanced Costing**

### Programme Specific Outcomes: After completion of the Programme, the students will be able to:

- PSO.1) Understand procedure of cost accounting.
- PSO.2) Understand costing methods and costing techniques.
- PSO.3) Pursue career in the field of Cost Accounting.

### **Course: Advanced Taxation**

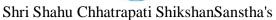
### Programme Specific Outcomes: After completion of the Programme, the students will be able to:

- PSO.1) Pursue career in the field of Direct and Indirect taxation.
- PSO. 2) Understand procedure of Direct and Indirect taxation.
- PSO. 3) Understand procedure of tax liability determination and E-Tax filing.

### M. Com. I Sem. I&II (NEP 2020)

Course Outcomes: After completion of the course, the student will be able to:		
Business Management	CO.1) Understand the theoretical aspects of management and strategic	
(Compulsory Paper I)	management.	
	CO.2) Describe the theoretical aspects of management and strategic	
	management.	
	CO.3) Understand the contemporary issues in management.	
Organizational	CO.1) Describe theoretical concepts of organizational Behaviour.	
Behavior (Compulsory	CO.2) Classify types of personalities Summarize types of conflicts.	
Paper II)	CO.3) Summarize adoption of organizational culture.	
Advanced Cost	CO.1) Understand the Basic Concepts of cost accounting.	
Accountancy	CO.2) Know the application of cost accounting in calculation of labour cost	
(Paper I and II)	and overheads.	
	CO.3) Understand the different techniques of material control.	
	CO.4) Prepare Bin Card and Stores Ledger.	
Advanced Cost	CO.1) Students will Prepare Cost Records under Job and Batch Costing	
Accountancy	CO.2) Students will Prepare Cost Records under Contract Costing, Process	
(Paper III and IV)	Costing and Operating Costing.	
	CO.3) Know the basic information related to income tax	







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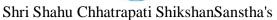
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	CO.4) Understand procedure of assessment and income tax authorities.
Advanced Cost	CO.1) To understand the techniques of costing for decision making.
Accountancy	CO.2) To Identify the standard costs and compare them with the actuals.
(Paper V and VI)	CO.3) To Understand the concept and applications of Cost Accounting
	Standards.
	CO.4) To Understand the reporting requirements under Cost Audit.
Advanced Cost	CO.1) To Understand the use of cost in different areas of decision making.
Accountancy	CO.2) To analyses the use of cost in pricing decisions.
(Paper VII and VIII)	CO.3) To Understand the basic concept and objectives of audit
	CO.4) To Know the recent trends in practice of audit.
Advanced Taxation	CO.1) To understand the Exemptions and Deductions.
(Paper I and II)	CO.2) To Compute Income from House property, Capital Gains and Income
	from other sources.
	CO.3) To Understand Clubbing of Income,Set-off and Carry Forward of
	Losses, Tax Rates.
A dans and a Transation	CO.4) Compute income of individual and HUF and Tax thereon.
Advanced Taxation	CO.1)To Know the penalties,Offences and Prosecutions,Income tax
(Paper III and IV)	Returns, E-filling of Returns and E-Payments of Taxes.
	CO.2) To understand the provisions of TDS and TCS.
	CO.3) To the basic information related to income tax.
Advanced Taxation	CO.4) To Understand procedure of assessment and Income tax Authorities.
	CO.1) To Understand the concept of Goods and Services Tax.
(Paper V and VI)	CO.2) To Identify the activities tax able under GST.
	CO.3) To know the significance of Invoices, Debit and Credit Notes.
	CO.4) To demonstrate the procedure of payment of GST and filling returns
A 1 170 /	of GST.
Advanced Taxation	CO.1) To Understand the basic concepts of customs duty and profession tax.
(Paper VII and VIII)	CO.2) To compute customs duty on imported products.
	CO.3) Understand the basic concepts and objectives of audit.
	CO.4)To Gain working knowledge of generally accepted auditing procedure.
Research Methodology	CO.1) Familiarity with basics of research
(Compulsory Paper)	CO.2) Designing research protocol for research problem.
	CO.3) To Preparation of the instruments for data collection.
	CO.4) Ability of analysis and interpretation of data.
On the Job Training	CO.1) Expose the Students to the real-life situation.
(OJT)	CO.2) Develop and ability of critical thinking
	CO.3) To analyze the problem in an origination and suggests and remedial
	actions.  CO.4) To gain working knowledge of the job and profession to get insides of
	the business.
	the business.









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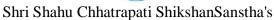
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Phone: (O) (0231) 2644204, (M) 9960995853

### M. Com. II Sem. III and VI(CBCS)

M. Com. II Sem. III and	` /
Business Finance Paper	CO.1) Apply fundamental concepts of business finance and examine various
I and II	finance decisions
	CO.2) Compare different types of capital structure &illustrate various
	components of Working Capital Management
	CO.3) Become familiar with practical trading techniques in Indian stock
	market
	CO.4) Become aware of recent trends in business finance scenario with
	specific reference to Startup Funding, Angel Financing and FinTech services
Management	CO.1) Understand the fundamentals of Management Accounting.
Accounting Paper I and	CO.2) Demonstrate the estimation of working capital requirements.
II	CO.3) Understand the fundamentals of Management Control System and
	Reporting.
	CO.4) Explain the marginal costing and cost-volume-profit analysis and
	practice decision making based thereon.
Advanced Costing	CO.1) To understand the techniques of costing for decision making
Paper V and VI	&toanalyze the cost for decision making with the help of marginal costing
_	CO.2) To demonstrate the behaviour of cost drivers and its relevance
	CO.3) To understand the concept and applications of Cost Accounting
	Standards
	CO.4) To understand the reporting requirements under Cost Audit
Advanced Taxation V	CO.1) To understand the basic concepts of customs duty and profession tax
and VI	CO.2) To understand the procedure of returns and assessment under
	Customs Act
	CO.3) To understand basic elements of computation and tax liability
	CO.4) To analyses various sources of income and their taxability
Advanced Costing	CO.1) Understand the use of cost in different areas of decision making.
Paper VII and VIII	CO.2) Understand the concept of transfer pricing and its applications.
	CO.3) To understand the concept of Cost Management
	CO.4) To demonstrate the measures of Performance Evaluation for Strategic
	Management
Advanced Taxation	CO.1) To understand the concept of Goods and Services Tax
Paper VII and VIII	CO.2) To understand the concept of Input Tax Credit under GST
	CO.3) To know the significance of Invoices, Debit and Credit Notes
	CO.4) To demonstrate the procedure of payment of GST and filing returns of GST









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B.C.A(Bachelor of Computer Application)		
ProgrammeOutcomes		
PO1	Apply knowledge of ICT in solving business problems.	
PO2	Learn various programming languages and custom software.	
PO3	Design component, or processes to meet the needs with in realistic constraints.	
PO4	Identify, formulate, and solve problems using computational temperaments.	
PO5	Comprehend professional and ethical responsibility in computing profession.	
PO6	Express effective communication skills	
PO7	Recognize the need for interdisciplinary, and an ability to engage in lifelong learning.	
PO8	Knowledge of contemporary issues and emerging developments in computing profession.	
PO9	Utilize the techniques, skills and modern tools, for actual development process.	
	Programme Educational Outcomes	
PEO1-Technical Expertise	Implement fundamental domain knowledge of core courses for developing effective computing solutions by Incorporating creativity and logical reasoning.	
PEO2-Successful Career	Deliver professional services with updated technologies in Computer application-based career.	
PEO3- Interdisciplinary and Life Long Learning	Develop leadership skills and incorporate ethics, team work with effective communication & time management in the profession. Undergo higher studies, certifications and technology research as per market needs.	









