

// Anant Amuchi Dheyasakti I Anant An Asha // Shri Datta Shikshan Prasarak Mandal, Panutre's

Vitthalrao Patil Mahavidyalaya, (Arts, Commerce & Science) Kale

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Secretary Sou. Alaka Vitthal Patil

Ref. No.

Date:

2.6 Student Performance and Learning Outcomes

2.6.1 Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

List of Document

Sr. No	Particular
1	Programme and course outcomes
2	Programmes Outcome(PO)Level of Attainment
3	Overall Performance of all Programmes
4	Level of Attainment: 2017-2018 to 2021-2022



Vitthalrao Patil Mahavidyalaya, Kale (Arts, Commerce & Science) Tal. Panhala, Dist. Holhapur



culty of Arts epartment of Marathi

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

rogramme		. (Course: Marathi)	
		A Gran appletion of the Programme, the students will be	
	Davidon in	terest in Marathi language and Marathi literature.	
01	Tall and delicate of Additional and		
02	The state of the s		
03	the state of the s		
104 VA E	Understan	d the different movements in Marathi literature.	
(U)	n in C	Intermes: After completion of the 110g.	
PSO1	Incoleate	love for mother tongoe was	
	Developi	he skills of language learning.	
PSO2			
PSO3		The Life Life of Isponiage Such as Italistation, providence	
PSO4			
PSO5			
Course O	utcomes: At	CO1. Develop interest in Marathi language and Marathi literature.	
B.AI,		CO1. Develop interest in Marathi Language CO2. Develop ethical values & Biography Idols.	
II(Compu	alsory)	CO2. Develop ethical values & Diography CO3. Develop awareness of mother tongue i.e., Marathi.	
B.A. Par	t I Sem. I	CO1. Inculcate interest in Marathi literature. CO2. Understand the importance of Marathi language in Competiti	
and II(O		CO2. Understand the importance of withdeath	
Hara			
personal de la companya de la compan	BU Green	examinations. CO3. Get acquainted with Marathi language in media and Marathi cinema.	
		the story writing skill in indiana and	
TO A TI	(Optional)	toot the description of description of Maratin includes	
B.A.II Sem. III	3	and the development of contemporary diameter	
Sem. III	anu •	CO2 Understand poetry as a form of Marauli Incident	
ggponosononananan		a serious elements of pocuc art.	
		CON Understand the form of autobiography in Maratin includer.	
В.А.П	(Optional)	the chill of writing autobiography.	
Sem. IV	and VI	4 . 2 C	
ananonini		The state of the s	
1	III(Special)	1	
Sem. V	and VI	the state of crossive willing in the state of the state o	
Paper '	VII and XII		
		CO3. Understand the general coal CO4. Learn the different aspects of Marathi language. CO4. Understand the phonology and semantics of Marathi language.	
B.A.	III(Special) CO1. Understand the phonology and semantic language and its dialects.	
	V and VI	CO2 Familiarize with standard Maraun language the	
Paper		the state of the s	
XIII	3	4 A Maralini Mily Mily Card A Maralini Mily Mily Card A Maralini Mily Mily Card A Maralini Mily Mily Mily Mily Mily Mily Mily Mil	
	III(Special	col Study the Marathi language and meradae of the	
B.A.	V and VI		
	v and vi · IX and XIV	CO3 Understand the compositions of Maraum Wiles	
976		CO4. Learn ballad form in Marathi literature.	



	CO3. Familiarize with the language used in different media forms.
B.A. III(Special) Sem. V and VI Paper XI and XVI	With the Medieval trends of Maratia includes

VI VIM		
B.A. (Course: Hindi) nes: After completion of the Programme, the students will be able to be received.		
and the importance of Hindi language.		
Understand the importance of Final language in National Integration.		
Understand the importance of Hindi language in Pressure in current context. Learn the application of Hindi language and its relevance in current context. Learn the application of Hindi language makes available in various sectors.		
Learn the application of Hindi language and its relevance in entremediate in various sectors. Understand the opportunities of jobs Hindi language makes available in various sectors.		
and the opportunities of jobs Hindi language masses. and the literature written in Hindi and importance in National Integration. and the literature written in Hindi and importance in National Integration.		
and the literature written in Hindi and importance in Nadonal Integral and the literature written in Hindi and importance in Nadonal Integral and the Court of the Programme, the students will be able to:		
A THE PERSON OF		
the difference in various forms of literature.		
he difference in various fermional and national values.		
op through literary works moral and national values.		
T TARREST CONTRACTOR OF THE STATE OF THE STA		
After completion of the course, the student was an day-to-day contexts.		
After completion of the course, the students CO1. Understand the use of Hindi language in day-to-day contexts. CO2. Develop the skill of writing correspondence in Hindi language. CO3. Learn the translation into Hindi language.		
I CO1.Understand the modern Hindi literature in the genre of poetry and prose. CO2. Understand the relevance of Hindi literature in the current context. CO3. Know the contribution of Hindi writers in developing National Integritation among the citizens.		
D CO1. Understand the modern forms of literature. CO2. Know the opportunities of jobs in various sectors. CO2. Know the opportunities of jobs in various sectors.		
CO1. Understand the contribution of Finite poets in Modern Hindi Poetry. CO2. Understand the varied themes handled in the Modern Hindi Poetry. CO3. Inculcate the moral and national values.		
CO1. Acquaint with the Hindi diamans recommendation of the Hindi literature. 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.		
an COI Understand the creative process.		
and the different genres of literature.		
and CO3 Learn the different critical perspectives and their approach		
The state of the s		
- I I I I I I I I I I I I I I I I I I I		
Modern Period.		
the works of Hindi writers.		
IV CO2. Develop interest in the works of Fines. CO3. Understand the historical, social and cultural dimensions of I		
literature. ial) CO1. Understand the importance of Hindi in Communication and Inform		
cial) CO1. Understand the importance of fined in		
Tmicrian		
CO2. Understand the use of Hindi in day-to-day context. CO3. Develop the communication skill in Hindi language.		
the COL Understand the origin and development of Hindi language.		
211111 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
CO2. Understand the grammar of the Hindi language.		
The state of the s		

CON F. with the interestion of Hindi language



Department of English

∧e p	partment	of English	F-wlich)
ro	gramme	Name: B.A.	. (Course: English) : After completion of the Programme, the students will be able to: - After completion of literary and cultural texts from different perspectives.
,	ogramm	e Outcomes	After completion of the Programme, the After completion of the Programme, and cultural texts from different perspectives.
PO	11	Perform and	: After completion of the Programme, the students alysis and criticism of literary and cultural texts from different perspectives. alysis and criticism of literary and cultural texts from different perspectives. ytically in a variety of formats including essays, reflective writing and critical
Tax to a seriously in a Variety Of Locality			aringly in a Valicit VI IVIII
E-	/ ***	reviews of t	primary sources.
PO	53	Understand	the process of communicating and interpreting fundamental the process of communicating and interpreting fundamental than the process of communication and
-		literary rep	sh effectively in formal and informal situations.
ucequared side (04	Abla to 0	get the JOBS III Industry, Borons
P	O5	Able to a	e to appear for competitive examinations.
13	-2.231	Specific (e to appear for competitive examinations. Outcomes: After completion of the Programme, the students will be able to: Outcomes: forms of literature like prose, poetry, drama and fiction.
		le Speem	Outcomes: After completion of the Frogrammes and fiction. end various forms of literature like prose, poetry, drama and fiction.
1	<u>'SO1</u>	Develop	the knowledge of grammatical system of English language. The knowledge of grammatical system of English language. The knowledge of grammatical system of English language.
	² SO2	Develop	the knowledge of grammatical system of English range and Writing(LSRW). the four language skills: Listening, Speaking, Reading and Writing(LSRW).
	PSO3	Develop.	the four language skills: Listening, Speaking, Reading and Journalism, f employability and entrepreneurship in the field of Media and Journalism,
P	PSO4		The state of the s
F	PSO5	Write and	alytically in different formats fixe essays fter completion of the course, the student will be able to:
1	Course O		CO1. Acquaint with communication skills.
1	B.AI,	Sem. I	CO1. Acquaint with communication CO2. Inculcate human values through poems and prose.
7	∐(Comp	ulsory)	and the second s
			CO3. Improve the language competence. CO1. Acquaint with translated Modern Indian literature in English.
		rt I Sem. I	CO1. Acquaint with translated Modern Indian interactive in Section 201. CO2. Understand short story as a form of literature with reference to the text
)ptional)	CO2. Understand short story as a some
	A.R		prescribed.
			CO3. Develop literary competence.
	В.А.П		CO1. Able to write an official report.
- 8	(Compu	alsory)	coo Understand the format of official fetters.
-	Sem. III	I and IV	CO3. Acquaint with communication skills.
. 1	Jun -		CO4. Develop writing skills.
	13 A 11	(Optional -	CO1. To understandthe nature of film as an art form.
	Literati	week.	CO1. To understandthe nature of film as an art form. CO2. To explore ways in which film as art and literature influence each other.
7		a) Sem. III	I CO3. To expand existing textual analytical same
	and V		
	anu ,		CO4. To understand different perspectives on that acaptain among the students.
	- S A II	(Optional	CO4. To understand different perspectives of interpretation among the students. - CO1. To create an awareness of the partition scenario among the students.
	B.A.II Partiti		
	The state of the s		and The deborate on the impact of partition
	Literat		
	IV and	NAME OF TAXABLE PARTY O	CO1. Understand the interview techniques.
6	B.A. I		CO2 Improve writing skill.
	(Com	pulsory)	CO2. Improve with official letter writings. CO3. Acquaint with official letter writings. CO4. Acquaint with the journalistic use of English language.
			AND RESIDENCE OF THE PROPERTY



B.A. III (Introduction to Literary Criticism)	CO1. Understand the major trends in literary criticism. CO2. Familiarize with the major critical concepts. CO3. Understand the original contributions to literary criticism. CO4. Understand the various literary movements. CO5. Acquire the skill of writing critical appreciation of poetry.
B.A. III (English Poetry)	CO1. Become curious readers of 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 (English Drama)	CO1. Understand the form of the drama. CO2. Understand the structure of drama. CO3. Familiarize with the types of drama.
B,A. III (English Novel)	CO1. Familiarize with the novel as a literary form. CO2. Acquaint with various types of novels. CO3. Familiarize with the language of the novel.
B.A. III (Language and Linguistics)	CO1.UnderstandSpeech mechanism and basic sounds in a control of the control of th

Department of Sociology

ерагинен		(Carrier Springer)	
COLORED CONTROL DE CON		to a station of the Programme, the students were a second	
	Marine Ma	4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
PO2	Contribute subject knowledge to nurture cleanvily, research Get acquainted with basic and advanced theoretical as well as methodological knowledge		
	Casalalam for applications		
	T obox	y society social life and social interaction.	
	A WARRANT TO THE PROPERTY OF T		
Decorramme		the sent of the Proprietting the students the	
	Daveloni	he sociological knowledge and skills that will enable them to think critically and	
PSO1		t 1 easiety and social ISSUES.	
_	1111017-111111	nd social structures, social institutions, cultural practices and multiple axes of	
PSO2	Understat	ad social structures, social	
	difference	and inequality. their qualitative and quantitative analytical skills.	
PSO3	Enhance	heir quantative and quantitutive unity to	
PSO4	Learn ab	out institutions, folkways, mores, culture, social control, social inequality, society	
A. 40.40. 2	and cultu	re of India.	
PSO5	Tain ment	escional careers in sociology and allied fields.	
		a postation of the course, the student will be able to:	
DA Dans	I Sem I	CO1. Define sociology and demonstrate nature, scope and subject matter of	
and H(Opt		CO2. Demonstrate how sociology differ from and similar to other social	
Introducti		asianase and their areas of interdependence.	
Sociology	and	Acquaint themselves with the basic concepts of sociology like society	
Applied	to	resociation culture, social change, social stratification etc.	
Sociology		CO4. Know the basic social institution like family, marriage, kinship in	
*			
		cO1.Understand the Conceptsof Socio Economic Issues.	
	Optional)	CO2. Learn about Socio-Cultural and legal issues in Indian society.	
Sem. III a		CO3. Understand Concepts of Social and Peasant movements.	
	ssues in	CO3. Understand Concepts of Social and Teasant in Concepts of Social and Teasant in Concepts of Social and Tribal movements.	
India an		CO4. Learn and understand about Dant and Those inc.	
movement		CO1. Understand the concepts of gender and violence.	
	Optional)	acce the demostic violence against women.	
Sem. III a		CO2. Understand domestic violence against violence agains	
Gender	and	CO3. Introduction to sociology of health and treatment of the cost	
Violence	and		
Sociology	of Health	CO1. Define sociological theory, understand its features and describe a	
B.A. III		the role of theory in building sociological knowledge.	
(Special)			
Western & Indian		CO2. Know the contribution of rounding	
Sociological		sociology as an academic discipline.	
Thinkers		CO3. Know the contributions of Western & Indian Sociologist.	
B.A. III		CO1. Understand the meaning, scope, types and significance of social research	
(Special)	1	CO2. Understand what a sampling method is and how it is useful in so	
	of Socia	research.	
Research		CO3. Learn to collect, analyze data and how to write a research report.	
	Special)	CO1. Understand the major concepts, theoretical approaches andperspective	



Sociology&Social Anthropology	CO2. To provide the conceptual understanding about anthropology CO3. To understand the social aspects of tribal's in India.
B.A. III(Special) Human Rights & Rural Sociology	CO1. Understand the nature & role of human rights in human CO2. Contribute to the resolution of human rights issues and problems. 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
B.A. III(Special) Sociology of Religion & Urban Sociology	CO1.Understand the development of knowledge in the field of Sociology of Religion CO2. Different theories, approaches and concepts that make up the study of religion. CO3. Understand the significance of the city and the process of urbanization. CO4. Know about urban processes such as migration, displacement and urban slums etc.

Department of History and S.T.D.