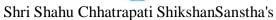
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Course Outcomes: A	After completion of the course, the student will be able				
to:	· ·				
B.C.A. – I (SemI) Fundamentals of Computer	CO.1 Understand basic concepts of computer. CO.2 Describe peripheral devices and number systems. CO.3 Understand operating environment CO.4 Demonstrate the use of Linux Operating system commands				
B.C.A. – I (SemI) Introduction to Programming using 'C'	CO.1 Able to implement the algorithms and draw flow charts for solvingMathematical problem.  CO.2 Ability to design and develop Computer programs, analyzes, and interprets the concept of pointers, declarations, initialization, operations on pointers and their usage.  CO.3 Able to define data types and use them in simple data processing applications also he/she must be able to use the concept of array of structures and file Handling.  CO.4 Develop confidence for self-education and ability for life-long learning needed for computer language.				
B.C.A. – I (SemI) Principle of Management	CO.1 Understand the influence of historical forces on current practice of management.  CO.2 Understand frameworks in the four functions of management.  CO.3 Understand leadership styles to anticipate the consequences of each leadership style.  CO.4 Be able to identify and apply appropriate management techniques for organizations.  CO.5 Understand social responsibility involved in business situations.				
B.C.A I(Sem I)Business Communication	CO.1 Communicate in English in written as well as oral mode. CO. 2 Make presentations in English. CO.3 Do effective business correspondence.				
B.C.A I(SemI)Office Automation	CO.1Understand the components of office automation CO.2 Perform operations using MS Word and PowerPoint CO.3 Surf details through Internet CO.4 Understand and discuss about the use of Office Package and internet in daily life.				
B.C.A. – I (SemII) DBMS	CO.1 Describe the basic concepts of DBMS and various databases used in real applications CO.2 Demonstrate the principles behind systematic database design approaches. CO.3 Design the database structure by applying the concepts of Entityrelational model and Normalization. CO.4 Learn MS-Access for database creation and handling transactions.				
B.C.A. – I (SemII) Operating System	CO.1 Possess knowledge of Operating Systems and their types. CO.2 Apply the concept of a process and scheduling algorithms.				









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	CO.3 Realize the concept of deadlock and different ways to handle it. CO.4 Understand various memory management techniques and file system.				
B.C.A. – I (SemII)	CO.1 Understand basics of website and web development lifecycle.				
Web Technology I	1				
80	CO.2 Design web site using HTML and CSS				
	CO.3 Implement client-side scripting for website development CO.4 Understand importance and working of HTML 5 CO.				
B.C.A. – I (SemII)	CO.1 Use basic accounting terminology, procedures and				
Financial Accounting	systems of maintaining accounting records.				
with Tally	CO.2 Understand financial statements				
	CO.3 Learn to create company, enter accounting voucher entries and				
	also print financial statements, etc. in Tally.				
	CO.4 Demonstrate MIS reports in Tally ERP.				
B.C.A. – I (SemII)	CO.1 Basic knowledge of set theory, functions and relations				
Mathematical	concepts, matrix needed for designing and solving problems.				
<b>FoundationsforComputer</b>	CO.2 Construct simple mathematical proofs and possess the ability				
Applications	to verify them.				
	CO.3 Write an argument using logical notation and determine if the				
	argument is valid or is not valid.				
	CO.4 Use graph algorithms to solve problems.				
B.C.A. –II (SemIII)	CO.1 Describe the fundamental elements of Relational Database				
RDBMS	Management Systems.				
	CO.2 Explain various commands, sub queries & joins in MySQL with				
	example.				
	CO.3 Enhance programming skills and techniques using MySQL and				
	PL/SQL				
	CO.4 To solve database problems using MySQL and PL/SQL by using				
	Cursors and Triggers.				
B.C.A. –II (SemIII)	CO.1 Understand the concept of computer network.				
Computer network &	<u> </u>				
internet	1 1				
medici	CO.3 Recognize the functions of network layer sand different protocols. CO.4 Discuss the important features of the Internet and Web.				
B.C.A. –II (SemIII)	-				
Data structure using 'C'	CO.1Use and implement appropriate data structure for the required				
Data structure using C	problems using a programming language such as C.				
	CO.2 Understand various searching & sorting techniques.				
	CO.4 Implementation of Lipked Liets and Trees				
D.C.A. H.(C. HE)	CO. 1 Parameters the data in midstain and Trees.				
B.C.A. –II (SemIII)	CO. 1 Represent the data in pictorial and graphical form.				
Elements of statistics	CO. 2 Describe and understand the data with the help of various				
	measures of data.				
	CO. 3 Analyze bivariate data.				
	CO. 4 Understand the concept of probability and probability				
	distributions.				









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B.C.A II (Sem. III)	CO.1 Understand HR Management and planning.					
Human resource	CO.2 Describe process of Appraisal/training and					
management & materials	Development.					
management	CO.3 Recognize Integrated approach to Material					
	Management and computerApplications in Material					
	Management.					
	CO.4 Demonstrate HR in purchasing and Inventory control techniques.					
B.C.A II (Sem. III)	CO.1 Enhance Self Understanding.					
Skill Development III	CO.2 Understand Business Etiquette and Manners.					
B.C.A.–II (SemIV)	CO.1 Understand object-oriented programming and advanced C++					
<b>Object Oriented</b>	concept.					
<b>Programming Using C++</b>	CO.2 Apply the concepts of object, classes and constructor.					
	CO.3 Design C++ Programs based on object, class, inheritance,					
	abstraction, encapsulation, dynamic binding and polymorphism.					
	CO.4 Implement concept of polymorphism in program.					
B.C.AII (SemIV)	CO.1 Understand lifecycle models, requirement elicitation techniques,					
Software Engineering	understand the concept of analysis and design of software.					
	CO.2 Develop SRS document.					
	CO.3 Use of analysis and design tools for system development.					
	CO.4Apply software engineering concepts in software development to					
	develop quality software.					
B.C.AII (SemIV) PHP	CO.1 Understand the basics of PHP programming language and its					
	role in web development.					
	CO.2 Implement functions and arrays in PHP to solve programming					
	problems.					
	CO.3 Design web forms using HTML and process user input using PHP.					
	Execute file uploads and perform file handling operations in PHP					
	applications.					