epartmen	nt of History and S.T.D e Name: B.A. (Course:	History)
rogramm	Outcomes: After col	mpletion of the Programme, the students will be able to: the various subjects which belong to humanities & languages science
	Possess knowledge of	the various subjects which belong to humanities & languages science.
PO1	Do competent with the	the various subjects which belong to humanitees e qualities required for becoming cultured and ideal citizens of findia. e qualities required for becoming cultured and ideal citizens of findia.
PO2	De competent enough	to face the competitive world and grab jobs at significant posts.
PO3	De composers	to face the competitive world and getting the shoulder all foundation of human values that will make them shoulder
PO4	Possess a orong, re-	it has of browledge
	Social responsioners	ence in written and oral communication in all branches of knowledge.
PO5	Demonstrate compet	After completion of the Programme, the students will be able to:
Program	me Specific Outcomes.	After completion of the Programme, the states anding of the historical framework for the development of Indian and heales round of our Nation.
PSO1	Acquire an underst	derstand background of our Nation. depth study in aspects of Ancient, Medieval and Modern to
	There is a more if	depth study in aspects of Ancient, Medievan
PSO2	Contamparary Histo	Dry.
	Concemporary rust	ory. sent existing social, political, religious and economic conditions of the
PSO3	Understand the pre-	art, dat graphs
	Indian people.	kills helpful in the study and understanding of historical events.
PSO4	Develop practical s	letion of the course, the student will be able to:
Course	Outcomes: After comp	O1: Understand the history of the Rise of Maratha Power. CO2: Acquaint the students with the sacrifices made by Maratha
		to 1707. CO4: Understand the political, socio-economic and religious life of the people during the period from 1600-1707. CO1: Understand the beginnings and growth of nationalist
Paper	III: History of Maharashtra	CO1: Understand the consciousness in Maharashtra. CO2: Explain the contribution of Maharashtra to the national movement CO3: Acquaint himself with the contribution of eminent leaders of
(1900	to 1960) and IV	Maharashtra is transformation of Maharashtra
Paper	IV: History of M m Maharashtra(1960-	CO4: Know about the economic transformation
moder 2000)	В минителители	CO1: Acquaint with significant events leading to establishment of the
RAI	I (Optional) Sem. III:	CO1: Acquaint with significant events
Dane	r IV: History of India	rule of East India Company. CO2: Understand the structural changes initiated by colonial rule i
(1757	-1857) and IV Paper	Indian economy.
VI:	History of Freedom	Indian economy. CO3: Understand the events which lead to the growth of nationalism
Stru	ggle (1857-1947)	India.
	111.	India. CO1: Understand the salient features of prominent socio-religio
B.A.	II (III)	
Pap	orms in India and	CO2: Explain the thought and work of Managers
Ref	Paper II: Socia	
IV:	forms in	CO3: Understand the contribution of women
Ma	harashtra	r CO1:Understand the transition of humans in Indiafrom Hunters
D A	III (Special): Pape	r CO1:Understand the transition
No	VIII: Early India an	a l'admitte de la transition from Early to Later veuic period.
Con	nester VI: Paper Po	No. CO2: Explain the dansidor Vardhamana Mahavira. Vardhamana Mahavira.
· XII	· Ancient India (From	CO3-Describe the rise and growth of the Mauryan Empire
4th	e. BC to 7th c. AD)	A for a small sting the course



Semester V: Paper No. VIII: History of Medieval India (1206-1526 AD), Semester VI: Paper No. XIII: History of Medieval India (1526-1707 AD) B.A. III (Special): Semester V: Paper No. IX Age of Revolutions; Semester VI: Paper No.	CO1:Describe the different types of historical sources available for writing the history of medieval India CO2:Explain the contributions of medieval rulers. CO3:Know about the various sources for writing Medieval Indian history CO4: Explain the role of rulers like Babar, Akbar, Chandbibi and Ibrahim Adilshah II. CO1:Explain the causes and consequences of the Reformation CO2:Give an account of the role played by Martin Luther CO3:Explain the salient features of the Industrial revolution, American and French Revolution. CO4:Know the causes and consequences of the Glorious revolution in
Modern World (16 th to 19 th Century)	England CO5:Explain the concept of Nationalism, unification of Italy and Germanyand impact of Imperialism. CO1:Describe the political conditions of the Marathas up to the
B.A. III(Special): Sem. V: Paper No.: X Political History of the Marathas; Sem. VI: Paper No.: XV Polity, Economy and Society under the	year1740 CO2: Explain the role of Balaji Bajirao, the causes and effects of the Battle of Panipat. CO3:Know the various sources for writing the history of the Marathas CO4:Explain the significant developments in the polity of the Marathas.
Marathas B.A. III(Special): Sem. VI: Paper No.: XI History: Its Theory; Semester VI: Paper No.: XVI Methods and Applications of History	CO2:Explain the process of presenting and consequences CO3:Understand the nature of archival sources CO4:Gain conceptual clarity about recent trends in history.



Department of Political Science

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

Programme (Dutcomes	s: After completion of the Programme, the students will be able to:		
Management of the control of the con	The second secon	4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
non E	Enhance innovative approach of the student towards profession in Fontical Science.			
	The state of the s			
		the sitison will informed in fundamental rights and obligations we will		
PO4 B	ecome a	Outcomes: After completion of the Programme, the students will be able to:		
*	The second of the second	ition of government machinery distributions.		
	_earn org	iveness in translating the government philosophy into programme.		
PSO2	jet ellect	the concepts and dimensions of international politics.		
PSO3	Deal with	the concepts and dimensions of internation of America		
PSO4	Understar	nd the constitutional and legal provision of America.		
PSO5	Understar	and the continuity and change within the western political traditions.		
Course Oute	omes: Af	fter completion of the course, the student will be able to:		
B.A. Part I		COL Understand the key concept of Fortidear between		
Sem. I	and	CO2. Understand Indian Constitution.		
∐(Optional)		CO3. Learn the Philosophy of Indian Constitution.		
B.A.II (O	ptional)	CO1. Understand basic concept of Political Science and state theory.		
Sem. III and	IV	CO2. Acquaint with ancient Indian Political Thoughts.		
		CO3. Understands in to theories of origin state.		
B.A.II (O	ptional)	CO1. Get the knowledge Indian Political process and federal system.		
Sem. III and		CO2. Understand political, social movements in India.		
		CO3. Explain political classical traditional thoughts in India.		
B.A. III	000000000000000000000000000000000000000	CO1. Understand modern political concepts, unitary		
(Special)		Government System.		
		CO2. Understand in election representation.		
		CO2. Understand in election representations CO3.Get comprehensive idea of contemporary scenario in Political Science.		
B.A. III		CO1 Understand public, personal, financial administration.		
(Special)		CO2 Provide knowledge about theories advocated.		
\		CO2 Give emphasis on Administrative Thinkers.		
B.A. III		CO1. Understand the main theories of International Politics.		
(Special)		CO1. Understand the main deores of international, National, regional Organization.		
		CO2. Understand the working of international political situation are		
		foreign policy.		
B.A. III		CO1. Understand the constitution of America, China and Sweden.		
(Special)		CO2. Explain the constitutional and legal provision.		
		CO2. Explain the constitutional and regal provided CO3. Understand the differences and similarities between the various		
		constitutional arrangements.		
B.A. III		CO1. Understand the western classical tradition from Plato to Montesquieu.		
(Special)		CO2. Study historical aspects of western states and society.		
(Special)		CO2. Study historical aspects of western views from Hegel, Karl Marx and Lenin.		

Department of Economics

ProgrammeName: B.A. (Course:Economics)

Programi	ne Outcom	es: After completion of the Programme, the students will be able to:	
PO1	Develop economic leadership.		
PO2	Increase economic literacy.		
PO3	Get the skills required to respond to and analyze the global business and economic issues		
PO4	Get information of monetary policy, fiscal policy, international policy, product pricing a factor pricing.		
PO5	Acquire i	nformation about past and present economic trends.	
Program	ma Canaifia	Outcomes: After completion of the Programme, the students will be able to:	
PSO1	T In Asserts	and basic concents of micro economics and macroeconomics.	
PSO2	Create st	tudents' ability to suggest solutions for various economic problems.	
PSO3	Amoleona	past and present events from an economic perspective.	
DCO4	Create s	warenessof economic activity in Indian and world economy.	
Course ()utcomes: A	After completion of the course, the student will be able to:	
		COL Understand economic development since independence.	
R A Par	t I Sem. I	CO2 Understand challenges facing the Indian economy.	
and II(O		CO3.Get acquainted with the policies and performance of major sector in Indian economy.	
B.A.II	(Optional)	COL Know nature and scope of macro economics.	
Sem. III	* *	CO2 Understand concepts of national income and value of money.	
SCHI. III	and it	CO3.Understand business cycles and theories of business cycles	
		Understand general theory.	
B.A.II (Optional) Sem. III and IV		CO1. Get information about commercial banking and credit creation. CO2. Know practical banking and understand functions of RBI and Monetar policy. CO3. Know E-banking and its importance.	
B.A. III		CO1.Understand consumer decision making and consumer behavior.	
		CO2 Understand the nature of revenue and cost of production.	
(Special)	CO3. Identify the market structure. Principle of micro economics.	
B.A. III		CO1. Identify the dimensions of development and know the theories of econom	
(Special)	development. CO2. Get acquainted with economic planning and its Importance development. CO3. Understand Economic Planning in India.	
13 4 111		CO1. Explain International trade and international trade theories.	
B.A. III		CO2. Understand the measurement of gains from international trade.	
(Specia	1)	CO3. Distinguish between balance of trade and balance of payments.	
B.A. III		CO1. Get acquainted with the basic concepts of research and its methodologies	
(Special)		CO2. Understand the sampling techniques as a method of data collection	
		CO3 Write a research report and thesis.	
B.A. III	ľ	CO1. Understand the basic economic ideas of various economic thikers of t	
		world.	
(Specia	1)	CO2. Understand the development of economic thoughts	
		COZ. Circionino in de competencia de la competencia del competencia de la competencia de la competencia de la competencia del competencia	

Faculty of Commerce

Programme: B.Com.

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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 Ontomes writer 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)

Bequenning Specific Contenues & Brasening almost alicitizaciónne, die surione collibrables os

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)

Progressing Specific Concounts: After completion of the Progressing, the singularity 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 Ontonness with completion of the Programme die studients 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.

B. Com. I, Sem. I and II (CBCS)

3. Com. I, Sem. I and	Call a newscon the actual Will incall the will
Course Outcomes: A. Micro Economics Paper I and II(Core Course)	CO.1) Learn the concepts of micro economics dealing with consumer behaviour. CO.2) Understand the supply side of the market through production and cost
Financial Accounting Paper I and II (Core Course)	CO.3) Apply tools of consumer behaviour and firm theory to business situation. CO.1) Learn basic accounting concepts, conventions, process and concept of IFRS. CO.2) Know the procedure of conversion of Partnership firm in to limited
	company. CO.3) Understand the Accounting of Professionals, accounting of Consistence and computerized accounting with accounting software Tally.
Management Principles and Applications Paper I	CO.1) Learn basic management concepts, principles and practices. CO.2) Get acquainted with basic management functions. CO.3) To understand emerging issues in Management.

Insurance Paper I and II (Generic Elective Course)	CO.1) Get the basic knowledge of principles and practice of the same and sile insurance. CO.2) Know the fundamentals of general insurance covering fire, marine and other forms. CO.3) Understand IRDA act and understand general business in India.
Principles of Marketing Paper I and II(Generic Elective Course)	CO.1Learn the concepts, principles, tools and techniques of marketing. CO.2) Understand the knowledge of 4P's of marketing and retailing.
English for Business Communication Paper I and II(Ability Enhancement Compulsory Course)	CO.1) Learn communication skills with specific focus on business correspondence and telephonic communication. CO.2) Inculcate human values through poems and prose. CO.3) Improve the language and business competence.

B. Com. II Sem. III and IV(CBCS)

3. Com. II Sem. III and	1 11 - of the course the similar of the abit of
Course Outcomes: Alt Corporate Accounting Paper I and II	CO.1) Learn the meaning and types of Companies, CO.2) Demonstrate accounting for issue of debentures and redemption of debentures. Simulate practice of preparing financial statements as per the provisions of Indian Companies Act 2013. CO.3) Compute the value of shares as per distinct methods and differentiate between them, Simulate practice of accounting for liquidation of companies. CO.4) Practice the fundamental accounting process on Tally ERP. Practice
Fundamentals of Entrepreneurship Paper I and II	CO.1) Get theoretical knowledge of Entrepreneurship, quantics and Co.2) Understand Recent Trends and Concepts in Entrepreneurship CO.3)Learn Business Planand Project Report
Money & Financial System Paper I and II	CO.4) Get inspiration to decembe successive and measurement of money supply. CO.1) Learn functions of money and measurement of money supply. CO.2) Understand the nature of banking business and business Practices. CO.3) Understand the important recent trends in banking system, e-banking services. CO.4) Understand the business practices of NBFCs and AIFI to infuse ability to explain monetary system in India. CO.1)Explain the scope of statistics in business, perform classification and control of the scope of statistics in business, perform classification and control of the scope of statistics in business, perform classification and control of the scope of statistics in business.
Business Statistics Paper I and II	tabulation, and represent the data by means of simple diagrams and government of control tendency and dispersion. CO.3) Compute unconditional and conditional probabilities and apply law of probabilities.
Business Economics Paper III and IV	CO.1) Learn the macro variables and components of macro economics CO.2) Understand changing value of money and its impacts on economy

	determination of rate exchange
English for Business Communication Paper III and IV	CO.1) Develop communication skills in English, both oral and written. CO.2) Equip the students with the language skills for use in their personal, academic and professional lives CO.3) Show the active involvement in learning process. CO.4) Cultivate a broad, human and cultured outlook.
Environmental Studies (EVS)	The Control of the Co

	CO.3) Oliderstand the imperson	
B. Com. III, Sem. V and VI (CBCS)		
	Lation of the course, the sindent will be able to	
Modern Management Practices Paper I and II	CO.1) Familiar with the modern management practices comporate world. CO.2) Understand the importance and applicability of various Modern management practices. CO.3) Understand concepts of CRM. CO.4)Understand the importance and applicability of various modern management practices.	
Business Regulatory Framework Paper I and II	CO.1) Get legal awareness. CO.2) Understand various Laws and Acts which have impact on business and industry. CO.3) Understand lawsrelating to Corporate Business Entities. CO.4) Understand SEBI act 1992. CO.5) Understand Business Transactions and Cyber security.	
Business Environment Paper I and II CO.1) Understand the basic of CO.2) Learn the scenario of CO.3) Understand concept L	CO.1) Understand the basic concepts of Business Environment. CO.2) Learn the scenario of agricultural and industrial sectors. CO.3) Understand concept LPG, Economic Planning and Service Sector. CO.4) Understand Foreign Capital and Multinational Organisation.	
Co-operative Development Paper I and II	CO.1) Understand meaning and principles of Co-operation. CO.2) Understand agriculture and non-agriculture credit co-operative institution. CO.3) Understand impact of Globalization on co-operative movement. CO.4) Get basic knowledge of co-operative society and administration.	
Advanced Accountancy Paper I	CO.1) Practice the preparation of financial statements of banks. CO.2) Demonstrate accounting for farms and hire purchase system. CO.3) Simulate accounting situations of insurance claim.	
Advanced Accountancy Paper II	CO.1) Gain working knowledge of generally accepted auditing procedure, techniques &Skills. CO.2) Understand special features of audit of Co-operative organization. CO.3) Understand procedure of appointment of Auditor.	

Faculty of Science

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

Clogiania		Call a Programme, the students will be able to		
Programm	e Outcomes: After	completion of the Programme, the students will be the to		
PO. 1	Develop skill in	arration work and experiment in lavoratory.		
PO. 2		facte phenomenon and their relationships.		
	Work in the field	d of research and other fields of their own interest and to make them fit for		
PO. 3	society.	1 12 to as as to understand natural phenomenon		
PO. 4	Acquire knowler	dge of plant and related subjects so as to understand natural phenomenon for the application of the acquired knowledge to improve agriculture and		
PO. 5	Develop ability	for the application of the acquired anothers		
ru. 5	other related ner	lds. nes: After completion of the Programme, the students will be able to:		
Programn	ae Specific Outcom	les: After Complexion		
PSO. 1	Obtain strong 10	oundation in classical botany. in Horticulture, Greenhouse management, Production of cut flowers and		
PSO. 2	Build capacity	in Horticulture, Orcelliouse affored		
	loose flowers in	rom the elective courses offered. s in Edible mushroom cultivation, Bio fertilizer production, Greenhouse		
PSO. 3	Build life skills	s in Edible mushroom cultivation, and courses,		
A har too a	maintenance an	od Seed technology through value-added courses. iological resources by designing optimization, preparation and analysis of		
PSO. 4	Scale up the big	iological resources by designing optimization per		
	products required for Society.			
PSO .5		1.1 - A (managed) IN BOURTY.		
Course C	utcomes: After cor			
n Ca Par	t I Sem. I Paper	(1) I learn about the Discovery, B		
B.Sc. 1010	DIVERSITY OF			
No. IDIO	BES, ALGAE	CO 2 Understand about the Discovery, general calaboration		
MICKO	MED, ALMANA			
AND FU	NGI	CO 2 V now about importance of morphological structure,		
44	* 12-2-2	CO 1 Explain about structure, classification, reproduction, ine cycle		
B.Sc. Part I Sem. I Paper No. IIBIODIVERSITY OF				
		economic importance of Bryophytes. CO.2.Learn structure, classification, reproduction, life cycle and		
	GONIATE-			
Bryophy		conomic importance of pteridophytes CO.3.Understand structure, classification, reproduction, life cycle ar		
Pteridop	phytes,	economic importance of Gymnosperms.		
Gymnosperms		economic importance of Cylinder		