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**Faculty of Science** 

Programme Name: B. Sc. (Course: Botany):

Programme	Outcomes: Afte	r completion of the Programme, the students will be able to:		
PO. 1	Develop skill in practical work and experiment in laboratory.			
PO. 2	Understand scientific terms, concepts, facts, phenomenon and their relationships.			
PO. 3	Work in the field of research and other fields of their own interest and to make them fit for society.			
PO. 4	Acquire knowledge of plant and related subjects so as to understand natural phenomenon			
PO. 5	Develop ability other related fie	for the application of the acquired knowledge to improve agriculture and elds.		
		nes: After completion of the Programme, the students will be able to:		
PSO. 1		oundation in classical botany.		
PSO. 2	Build capacity in Horticulture, Greenhouse management, Production of cut flowers and loose flowers from the elective courses offered.			
PSO. 3	Build life skills in Edible mushroom cultivation, Bio fertilizer production, Greenhouse maintenance and Seed technology through value-added courses.			
PSO. 4	Scale up the biological resources by designing optimization, preparation and analysis of products required for Society.			
PSO .5		eaching/research in Botany.		
<b>Course Outo</b>		npletion of the course, the student will be able to:		
B.Sc. Part I No. I	Sem. I Paper MICROBES,			
ALGAE	AND	CO2. Students will able to understand the bacterial types, structure and		
BIOFERTII	LIZER	mode reproduction		
		CO3. Students will able to identify the different types of algae and their importance in day today life.		
		<b>CO4.</b> Students will able develop the skills for the production of different type of Bio fertilizers,		
B.Sc. Part I	Sem. I Paper	CO1. Students will able to distinguish the prokaryotic and eukaryotic		
· • • • • • • • • • • • • • • • • • • •		organisms and acquire the knowledge of different plant cell organelles		
		and its role in the plant body.		
TECHNIQUE		CO2. Students will able to understand the different types of cell division		
		and its phases.		
		CO3. Students will able to handle all types of microscope.		
		CO4. Students will able to develop a skill in the chromatography		
		techniques.		

B.Sc. Part I Sem. II Paper   CO1. Students will able to identify and classify the different fungi					
No. III <b>MYCOLOGY</b> ,	also realize the economic importance of fungi.				
PHYTOPATHOLOGY	CO2. Students will able to identify the lichens on the basis of				
AND MUSHROOM	morphology and to know the medicinal value of the lichens.				
CULTIVATION	CO3. Students will be able to recognize the different plant diseases and				
	their management.				
	CO4. Students will able to develops the soft skill technique in the				









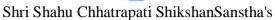
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	Mushroom Cultivation and realize the commercial status of the mushrooms.
B.Sc. Part I Sem. II Paper	CO1. Students will able to identify the bryophytes their importance.
No. IV <b>ARCHEGONIATE</b>	CO2. Students will able to recognize the characters and ecological
	importance of pteridophytes.
	CO3. Students will be able to identify, classify the gymnosperms and
	understand the Economic importance of gymnosperms.
B.Sc. Part II Sem. III Paper	<b>CO.1</b> . To know the scope and importance of the plant systematically
No. V	<b>CO.2</b> To understand plant morphology. nomenclature and classification
PLANT SYSTEMATICS	<b>CO.3</b> . To prepare and demonstrate herbarium and to understand
AND ANATOMY	importance of Botanical garde
	<b>CO.4</b> . To examine internal organization of plant organs.
B.Sc. Part II Sem. III Paper	<b>CO.1</b> . To understand the principles of Mendelian inheritance and gene
No.VI	interaction.
GENETICS AND	CO.2. To differentiate between structural and numerical variations in
MOLECULER	chromosomes.
BIOLOGY	
BIOLOGI	<b>CO.3</b> . To analyze and solve genetic problems on linkage and crossing
	over.
	CO.4. To know the composition and significance of nucleic acids.
B.Sc. Part II Sem. IV Paper	CO.1. To understand core concepts of biotic and abiotic components.
No. VII	CO.2. To gain and insight in to the diverse ecosystem, related food
PLANT ECOLOGY AND	web and ecological.
ECONOMIC BOTANY	CO.3. To prepare map of Phytogeographical regions of India.
	<b>CO.4</b> . Know importance of plants and plant products and their utility.
B.Sc. Part II Sem. IV	<b>CO.1</b> . To understand various physiological processes in plants.
Paper No. VIII <b>PLANT</b>	<b>CO.2</b> . To understand significance and mechanism of photosynthesis.
PHYSIOLOGY,	<b>CO.3</b> . To know the process of respiration in higher plants.
NURSERY AND	<b>CO.4</b> . To design outlines of landscaping and home gardening.
GARDENING	
TECHNIQUES	
B.Sc. Part III Sem. V Paper	<b>CO.1.</b> I. Understand the Structure and Function of Reproductive Organs.
N. IV	<b>CO.2.</b> Explain the Process of Pollination and Fertilization.
No. IX	<b>CO. 3.</b> Understand the Development of Fruits and Seeds.
REPRODUCTIVE	<b>CO.4.</b> Analyze the Reproductive Strategies of Angiosperms
BIOLOGY OF	
ANGIOSPERM	
B.Sc. Part III Sem. V Paper	CO.1.Understand Plant Metabolic Pathways.
No. X	CO.2.Explain Plant Stress Responses
PLANT METABOLISUM	CO.3. Analyze Plant Hormone Signaling.
AND STRESS BIOLOGY	CO.4, Understand Plant Defense Mechanisms.
III D DILLOO DIOLOGI	Cott, Charletana I and Delende Micenaniania.









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B.Sc. Part III Sem. V Paper No. XI PLANT BIOTECHNOLOY	CO.1.Understand the Structure and Function of Biomolecules. CO.2. Describe the process of nitrogen fixation, including the role of legumes and Rhizobia. CO.3. Explain the impact of environmental factors, such as light, temperature, and drought, on plant metabolism. CO.4. Demonstrate Practical Skills in Plant Biochemistry		
B.Sc. Part III Sem. V Paper No. XII HORTICULTURE	<ul> <li>CO.1.Discuss about Importance and divisions of Horticulture</li> <li>CO.2.Discuss about Horticultural Produce and Management of Pest and diseases in flowering plants.</li> <li>CO.3. Know the Nursery techniques and explain about plant propagation methods.</li> <li>CO.4. Know the outdoor &amp; indoor gardening.</li> </ul>		
B.Sc. Part III Sem. VI Paper No. XIII PLANT BIOCHEMISTY AND RESEARCH METHODOLOGY	CO.1. Describe the major biochemical pathways in plants, including photosynthesis, respiration, and nitrogen metabolism.  CO.2 Apply research methodology principles to design and conduct experiments in plant biochemistry.  CO.3. Explain the applications of molecular biology techniques in plant biochemistry research.  CO.4. Demonstrate Practical Skills in Plant Biochemistry		
B.Sc. Part III Sem. VI Paper No. XIV NATURAL RESOURCE MANAGEMENT AND HERBAL TECHNOLOGY	CO.1.Describe the importance of natural resource management for sustainable development.  CO.2.Apply herbal techniques for the conservation and sustainable use of medicinal plants.  CO.3.Explain the principles of indigenous knowledge systems and their application in natural resource management.  CO.4.Analyze the Impact of Human Activities on Natural Resources.		
B.Sc. Part III Sem. VI Paper No. XV PLANT DIVERSITY AND ETHNOBOTANY	CO.1. Describe the different levels of plant classification, including species, genus, family, order, class, and kingdom.  CO.2. Explain the factors influencing plant diversity and distribution, including climate, soil, and evolutionary history.  CO.3. Analyze and interpret ethnobotanical data using statistical and qualitative methods.  CO4. Apply scientific writing and presentation skills to communicate plant diversity and ethnobotany information to different audiences.		
B.Sc. Part III Sem. VI Paper No. XVI PLANT BREEDING, BIOINFORMATICS AND BIOSTATISTICS	CO.1.Describe the principles of plant breeding, including selection, hybridization, and mutation breeding.  CO.2.Apply bioinformatics tools and techniques, including BLAST, PCR primer design, and phylogenetic analysis.  CO.3.Develop and defend well-supported arguments and hypotheses related to plant breeding and biotechnology.  CO.4.Prepare and deliver effective oral presentations, including seminars and poster presentations.		







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Programme Name: B. Sc. (Course: Zoology):

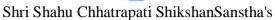
**Department of Zoology** 

Programm	Programme Outcome-		
PO1	To make curiosity in the students for Zoology subject.		
PO2.	To create awareness amongst students for the basic and applied areas of Zoology.		
PO3.	To orient students about the importance of abiotic and biotic factors of environment		
	and their conservation		
PO4.	To provide an insight to the aspects of animal diversity.		
PO5.	To Know the Animals physiology, behavior and its characteristics.		
PO6.	To inculcate good laboratory practices in students and to train them about proper		
	handling of lab instruments.		

Programm	Programme Specific Outcome			
PSO1.	Understand the nature and basic concepts of cell biology, genetics, taxonomy,			
	physiology, ecology and applied Zoology.			
PSO2.	Perform procedures as per laboratory standards in the areas of Taxonomy,			
	Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science,			
	tools and techniques of Zoology, Toxicology, Sericulture, Biochemistry, Fish			
	biology, Animal biotechnology, Immunology.			
PSO3.	Understand the applications of Zoology in Agriculture, Medicine and daily life.			
PSO4.	Gains knowledge about research methodologies, effective communication and skills			
	of problem-solving methods			
PSO5.	Contributes the knowledge for Nation building.			
	-			

Course Outcome			
After successfully completing this course, students will be able to:			
B. Sc. Part – I Sem.– I	CO1:	Describe general taxonomic rules on animal classification.	
Paper- I Animal Diversity-	CO2:	Classify Protista up to phylum using examples from parasitic	
I)		adaptation.	
	CO3:	Describe Phylum Nematoda and give examples of pathogenic	
		Nematodes.	
B. Sc. Part – I Sem.– I	CO1:	Describe the structure and function of plasma membrane.	
Paper - II (Cell biology and			
<b>Evolutionary Biology)</b>	CO2:	Understand Structure, functions and interactions of cell organelles	
		and inclusions.	
	CO3:	Explain the basis of evolution and fossil formations.	
B. Sc. Part – I Sem.– II	CO1:	Describe general taxonomic rules on animal classification.	









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Phone: (O) (0231) 2644204, (M) 9960995853

Paper – III (Animal	CO2:	Identify and to study different vectors.
Diversity and insect		
vectors)	CO3:	Explain the various disease which occurs from vectors
	CO4:	Describe the physiology of Rat.
B. Sc. Part – I Sem.– II	CO1:	Explain Mendalism expanding Mendel's Laws.
Paper – IV (Genetics)	CO2:	Explain sex determining systems and dosage compensation.
	CO3:	Describe mutation, mutagenesis and repair
	CO4:	Explain the process of gene expression and applications.
B. Sc. Part II Sem III	CO1:	Understand the underlying principles of classification of animals
PAPER-V (Animal		like Protochordata to Mammal.
Diversity-II)	CO2:	To Understand the differences and similarities in the various
		aspects of classification.
	CO3:	To classify vertebrates and to be able to understand the possible
		group of the vertebrate observed in nature.
	CO4:	To identify poisonous nonpoisonous snakes.
	CO5:	To study the digestive and respiratory system in aves.
B. Sc. Part II Sem III	CO1:	To simplify the concepts of Biochemistry.
Paper – VI Biochemistry	CO2:	Define the DNA and RNA
	CO3:	Explain enzyme types, classification, reactions.
	CO4:	Explain the metabolism of Carbohydrate, Protein and Lipid.
Sem. IV Paper VII	CO1:	Explain the male and female reproductive system and its work.
Reproductive Biology	CO2:	Understand the process of formation of male and female gametes
		separately.
	CO3:	To know the different male and female reproductive related disorders.
Paper - VIII Applied	CO1:	To understand Host parasite Relationship
Zoology -I	CO2:	To know Epidemiology of Diseases.
	CO3:	To understand about Insects of Economic Importance.
	CO4:	To gain the knowledge related to Poultry Farming.
B. Sc. Part III Semester-	CO1.	Explain integumantory systems.
VPaper- IX DSE-E29	CO2.	To know the skeletal system of vertebrates.
(Comparative Anatomy Of	CO3.	To illustrate the comparative difference in vertebrates.
Vertebrates)	CO4.	To understand the specific animal system difference.
Paper- X	CO1:	Explain DNA structure.
DSE-F29 (Molecular Cell	CO2:	Paraphrase the Central dogma of molecular biology.