B.Sc. Part I Sem. II Paper No. IIIPLANT ECOLOGY	CO.1.Learned about the interaction between biotic and abiotic components of theenvironment. CO.2.Know about the concept of energy flow in theecosystem. CO.3.Know about different pollutions, consequences in the environment and its mitigation.
B.Sc. Part I Sem. II Paper No. IVPLANT TAXONOMY	and its mitigation. CO.1.Know about the Identification, Nomenclature, Binomial Nomenclature, Classification. Salient features of International Code of Botanical Nomenclature (ICBN). CO.2.Know about Role and Significance. Study of Sir J. C. Bose Botanical Garden, Calcutta. Lead Botanical Garden, Shivaji University, Kolhapur. CO.3. Understand external and internal structure of plants.
B.Sc. Part II Sem. III Paper No. V Embryology of Angiosperms	CO.3. Understand external and internal structure of flower, CO.1. Students will acquire knowledge regarding Concept of flower, CO.2. Students will able to gain knowledge of mechanism of pollination and Fertilization in plants. CO.3. Student will know the structure and development of the more and Endosperm. CO.4. Student will know about the mechanism, types are rightfeants of

	Polyembryony and Apomixis
	Polyembryony and Apomixis
B.Sc. Part II Sem. III Paper No.VI	CO.1. To become knowledgeable in plant and its water that of the CO.2. Students will able to gain knowledge on role of the plant growth, their development and understand the
Land	nitrogen metabolism. CO.3.To gain knowledge about chloroplast structure, photosynthetic pigments, the path of energy from the light reactions through Calvin cycle. Students are able to understand the process of translocation of organic solutes in plants. CO.4.To acquire knowledge in plant growth regulator and its uses.
B.Sc. Part II Sem. IV Paper No. VII	CO1.To gain knowledge of plant cells, tissues and their tracelors. CO2.The students will enable to know the internal structure of stem, leaf
PLANT ANATOMY	and root in monocot anddicot. CO.3. Students familiarize in secondary growth, anomalous secondary growth in monocot and dicotstems.
	CO.4.Student able to understand the process of interesperage
	CO.5. Students able to understand endosperm and its types and know
 B.Sc. Part II Sem. IV	CO1.Know about classification, Nomenciature, structure, property
Paper No. VIII Plant	and mechanism of Enzyme. CO2.Know about Biological Nitrogen fixation and mechanism of
Metabolism	
	Nitrate reduction, Ammonia assimilation, the general of Respiration, seed CO.3Acquire the knowledge about mechanism of Respiration, seed
	i Carriedion
B.Sc. Part III Sem. V Paper	4 1 1 2 3 4 4 5 6 6 6 7 1 4 7 1 4 1 5 6 6 7 1 5 6 7 1 5 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
B.Sc. Fait III Sein. 7 rape.	CO 2 Understand the Plastid inheritance and Milochondrian inheritance.
No. IX	CO. 3. Acquire knowledge of plant breeding.
Genetics and Plant	CO. 3. Acquire knowledge of plant breeding and Methods of CO.4. Know the Aims and objectives of plant breeding and Methods of
Breeding	plant breeding. CO.1.Understand the concept Microorganisms in biological world.
B.Sc. Part III Sem. V Paper	
No. X Microbiology Plant	CO.3. Know the plant diseases their causar organisms
Pathology and Mushroom	control measure of plant disease. CO.4, To provide an adequate knowledge about importance and
Culture Technology	CO.4, To provide an adequate knowledge
	habitation of mushroom. CO.1.Acquire knowledge of ultrastructure of cell.
B.Sc. Part III Sem. V Paper	CO.1. Acquire knowledge of ultrastructure of control of chromatin CO.2. Understand the structure and chemical composition of chromatin
No. XI Cytology and Research	
Techniques in Biology	CO.3. Understand the principles and applications of interescopy
	classification of micro organisms. CO.4. Understand the ultra structure and dynamism of cell.
	A divisions of Horticulture
B.Sc. Part III Sem. V Paper	CO.1.Discuss about Importance and divisions of Post and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Importance and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and Management of Pest and CO.2.Discuss about Horticultural Produce and CO.2.Discuss about Horticultural Pr
No. XII	
Horticulture and	diseases in flowering plants. CO.3. Know the Nursery techniques and explain about plant propagation
Gardening	modhade
	e indoor cordening
B.Sc. Part III Sem. VI Pape	er CO.1. Knowthe physical, chemical properties and incurrent
No. XIII	carbohydrates
PLANT BIOCHEMISTY	
AND MOLECULAR	lipids in living system. CO.3.Knowthe physical, chemical properties and metabolism of
BIOLOGY	COMMING PRINCE



B.Sc. Part III Sem. VI Paper No. XIV Bioinformatics, Biostatistics and Economic Botany	proteins. CO.4. Knows basic knowledge of the biological importance of the biomolecules nucleic acid andenzymes. CO.1.To learn the sampling techniques, diagrammatic and graphical representation. CO.2.Knowledge about measures of central tendency and theories of probability. CO.3.Understand basics of bioinformatics and online bioinformatics tool. CO.4.To study and impart the knowledge online available biological databases.
B.Sc. Part III Sem. VI Paper No. XV Plant Biotechnology and Paleobotany	CO.1. Plant Molecular Biology focuses on exploration of molecular basis of plantlife. CO.2. Understand the function of cells at molecular level. CO.3. Understand the molecular breeding methods that are coupled with genetic engineering techniques. CO4. Know about the Structure, reproduction, life cycle, fossil fossilization and geological time scale.
B.Sc. Part III Sem. VI Paper No. XVI Bio fertilizers and Herbal Drug Technology	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



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

Department of Zoology

Progran	me Outcome-
POI	The state of the s
PO2.	To make curiosity in the students for zoology success and applied areas of Zoology. To create awareness amongst students for the basic and applied areas of Zoology.
PO3.	To orient students about the importance of abiotic and blouc factors of chynomics.
PO4.	To provide an insight to the aspects of animal diversity.
PO5.	
PO6.	To know the Animais physiology, centurist and to train them about proper handling of lab instruments.

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 Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Sericulture, Biochemistry, Fish
PSO3.	Understand the applications of Zoology in Agriculture, Medicine and daily life.
PSO4.	Gains knowledge about research methodologies, effective communication and of problem solving methods
PSO5.	Contributes the knowledge for Nation building.

B. Sc. Part - 1 Sem	CO1:	ng this course, students will be able to: Describe general taxonomic rules on animal classification.
I Paper- I Animal Diversity-I)	CO2:	Classify Protista up to phylum using examples from parasite
Directory 2)	CO3;	Describe Phylum Nematoda and give examples of pathogenic Nematodes.
B. Sc. Part - I Sem I Paper - II (Animal	COI:	Develop understanding for the fundamental concepts of physiology of digestion, blood vascular system and nervous system
Physiology)	CO2:	Eamiliarize students with renal physiology and muscle.
. 11) prove (87)	CO3:	Gain fundamental knowledge of animal physiology.
B. Sc. Part -1 Sem	COI:	The the effective and function of plasma membrane.
II Paper - III (Cell biology and	CO2:	Understand Structure, functions and interactions of cell organienes
Evolutionary	CO3:	Explain the basis of evolution and fossil formations.
Biology)	CO4:	Correlate the theories with the evidences
B. Sc. Part - I Sem		E-valoin Mandalism expanding Mendel's Laws.
H Paper – IV	CO2:	Explain sex determining systems and dosage compensation.
(Genetics)	CO3:	Describe mutation, mutagenesis and repair
(Genetics)	CO4:	Evaloin the process of gene expression and applications.
B. Sc. Part II Sem III PAPER-V	COI:	Understand the underlying principles of classification of animals like Protochordata to Mammal.

		To classify vertebrates and to be able to understand the provide group of the vertebrate observed in nature.
	CO4:	To identify poisonous nonpoisonous snakes.
Control of the Contro	CO5:	To study the digestive and respiratory system in aves.
B. Sc. Part II Sem	COI:	To simplify the concepts of Biochemistry.
III	CO2:	Define the DNA and RNA
Paper – VI	CO3:	Evolain enzyme types, classification, reactions,
Biochemistry	CO4:	Explain the metabolism of Carbohydrate, Protein and Lipid.
	COI:	Explain the male and female reproductive system and its work.
Sem. IV Paper VII Reproductive	CO2:	Understand the process of formation of male and female gametes
Biology	C.C. San	en e
Diology	CO3:	To know the different male and female reproductive related
		disorders.
Paper – VIII	CO1:	To understand Host parasite Relationship
Applied Zoology -I	CO2:	To know Epidemiology of Diseases.
Abbuen Board	CO3:	To understand about Insects of Economic Importance.
	CO4:	To gain the knowledge related to Poultry Farming.
B. Sc. Part III	COI.	Explain integumantory systems.
Semester- V Paper-	CO2.	To know the skeletal system of vertebrates.
IX DSE-E29	CO3.	To illustrate the comparative difference in vertebrates.
(Comparative Anatomy	CO4.	To understand the specific animal system difference.
Of Vertebrates)		Explain DNA structure.
Paper- X	CO1:	Explain DIVA structure.
DSE-F29 (Molecular	CO2:	Paraphrase the Central dogma of molecular biology. Illustrate the mechanism of replication, transcription and
Cell Biology and Animal	CO 3:	illustrate the meetanism
Biotechnology	22.23.4	translation. To understand the cloning techniques and vectors.
Biotecunoiogy	CO4:	To knowing the various principles of biological techniques.
	CO5:	Explain the basic methods to make genetically modified animals.
Paper- XI DSE-F30	CO1:	Explain the basic methods to make generally
(Biotechniques and	CO2:	To understand applications of Transgenic animals.
Biostatistics)	CO3:	To illustrate the classification of data.
	CO4:	To solve the measures of central tendency.
	CO5:	Describe the Dispersion and correlation.
B. Sc. Part III	CO1:	To understand the aquatic biome. Students know the biology of freshwater bodies.
Semester-VI	CO2:	Students know the blology of freshwater course.
Paper- XII DSE-F31	CO3:	Justify the endocrine disorders. To understand anatomy and histology of glands.
(Aquatic Biology	CO4:	To understand anatomy and instology of grands
and Endocrinology)	CO5.	Explain nature, role, regulation of endocrine glands.
Paper- XIII DSE-	CO 1:	Identify the developmental stages.
E30 (Developmental	CO2:	Describe the key events in early and systematic embryological
Biology Of		development. Explain the theories of preformation, and concepts like growth
Vertebrates)	CO3:	differentiation and reproduction.
	001	- Cfastilization and classes
	CO 4:	
	CO5:	
	1001	vertebrates. Explaingeneral information of immune system.
Paper- XIV DSE-	CO1:	the first term of the first te
E32 (Immunology)	CO2:	the state of antique antibody and in
	CO3:	machaniem
The Real Property From	COI:	car i de de la companida can no
Paper- XV DSE-E31 (Applied Zoology -	LI COI:	management techniques.



11)	CO2:	Students gain knowledge about various disease related vectors and their impact on human.
	CO3:	Understands concepts of apiculture, poultry, dairy along with tissue and cell culture techniques.
Paper- XVI DSE-	COI:	Identify and to study different vectors.
F32 (Insect Vectors	CO2:	Explain the various disease which occurs from vectors
and 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:	to the location structure and functions of various organs,
B.Sc. III Practical Paper I, II, III, IV	CO1:	First-hand knowledge about identification of non-chordate and chordate specimens (fresh and preserved) along with larval forms and study of endoskeleton of vertebrates.
111, 1.	CO2:	Students are able to handle microscopes, and micrometers.
	CO3:	Identification of zooplanktons and phytoplanktons.
	CO4:	Gain skill about histological slide preparation, staining and
	CO5:	Students gain skill about determination of pH and quantitative analysis of blood cells.
	CO6:	Students are able to parasites from rectal and fecal contents of animals.
	CO7:	Students are able to collect parasite and pest specimen

Program Name: B. Sc Mathematics 2020-2021

Programi	O	Commerce	
	and the second of the second o		
PO1		ic temper will be developed in Students	
PO2	Students will acquire basic Practical skills like scilab, python software & Technica knowledge along with domain knowledge of different subjects in the science stream.		
PO3	Students will become employable; they will be eligible for career opportunities in Industry or will be able to opt for entrepreneurship.		
PO4		s will possess basic subject knowledge required for higher studies, professional and courses like Management Studies, Law etc.	
PO5		s will be aware of and able to develop solution oriented approach towards various and Environmental issues	
Programi	ne Specifi	e Outcome	
PSO1		ent should be able to recall basic facts about mathematics and should be able to knowledge of conventions such as notations, terminology.	
PSO2		ent should get adequate exposure to global and local concerns that explore them spects of mathematical sciences.	
PSO3		is equipped with mathematical modeling ability, problem solving skills, creative ad power of communication necessary for various kinds of employment.	
presented verbally into mathematical form, select and use appropriate math		should be able to apply their skills and knowledge that is translate information of verbally into mathematical form, select and use appropriate mathematical e or techniques in order to process the information and draw the relevant ion	
PSO5	Enablin	g students to develop a positive attitude towards mathematics as an interesting and e subject of study.	
Course O	utCome		
B.ScI Se	m-I	By the end of course, the student will be able to:	
Paper-I		CO1. Learns definition of limit of a function of one variable.	
Mathema	tics	CO 2. Learns important properties of continuous functions	
(Differen	tial	CO 3. Learns differentiability of a function and geometrical meaning of	
Calculus-		derivative	
		CO 4. Learns to find the nth derivative of product of two functions.	
B.ScI Se	m-I	CO1. Learns exact differential equations and the mean value theorems.	
Paper-II		CO2. Learns series expansions and indeterminate forms.	
Mathema	tics	CO3. Learns Euler's theorem on homogeneous function.	
(Calculus)	CO4. Learns the Lagrange's Method of undetermined multipliers method.	
B.ScI Se	m-II	CO1. Learns exact differential equations and the condition for exactness.	
Paper-III	***	CO2. Learns differential equation of first order but not of first degree.	
Mathemat	tics	CO3. Learns to find general solution of ().	
Differenti		CO4. Learns to find general solution of ()	
Equations	-I)		
B.ScI Se		CO1. Learns homogeneous linear differential equation and method of solution.	
Paper-IV		CO2. Learns second order differential equations.	
Mathemat	tics	CO3. Learns the ordinary simultaneous differential equations.	
(Differen	tial	CO4. Learns the condition for integrability of Pdx+Qdy+Rdz=0.	
Equations	Commission of the Commission o		
B.ScII So	-	CO1.understand types of functions and how to identify them.	
Mathemat	1 -55.	CO2.use mathematical induction to prove various properties.	
Real Anal	ysis–I	CO3.understand the basic ideas of Real Analysis	