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Filli. Di. K. K. Silalleulwall - W.A. B.Ed.		waratnij b.J. Pnone : (U) (U231) 20442U4, (Wi) 990U995853
Biology and Animal Biotechnology	CO 3:	Illustrate the mechanism of replication, transcription and translation.
G	CO4:	To understand the cloning techniques and vectors.
	CO5:	To knowing the various principles of biological techniques.
Paper- XI DSE-F30	CO1:	Explain the basic methods to make genetically modified animals.
(Biotechniques and	CO2:	To understand applications of Transgenic animals.
<b>Biostatistics</b> )	COA	•
	CO3:	To illustrate the classification of data.
	CO4:	To solve the measures of central tendancy.
	CO5:	Describe the Dispersion and correlation.
B. Sc. Part III Semester- VI	CO1:	To understand the aquatic biome.
Paper- XII DSE-F31 (Aquatic Biology and	CO2:	Students know the biology of freshwater bodies.
Endocrinology)	CO3:	Justify the endocrine disorders.
	CO4:	To understand anatomy and histology of glands.
	CO5.	Explain nature, role, regulation of endocrine glands.
Paper- XIII DSE-E30	CO 1:	Identify the developmental stages.
(Developmental Biology Of	CO2:	Describe the key events in early and systematic embryological
Vertebrates)		development.
	CO3:	Explain the theories of preformation, and concepts like growth,
	CO 4	differentiation and reproduction.
	CO 4:	Explain the principles and process of fertilization and cleavage.
	CO5:	Elucidation of early embryonic development of invertebrates and
Paper- XIV DSE-E32	CO1:	vertebrates.  Explain general information of immune system.
(Immunology)	CO2:	Understands cells and organs which involves in immune system.
(minumology)	CO2:	Student should know the structure of antigen, antibody and its
	CO3.	mechanism.
Paper- XV DSE-E31	CO1:	Understands processes of fisheries, sericulture, along with crop pest
(Applied Zoology - II)		management techniques.
	CO2:	Students gain knowledge about various disease related vectors and
	CO3:	their impact on human.  Understands concepts of apiculture, poultry, dairy along with tissue
	CO3.	and cell culture techniques.
Paper- XVI DSE-F32	CO1:	Identify and to study different vectors.
(Insect Vectors and	CO2:	Explain the various disease which occurs from vectors
Histology)	CO3:	Define the basic terms in histology.
	CO4:	List the various types of tissues.
	CO 5:	Identify the histological peculiarities in various organs.
	CO 6:	Explain the location, structure and functions of various organs.
B.Sc. III	CO1:	First-hand knowledge about identification of non-chordate and
Practical Paper I, II, III, IV		chordate specimens (fresh and preserved) along with larval forms
		and study of endoskeleton of vertebrates.







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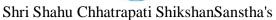
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CO2: CO3:	Students are able to handle microscopes, and micrometers.  Identification of zooplanktons and phytoplanktons.
CO4:	Gain skill about histological slide preparation, staining and
CO5:	mounting Students gain skill about determination of pH and quantitative
CO6:	analysis of blood cells.  Students are able to parasites from rectal and fecal contents of
CO7:	animals.  Students are able to collect parasite and pest specimen

Program Name: - B. Sc Mathematics 2023-2024		
	meOutcom	
PO1	Scientifi	c temper will be developed in Students
PO2	Students	will acquire basic Practical skills like scilab,python software & Technical
	knowled	ge along with domain knowledge of different subjects in the science stream.
PO3		will become employable; they will be eligible for career opportunities in Industry,
		e able to opt for entrepreneurship.
PO4		will possess basic subject knowledge required for higher studies, professional and
	applied of	courses like Management Studies, Law etc.
PO5	Students	will be aware of and able to develop solution-oriented approach towards various
	Social an	nd Environmental issues
Program	me Specific	e Outcome
PSO1	A stude	nt should be able to recall basic facts about mathematics and should be able to
	display l	knowledge of conventions such as notations, terminology.
PSO2	A studer	nt should get adequate exposure to global and local concerns that explore them
	many as	pects of mathematical sciences.
PSO3	Student	is equipped with mathematical modeling ability, problem solving skills, creative
	talent an	d power of communication necessary for various kinds of employment.
<b>PSO4</b> Student should be able to apply their skills and knowledge that is transfer of the should be able to apply their skills and knowledge that is transfer of the should be able to apply their skills and knowledge that is transfer of the should be able to apply their skills and knowledge that is transfer of the should be able to apply their skills and knowledge that is transfer of the should be able to apply their skills and knowledge that is transfer of the should be able to apply their skills and knowledge that is transfer of the should be able to apply their skills and knowledge that is transfer of the should be able to apply their skills and knowledge that is transfer of the should be able to apply the should be ab		should be able to apply their skills and knowledge that is translate information
	presente	d verbally into mathematical form, select and use appropriate mathematical
		e or techniques in order to process the information and draw the relevant
	conclusi	
PSO5	_	g students to develop a positive attitude towards mathematics as an interesting and
~ .		subject of study.
Course (	<b>Jutcome</b>	
B.ScI		By the end of course, the student will be able to:
Mathematics		CO1. Evaluate the limit and examine the continuity of a function at a point.
Sem-I		CO 2 Understand the consequences of mean value theorem for differential
Paper-I	Calculus	function
		CO 3. Apply Leibniz's theorem to obtain higher derivatives of product of two
		differentiable functions.







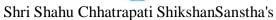


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B.ScI	CO 1. Understand types of differential equations.
Mathematics	CO 2. Solve different types of ordinary differential equations.
Sem-IPaper-II	CO 3. Understand application of differential equations.
(Differential	
<b>Equation</b> )	
B.ScI	CO 1.1. Learn conceptual variation while advancing from one variable to several
Mathematics	variables in calculus.
Sem-IIPaper-III	CO2. Set up and solve optimization problems involving several variables.
Multivariable	CO3. Learn the concept of Jacobian of a transformation.
Calculus	•
B.ScI	CO1. 1.Use fundamental concepts in Mathematics like sets, relation and
Mathematics	functions.
Sem-IIPaper-IV	CO2. Use fundamental concepts in Number theory.
Basic Algebra	CO3. Solve examples on congruence.
8	CO4. Determine nth roots of unity.
	CO5. Understand various properties of hyperbolic functions.
B.ScII	CO1: identify types of higher order ordinary differential equations.
Mathematics	CO2: solve different types of higher order ordinary differential equations.
Sem-III	CO3: understand geometrical interpretation of simultaneous and total differential
<b>Elements</b> of	equations.
Differential	
Equations	
B.ScII	CO1: find numerical solutions of algebraic, transcendental and system of linear
Mathematics	equations.
Sem-III	CO2: learn about various interpolating methods to find numerical solutions.
Numerical	CO3: find numerical solutions of integration and ODE by using various methods.
Methods	CO4: apply various numerical methods in real life problems.
D Co. II	
B.ScII	CO1: understand and evaluate the concepts of gradient, divergence and curl of
Mathematics	point functions in terms of cartesian co-ordinate system.
Sem-IV	CO2, understand and evaluate different traces of line evaluate internal
Vector Calculus	CO2: understand and evaluate different types of line, surface & volume integrals
D.C. II	and the two integral transformation theorems of Gauss and Stokes.
B.ScII	CO2: understand special functions.
Mathematics	CO 2: understand types of multiple integrals.
Sem-IV	CO 3: apply special functions in applications.
	CO 4: apply multiple integrals in real life problems.
Integral Calculus	