		A Commerce 8 states
	Mathematics Algebra–I	CO1. understand properties of matrices CO2. Solve System of linear homogeneous equations and linear non- homogeneous equations. CO3. Find Eigen values and Eigen vectors. CO4. Construct permutation group and relate it to other groups. CO5. Classify the various types of groups and subgroups.
1	Mathematics	CO1. Understand sequence and subsequence. CO2. Prove The Bolzano-Weierstrass Theorem. CO3. Derive Cauchy Convergence Criterion. CO4. Find convergence of series. CO5. Apply Leibnitz Test.
	B.ScII Sem-IV Mathematics Algebra–II	CO1. Prove Lagrange's theorem. CO2. Derive Fermat's theorem. CO3. Understand properties of normal subgroups, factor group. CO4. Define homomorphism and isomorphism's in group and rings. CO5. Derive basic properties of rings and subrings.
	B.ScIII Mathematics Sem-V DSE – E9 Mathematical Analysis	CO1. The integration of bounded function on a closed and bounded merval CO2. Some of the families and properties of Riemannintegrable functions CO3. The applications of the fundamental theorems of integration CO4. Extension of Riemann integral to the improper integrals when either the interval of integration is infinite or the integrand has infinite limits at a finite number of points on the interval of integration CO5. The expansion of functions in Fourier series and half range Fourier series
	B.ScIII Mathematics Sem-V DSE – E10 Abstract Algebra	CO1. Basic concepts of group and rings with examples CO2. Identify whether the given set with the compositions form Ring, Integral domain or field. CO3. Understand the difference between the concepts Group and Ring. CO4. Apply fundamental theorem, Isomorphism theorems of groups to prove these theorems for Ring.
	B.ScIII Mathematics Sem-V DSE – E11 Optimization Techniques	CO1. provide student basic knowledge of a range of operation research models and techniques, which can be applied to a variety of industrial and real life applications. CO2. Formulate and apply suitable methods to solve problems. CO3. Identify and select procedures for various sequencing, assignment, transportation problems. CO4. Identify and select suitable methods for various games. CO5. To apply linear programming and find algebraic solution to games.
	B.ScIII Mathematics Sem-V DSE – E12 Integral Transforms B.ScIII Mathematics Sem-VI DSE – F9 Metric Spaces	CO1. Understandconcept of Laplace Transform. CO2. Apply properties of Laplace Transform to solve differential equations. CO3. Understand relation between Laplace and Fourier Transform. CO4. Understand infinite and finite Fourier Transform. CO5. apply Fourier transform to solve real life problems CO1. Acquire the knowledge of notion of metric space, open sets and closed sets. CO2. Demonstrate the properties of continuous functions on metric spaces, CO3. Apply the notion of metric space to continuous functions on metric spaces. CO4. Understand the basic concepts of connectedness, completeness and compactness of metricspaces, CO5. appreciate a process of abstraction of limits and continuity to metric

CHARTAGE



B.ScIII Mathematics Sem-VI DSE – F10 Linear Algebra	CO1. Understandnotion of vector space, subspace, basis. CO2.Understand concept of linear transformation and its application to real life situation. CO3. Work out algebra of linear transformations. CO4. Appreciate connection between linear transformation and matrices. CO5. Work out eigen values, eigen vectors and its connection with real life situation.
B.ScIII Mathematics Sem-VI DSE – F11 Complex Analysis	CO1. Learn basic concepts of functions of complex variable. CO2. Be introduced to concept of analytic functions. CO3. Learn concept of complex integration and basic results thereof. 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 Mathematics Sem-VI DSE – F12 Discrete Mathematics	CO1. Use classical notions of logic; implications, equivalence, negation, proof by contradiction, proof by induction, and quantifiers. CO2. Apply notions in logic in other branches of Mathematics. CO3. Knowelementary algorithms: searching algorithms, sorting, greedy algorithms, and their complexity. CO4. Apply concepts of graph and trees to tackle real situations. CO5. Appreciate applications of shortest path algorithms in computer science.

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

	mme Name: D. Sc. (
Progra	mme Outcomes: Aft	er completion of the Programme, the students will wante for a
PO 1 Understand how to		use statistical knowledge for analysis.
PO 2 Understand the co		ncept of probability and the statistical distributions and applications in
PO 3	Lindardand the prin	nciples, concepts and recent developments in the Statistics.
PO 4	Understand how to	design of experiment and survey sampling are used in real life.
		concepts in Statistics.
PO 5	Deam the various c	omes: After completion of the Programme, the students will be able to:
	omme Speeme Conte	yst, Research Officer, Data Analyst or Data Investigator.
PSO 1	Be a Business anai	ent sector and do research on Consumer prices, Population trend, Economy
PSO 2	The state of the s	thi sector and do resement on
	etc.	was insertial de
PSO 3	Do researchworkir	ompletion of the course, the student will be able to:
		CO.1 Compute various measures of central tendencies, dispersion,
	Part –I Sem.; I	moments, skewness, kurtosis and to interpret them.
	I (DESCRIPTIVE	CO.2 Analyze data pertaining to attributes and to interpret the results.
	STICS I)	CO.2 Analyze data pertaining to attributes and to interpretain CO.1 Distinguish between random and non-random experiments.
B.Sc.	Part –I Sem.: I	CO.1 Distinguish between fandour and non-tangon experts
Paper		CO.2Find the probabilities of various events. CO.3 Understand concept of conditional probability and independence of
	EMENTARY	
	ABILITY	events.
THEC		CO.1Compute correlation coefficient and interpret its value.
	Part –I Sem.: II	CO.2 Compute regression coefficient, interpret its value and use in
	· III (DESCRIPTIVE	regression analysis.
SIAD	ISTICS – II)	CO.3 Compute various index numbers and test for good index number.
		CO.1 Distinguish between discrete variables.
	Part –I Sem.: II	CO.2 Know some standard discrete probability distributions with real life
	r IV (DISCRETE	situations.
	ABILITY RIBUTIONS)	CO.3 Understand concept of bivariate distributions and computation of
DIST		related probabilities.
		CO.1 Uunderstand concept of discrete and continuous probability
	Part -II Sem.: III	distributions with real life situations.
	r V (Probability	CO.2Find the various measures of random variable and probabilities using
Distr	ibutions-I)	its probabilitydistribution.
000000000000000000000000000000000000000		CO.3 Uunderstand the concept of transformation of univariate and bivariate
		continuous randomyariable.
		CO.1 Understand the concept of Multiple Linear Regression, Multiple
	Part -II Sem.: III	Correlations and Partial Correlation.
	r VI (Statistical	CO.2 Uunderstand the meaning, purpose and use of Statistical Quality
Meth	nods-I)	Control
000000000000000000000000000000000000000		CO.3 Uunderstand the need of vital statistics and concept of mortality and
200000000000000000000000000000000000000		fertility. Know the concept of sampling theory.
	n 11 C 117	CO.1 Know some standard continuous probability distributions with real
	. Part -II Sem.: IV	life situations.
3	er VII (Probability	CO.2 Learn and understand the relations among the different distributions.
Dist	ributions-ID	CALL LEGITH and understand the