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Pilli. Di. R. R. Silalieulwai	N - M.A. B.Ed. Ph.D.NET (Marathi) B.J. Phone : (O) (0231) 2644204, (M) 99609958:
B.ScIII	CO1. The integration of bounded function on a closed and bounded interval
<b>Mathematics</b>	CO2. Some of the families and properties of Riemannintegrable functions
Sem-V	CO3. The applications of the fundamental theorems of integration
Sem- v	CO4. Extension of Riemann integral to the improper integrals when either the
DGE E0	interval ofintegration is infinite or the integrand has infinite limits at a finite
DSE – E9	number of pointson theinterval of integration
Mathematical	CO5. The expansion of functions in Fourier series and half range Fourier series
Analysis	
B.ScIII	CO1. Basic concepts of group and rings with examples
Mathematics	CO2. Identify whether the given set with the compositions form Ring, Integral
Sem-V	domain or field.
DSE - E10	CO3. Understand the difference between the concepts Group and Ring.
Abstract Algebra	CO4. Apply fundamental theorem, Isomorphism theorems of groups to prove
	these theorems for Ring.
	CO5. Understand the concepts of polynomial rings, unique factorization domain.
B.ScIII	CO1. provide student basic knowledge of a range of operation research models
Mathematics	and techniques, which can be applied to a variety of industrial and reallife
Sem-V	applications.
	CO2. Formulate and apply suitable methods to solve problems.
<b>DSE</b> – <b>E11</b>	CO3. Identify and select procedures for various sequencing, assignment,
Optimization	transportation problems.
Techniques	CO4. Identify and select suitable methods for various games.
-	CO5. To apply linear programming and find algebraic solution to games.
B.ScIII	CO1. Understandconcept of Laplace Transform.
Mathematics	CO2. Apply properties of Laplace Transform to solve differential equations.
Sem-VDSE – E12	CO3. Understand relation between Laplace and Fourier Transform.
Integral	CO4. Understand infinite and finite Fourier Transform.
Transforms	CO5. apply Fourier transform to solve real life problems
B.ScIII	CO1. Acquire the knowledge of notion of metric space, open sets and closed sets.
Mathematics	CO2. Demonstrate the properties of continuous functions on metric spaces,
Sem-VI	CO3. Apply the notion of metric space to continuous functions on metric spaces.
	CO4.Understand the basic concepts of connectedness, completeness and
DSE – F9	compactness of metricspaces,
<b>Metric Spaces</b>	CO5. appreciate a process of abstraction of limits and continuity to metric
	spaces,
B.ScIII	CO1. Understandnotion of vector space, subspace, basis.
<b>Mathematics</b>	CO2.Understand concept of linear transformation and its application to real life
Sem-VI	situation.
DSE – F10	CO3. Work out algebra of linear transformations.
Linear Algebra	CO4. Appreciate connection between linear transformation and matrices.
Linear Aigebra	CO5. Work out eigen values, eigen vectors and its connection with real life
	situation.





### Shri Shahu Chhatrapati ShikshanSanstha's



# SHRI SHAHAJI CHHATRAPATI MAHAVIDYALAYA

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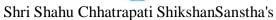
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B.ScIII	CO1. Learn basic concepts of functions of complex variable.
Mathematics	CO2. Be introduced to concept of analytic functions.
Sem-VIDSE – F11	CO3. Learn concept of complex integration and basic results thereof.
Complex Analysis	CO4. Be introduced to concept of sequence and series of complex variable.
	CO5. Learn to apply concept of residues to evaluate certain real integrals.
B.ScIII	CO1. Use classical notions of logic: implications, equivalence, negation, proof
Mathematics	by contradiction, proof byinduction, and quantifiers.
Sem-VI	CO2. Apply notions in logic in other branches of Mathematics.
<b>DSE</b> - <b>F12</b>	CO3. Knowelementary algorithms: searching algorithms, sorting, greedy
Discrete	algorithms, and their complexity.
Mathematics	CO4. Apply concepts of graph and trees to tackle real situations.
	CO5. Appreciate applications of shortest path algorithms in computer science.









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Programme Name: B. Sc. (Course: Statistics): - 2023 – 24.		
Prograi	mme Outcomes: A	fter completion of the Programme, the students will be able to:
PO 1	Understand how to	o use statistical knowledge for analysis.
PO 2	Understand the c various fields.	oncept of probability and the statistical distributions and applications in
PO 3	Understand the pr	inciples, concepts and recent developments in the Statistics.
PO 4	Understand how to	o design of experiment and survey sampling are used in real life.
PO 5	Learn the various	concepts in Statistics.
Prograi	mme Specific Outo	comes: After completion of the Programme, the students will be able to:
PSO 1	Be a Business ana	lyst, Research Officer, Data Analyst or Data Investigator.
PSO 2	Work in governmetc.	ent sector and do research on Consumer prices, Population trend, Economy
PSO 3	Do research work	in various fields.
Course	Outcomes: After o	completion of the course, the student will be able to:
B.Sc.	Part-I Sem.: I	CO.1 Analyze data and types of data, various data presenting methods and
Paper-I		population, sample and various methods of sampling.
(DESCI	RIPTIVE	CO.2 Compute various measures of central tendencies, dispersion,
STATIS	STICS I)	moments, skewness, kurtosis and to interpret them.
B.Sc. 1	Part -I Sem.: I	CO.1 Distinguish between random and non-random experiments.
Paper-I	I	CO.2 Find the probabilities of various events.
(ELEMENTARY		CO.3 Understand concept of conditional probability and independence of
PROBA	ABILITY	events.
THEO	RY)	CO.4 Understand the concept of univariate random variable and its
		probability distribution.
		CO.5 Understand the concept of mathematical expectation of univariate
		random variable.
B.Sc.	Part-I Sem.: II	
Paper-I		CO.2 Compute regression coefficient, interpret its value and use in
`	RIPTIVE	regression analysis.
STATIS	STICS – II)	CO.3 Understand the concept of independence and association between two
		attributes.
		CO.4 Study the vital statistics and concepts related with mortality fertility
		and growth rates.
B.Sc. Part-I Sem.: II		CO.1 Distinguish between discrete variables.
Paper IV		CO.2 Know some standard discrete probability distributions with real life
(DISCRETE		situations.
PROBABILITY		CO.3 understand concept of bivariate distributions and computation of
<b>DISTRIBUTIONS</b> )		related probabilities and mathematical expectation of bivariate discrete
		random variable.









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B.Sc. Part -II Sem.: III	CO.1understand concept of discrete and continuous probability
Paper V	distributions with real life situations.
(Probability	CO.2Find the various measures of random variable and probabilities using
Distributions-I)	its probability distribution.
	CO.3 understand the concept of transformation of univariate and bivariate
	continuous random variable.
B.Sc. Part -II Sem.: III	CO.1 understand the concept of Multiple Linear Regression, Multiple
Paper-VI	Correlations and Partial Correlation.
(Statistical Methods-I)	CO.2 understand the need, construction and utility of various index
	numbers.
	CO.3 understand the concepts related to national and different methods of
	estimation of national income.
B.Sc. Part -II Sem.: IV	CO.1 Know some standard continuous probability distributions with real
Paper-VII	life situations.
(Probability	CO.2 Learn and understand the relations among the different distributions.
Distributions-II)	CO.3 understand the Chi-Square, t and F distributions with their
	applications and interrelations.
B.Sc. Part -II Sem.: IV	CO.1 Know the concept and uses of time series.
Paper VIII	CO.2 understand meaning, purpose and uses of SQC, construction of
(Statistical Methods-II)	various control charts for variables and attributes.
	CO.3 Apply small and large sample tests in various situations.



PS O 5







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### **Department of Chemistry: 2023-24**

### **Programme Outcome**

B. Sc. in Chemistry Programme Students After successfully completing will have,

РО	To make students capable of studying Chemistry in academic and Industrial courses and to
1	expose the students to different processes used in Industries and their applications.
РО	Understanding and learning of nanotechnology including classification, optical properties,
2	synthesis routes, characterization techniques and applications of nanomaterials.
РО	To get the knowledge about Various spectroscopies such as UV, IR, NMR and mass
3	spectroscopy with their working and applications.
PO	To develop the ability in Student that he will predict the structure of organic compound with the
4	help of provided spectral data.
PO	To expose the students to various emerging new areas of Chemistry and apprise them-with
5	their prevalent in their future studies and their applications in various spheres of chemical
	sciences.
РО	To Understand the knowledge of various reagents and reactions used in organic synthesis.
6	

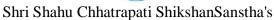
#### Programme Specific Outcomes

## After completing B.Sc. in Chemistry, Students will have

	Theoreting Bist, in Shamber J, Starting will have		
PS O 1	Chemistry graduates can work in the chemical industry either as chemists working in the plant asresearchchemist, production chemist, QAand QCofficers etc.		
PS O 2	Chemistry graduates can serve primary schools, high schools as teachers & after post-graduation canserve college or universityaslecturers, professors etc.		
PS O 3	Chemistrygraduates&post graduatescanoptforresearchworkinvariousfields.		
PS O 4	Chemistrygraduatescanoptforsupportservicessuchaslabtechnicians, stockroomman agers, safetyofficersetc.		
	agers, saiet your cerseic.		

Chemistry graduates can work as assistant for doctors, dentists, veterinarian setc.









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### **Course Outcomes**

After successfully completing this B. Sc in Chemistry course, students will be able to	
B.Sc. Part - I Sem: I InroganicChemi stry	CO.1 To understand Bohr's theory ofhydrogen atom, quantum numbers, atomicstructure, electronic configuration & andvarious properties of elements CO.2 To understand formation of ionic bond., Born-Haber cycle for NaCl & its applications, Fajan's Rule and its applications CO.3 To get idea regarding chemical bond, bond angle, geometry of molecule, shape of molecule CO.4 To get detail knowledge about more broad concept MOT involving LCAO approximation.
B.Sc. Part -I Sem: I Paper I: OrganicChemist ry	CO.1 Reading Skills: - To learnfundamentalsoforganicchemistry such as reactive intermediates, types ofreagentsandreaction mechanisms.  CO.2 Writing Skills: - To learn basic concepts of stereochemistry and to write nomenclature of stereoisomers.  CO.3 Listening Skills: - Ability to understand the criteria of aromaticity and properties of aromatic compounds.  CO. 4 To get knowledge of formation of cycloalkanes, cycloalkenes and alkadienes and their characteristic reaction.
B.Sc. Part -I Sem: II Paper III (Physical Chemistry)	CO.1 To understand basic concepts of thermodynamics and thermos-chemistry, calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data.  CO.2 To get idea about free energy change in a chemical reaction and relationships between Kp, Kc and Kx for reactions involving ideal gases.  CO.3 To understand kinetic theory of gases, deviation of real gases from ideal behavior, causes of deviation and Van der Waals equation of state for real gases.  CO.4 To understand basic concepts of chemical kinetics: rate of reaction, order of reaction, calculation of rate constant etc.
B.Sc. Part -I Sem: II Paper IV (Analytical Chemistry)	CO.1 To understand methods of analysis and terms: errors, types of errors, accuracy, Significant figures, mean, median, standard deviation. CO.2 To understand basic principle of chromatography and methodology, applications of Paper and Thin Layer chromatography. CO.3 To understand theory of titrimetric Analysis and theory of use of indicators. CO.4 To understand physical and chemical analysis of water learn basic programming constructs. CO.5 To get knowledge about types and qualities of fertilizers, their sampling and estimation of N,P,K.







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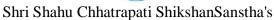
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Prin. Dr. R. K. Shanediwan - M.A. B.Ed. Ph.D.NET (Marathi) B.J.

Prin. Dr. R. R. Shane	<b>diwan</b> - M.A. B.Ed. Ph.D.NET (Marathi) B.J. Phone : (O) (0231) 2644204, (M) 9960995853
	CO.1 To understand conformational isomerism, representation of conformers and
B.Sc. Part -II	conformational analysis of ethane and n-butane, cyclohexane and mono substituted
Sem: III	cyclohexane.
Paper V	CO.2 To get idea about Stereo selective and stereospecific reactions.
-	CO.3 To understand the concept of polynuclear hydrocarbons.
Organic	
Chemistry	CO.4 To should understand synthesis, properties and reactions of naphthalene, anthracene
	and phenanthrene.
	CO.5 To understand the concept of heterocyclic compounds and their classification.
	CO.6 understand synthesis, properties and reactions of Pyrrole, Pyridine, Quinoline and
	Indole.
	CO.7 Ability to give statement, general reaction, important features, mechanism and two
	Synthetic applications of concerned name reactions.
	CO.8 To get idea about concept of green chemistry, it's twelve principles and green
	approach towards chemical synthesis.
	CO.1 To understand methods of analysis and terms: errors, types of errors, accuracy,
B.Sc. Part -II	Significant figures, mean, median, standard deviation.
Sem: III	CO.2 To understand the basic theory behind gravimetry.
Paper VI	CO.3 To learn theoretical principles involved in qualitative analysis and applications of
Analytical	solubility product, common ion effect, complex formation, application of oxidation
Chemistry	and reduction in separation of cations and anions of different groups.
	CO.4 To understand theory behind conductometric titrations and detection of end point of
	titration.
	CO.5 To get knowledge about types and qualities of fertilizers, their sampling and
	estimation of N, P, K.
	CO1. To understand the terms Specific, equivalent and molar conductance, equivalent
B.Sc. Part -II	conductance and Debye-Huckel theory of conductance, Hittorf's rule, Kohlrausch's law
Sem: IV	and its applications.
Paper VII	and its applications.
Physical	CO.2 Ability to solve numerical problems based on Kohlrausch's law, Hittorf's rule etc.
Chemistry	CO.3 To understand the concept of entropy, Physical significance of entropy, entropy
Chemstry	changes in different transitions.
	CO.4 Ability to solve numerical problems based on entropy.
	CO.5 To understand Theories of reaction rate and methods to determine order of reaction
	& ability to solve numerical problems based on order of reaction.
	CO.6 To understand the terms surface index, viscosity, refractive index and able to solve
	numerical problems based on viscosity, refractive index.
	CO.1 Student can the understand properties and separation of lanthanides.
B.Sc. Part -II	CO.2 To understand formation of co-ordinate covalent bond, Werner's theory, IUPAC
Sem: IV	nomenclature of coordination compound and crystal field theory (CFT).
Paper VIII	CO.3 Student should get idea about ligands, chelating agent, chelation, metal chelate and
Inorganic	metal complex.
Chemistry	CO.4 To understand types, Characteristics and mechanism of catalytic reactions and also
Chemistry	Industrial application of catalysts
	i i i i i i i i i i i i i i i i i i i
	CO.5 To understand definition and properties of Non-aqueous solvents.









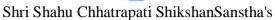
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Fill. Di. N. N. Silaneulwan - M.A. B.Ed. Ph.D.NET (Marathi) B.J. Phone : (0) (0231) 2044204, (M) 9900995853	
B.Sc. Part -III Sem: V	CO.1 To understand basic concept of Quantum Mechanics
	CO.2 To enable to student to able to know types of electromagnetic radiations, rotational and vibrational spectra of diatomic molecules.
Paper XI Physical	CO.3 To understand Raman spectra and able to solve Numerical problems.
Chemistry	CO.4 Learning and understanding photochemical laws, reactions and various photochemical phenomena & difference between thermal and photochemical processes.
	CO.5 Learning the various types of solutions, relations vapour pressure, temperature relations
	CO.6 understanding the knowledge of emf measurements, types of electrodes, different types of cells, various applications of EMF measurements.
B.Sc. Part -III	CO.1 To study of role of acids and bases in Chemistry & the study of non –aqueous solvents.
Sem: V Paper IX Inorganic Chemistry	CO.2 To learn all chemical properties of solutes and from the research point of view.
	CO.3 To understand geometry, stability and nature of bonding between metal ion and ligand in complexes.
	CO.4 To understand synthesis and the applications of the semiconductors and Superconductors in electrical and electronic devices
	CO.5 To understand types, mechanism and applications of catalyst in industrial fields.
B.Sc. Part -III	CO.1 Understanding of energy associated with electromagnetic radiation and its use in analytical technique.
Sem: V Paper X Organic Chemistry	CO.2 Student should Knowledge of chromophore, auxochrome and calculation of λmax.
	CO. Develop the knowledge of vibrational transitions, regions of IR spectrum, functional group recognition. marketing regarding modern competitive world.
	CO.4 Understanding of magnetic-non- magnetic nuclei, shielding-deshielding, chemical shift, splitting pattern.
	CO.5 To get Knowledge of molecular ion, fragmentation pattern and different types of ions produced.
	CO.6 Student will predict the structure of organic compound with the help of provided spectral data.
B.Sc. Part -III Sem: V Paper XII	CO.1 Learning and understanding the techniques of gravimetric analysis
	CO.2 To understand Knowledge of instrumental analysis of alkali and alkaline earth elements.
Industrial	









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Prin. Dr. K. K. Shahe	DIWAN - M.A. B.Ed. Ph.D.NET (Marathi) B.J. Phone : (O) (0231) 2644204, (M) 9960995853
Chemistry	CO.3 Understanding, working and applications of optical methods as an analytical tool.
	CO.4 Understanding theory and applications of potentiometric titrations.
	CO.5 Understanding the basics of ion exchange and column adsorption chromatography, Quality control practices in analytical industries.
B.Sc. Part -III Sem: VI Paper XV Physical Chemistry	CO.1 Learning and understanding quantum Chemistry, Heisenberg's uncertainty principle, concept of energy operators.
	CO.2 learning of Schrodinger wave equation. Physical interpretation of the $\psi$ and $\psi$ 2.
	CO.3 understanding of different spectroscopy, E.M. spectrum, Energy level diagram, Microwave ,vibrational spectra of diatomic molecules, S.H.M., Raman spectra: Concept of polarizability.
B.Sc. Part -III Sem: VI Paper XIII Inorganic Chemistry	CO.1 Students can understand the thermodynamic and kinetic aspects of metal complexes.
	CO.2 To understand the nuclear reactions is highlighted. Role of radio isotopes in medicinal, industrial area.
	CO.3 To understand characteristics, properties and separation of lanthanides and Actinides.
	CO.3 Student can enable to write Nomenclature of trans uranic elements.
	CO.4 Understanding of techniques which involve in ore dressing and extraction of cast iron from its ore.
	CO.5 To get knowledge about trace elements in biological Process &role of various metals and non-metals.
B.Sc. Part -III Sem: VI Paper XIV Organic Chemistry	CO.1 Student can under-stood Knowledge of reagents used in organic
	transformations and various reactions used in organic synthesis.
	CO.2 Student will learn addition reaction across >C=C <bond &="" -c="C-bond" acid,="" across="" addition="" and="" etc<="" halogen="" halogen,="" hydration,="" hydrohalogenation,="" hydroxylation,="" of="" ozonolysis="" th="" w.r.t.="" water,=""></bond>
	CO.3 To get Knowledge of terpenoids and alkaloids w.r.t. occurrence, isolation, characteristics &classification.
	CO.4 To understand the analytical and synthetic evidences of Citral and Nicotine.
	CO.5 Understanding classification of drugs, Qualities of ideal drug.
	CO.6 Understanding of synthesis and uses of some representative drugs and Drug action of sulpha drugs.





### Shri Shahu Chhatrapati ShikshanSanstha's



### SHRI SHAHAJI CHHATRAPATI MAHAVIDYALAYA

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<b>B.Sc. Part -III</b>
Sem: VI
Paper XVI
Analytical
Chemistry

CO1. Learning and understanding the techniques of gravimetric analysis.

CO.2 To get knowledge of instrumental analysis of alkali and alkaline earth elements.

CO.3 Understanding, working and applications of

optical methods as an analytical tool.

CO.3 Understanding theory and applications of potentiometric titrations.

CO.4 Understanding the basics of Chromatography.

CO.5 Understanding of types of ion exchange and column adsorption chromatography.