		PATTI MAHAVIDY ALAL
***************************************		CO.3 Uunderstand the Chi-Square, t and F districtions with their applications and interrelations.
	B.Sc. Part –II Sem.: IV Paper VIII (Statistical Methods-II)	CO.1Know the concept and uses of time series. CO.2 Understand meaning, purpose and uses of sac, construction of various control charts for variables and attributes. CO.3 Apply small and large sample tests in various situations.
	B.Sc. Part -III Sem.: V Paper IX(Probability Distributions)	CO.1 Acquire kknowledge of important univariate distributions. CO.2 Understand the concepts of Multinomial, Bivariate Normal Distribution and Truncated Distributions. CO.3 Apply standard continuous probability distributions to different situations.
	B.Sc. Part –III Sem.: V Paper X (Statistical Inference-I)	CO.1Understand important inferential aspect of point estimation. CO.2 Learn various important properties of estimator, CO.3Understand inference of parameters of standard discrete and continuous distributions.
00000000000000000000000000000000000000	B.Sc. Part –III Sem.: V. Paper XI (Design of Experiments)	CO.1 Acquire knowledge of basic terms used in design of experiments. CO.2 Understand various designs of experiments such as CRD, RBD, LSD, factorial experiments and confounding. CO.3 Learn an appropriate experimental design to analyse the experimental data.
	B.Sc. Part -III Sem.: V. Paper XII (R Programming & Quality Management)	CO1.To learn importance of R programming and knowledge of identifiers and operators in R CO2. Knowledge of Conditional Statements and loops in R CO.3Know quality tools used in Quality management. CO.4 Understand process and product control used in Quality management. CO.5 Learn the concept of Data mining and its applications.
	B.Sc. Part -III Sem.: VI Paper XIII (Probability Theory)	CO.1 Know order statistics and associated distributions, CLT, WLLN CO.2 Understand the concept of stochastic process and its applications. CO.3 Learn theconcept of queuing theory and its applications.
*	B.Sc. Part –III Sem.: VI Paper XIV(Statistical Inference-II)	CO.1 Know interval estimation of mean, variance and population proportion. CO.2Understand important aspect of test of hypothesis and associated concept. CO.3Learn parametric and non-parametric methods.
	B.Sc. Part -III Sem.: VI Paper XV(Sampling Theory)	
	B.Sc. Part -III Sem.: VI Paper XVI (Operation Research)	

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

	ARREST L'ISRAELE AFR	
Progran	me Outcome	s: After completion of the Programme, the students will be to the
PO 1	Studying Che	emistry in academic and Industrial courses.
PO 2	Understand n	anotechnology and applications of non-material.
PO 3	Know various	s spectroscopies such as UV, IR, NMR and mass spectroscopy.
PO 4		ne structure of organic compound with the help of provided spectral data.
PO 5	1	areas of Chemistry and their applications in various spheres.
	*	Outcomes: After completion of the Programme, the students will be able to:
PSO 1		e chemical industry.
PSO 2		research work in various fields.
PSO 3		apportservicessuchaslab. technicians, stock room managers, safety officers etc.
PSO 4		ssistant for doctors,dentists, veterinarians etc.
		ter completion of the course, the student will be able to:
	CONTRACTOR OF THE PROPERTY OF	CO.1 Understand Bohr's theory ofhydrogen atom, quantum numbers, atomic
	rt –I Sem.: II	structure, electronic configuration and various properties of elements
inorgam	c Chemistry	CO.2 Understand formation of ionic bond.
		CO.3 Gain knowledge of chemical bond.
n C. n.	rt –I Sem.: II	CO.1 Understand basic concepts of thermodynamics and thermos-chemistry.
and a street of the		CO.2 Understand kinetic theory of gases, deviation of real gases from idea
	(Physical	behavior, causes of deviation and Van der Waals equation of state for rea
Chemist	(У)	
		gases. CO.3Understand basic concepts of chemical kinetics.
D.C. D.	rt-I Sem.: II	CO.1 Understand basic principle of chromatography and methodology
		applications of Paper and Thin Layer chromatography.
Paper IV		CO.2Learn the theory of titrimetric Analysis and theory of use of indicators.
(Analyti		CO.3Understand physical and chemical analysis of water
Chemist	(3)	
D C D		learn basic programming constructs. CO.1 Understand all the terms related to conductance, Kohlrausch's law and
	rt –II Sem.:	numerical problems.
III Paper		CO.2 To understand Theories of reaction rate in Chemical Kinetics & concep
rnysicai	Chemistry	
		of entropy. CO.3To Understand the terms surface index, refractive index and numerica
		problems.
		CO.4 Ability to solve numerical problems based on entropy
D.C. D.	rt –II Sem.:	CO.1 Understand various methods of analysis in statistics.
		CO.2 To Understand the knowledge of some unit operations.
III Paper		CO.3 Understand the process of corrosion and its prevention.
INGUSTIE	I Chemistry	CO. 4 To get knowledge about Soap and Detergents and cleansing action o
D Co Do	et II Cara	soap. CO1. Understand basic concepts about coordination complexes.
	rt –II Sem.:	CO.2To get the knowledge about Chelation and its application in analytical
IV Paper		
maustria	I Chemistry	chemistry.
		CO.4 To learn the basic knowledge about the qualitative analysis of inorganic
		CO.4 To learn the basic knowledge about the qualitative analysis of inorganic
		Compounds.

		PATIL MANANIO
		TOPO PATIL MANAVIORE SELECTION OF THE PARTY
	Organic Chemistry	CO.2 To get knowledge about classification, and applications of agrines &diazonium salts. CO. 3 Understand the classification & structure of carbohydrates. CO4. To learn the basic knowledge conformational analysis of organic
		Compounds.
	B.Sc. Part –III Sem.: V Paper X	CO.1 Study role of acids and bases in Chemistry. CO.2 Understand geometry, stability and nature of bonding between metal ion
	Inorganic Chemistry	and ligand in complexes. CO.3Understand synthesis and the applications of the semiconductors and Superconductors in electrical and electronic devices.
	B.Sc. Part -III Sem.: V Paper XI	CO.1 Understand chromophore, auxochrome and calculation of λmax. CO.2 Develop the knowledge of vibrational transitions and regions of IR
	Organic Chemistry	spectrum. CO.3 Understand magnetic-nonmagnetic nuclei, shielding-deshielding, chemical shift, splitting pattern.
	B.Sc. Part –III Sem.: V Paper IX Physical Chemistry	CO.1 Understand basic concept of Quantum Mechanics CO.2 Know types of electromagnetic radiations, rotational and vibrational
16.	I Hypitetti Ottomary	CO.3 Learnphotochemical laws, reactions and various photochemical phenomena.
	B.Sc. Part-III Sem.: V Paper XII Industrial Chemistry	CO.1 Learn the techniques of gravimetric analysis. CO.2 Understand working and applications of optical methods as an analytical tool.
	B.Sc. Part -III	CO.3 Understand the basics of ion exchange. CO.1 Understand the thermodynamic and kinetic aspects of metal complexes.
	Sem.: VI Paper XIV Inorganic Chemistry	CO.2 Write Nomenclature of trans uranic elements. CO.3 Understand techniques which involve in ore dressing and extraction of cast iron from its ore.
	B.Sc. Part -III Sem.: VI Paper XV	CO.1 Understand reagents used in organic transformations and various reactions used in organic synthesis.
	Organic Chemistry	CO.2Understand the analytical and synthetic evidences of Citral and Nicotine. CO.3 Understanding classification of drugs, Qualities of ideal drug.
	B.Sc. Part -III Sem.: VI Paper XIII	CO.1 Learn quantum Chemistry, Heisenberg's uncertainty principle and concept of energy operators. CO.2 LearnSchrodinger wave equation. Physical interpretation of the ψ and ψ2.
	Physical Chemistry	CO.3 Understand different spectroscopy. CO1. Learninstrumental analysis of alkali and alkaline earth elements.
	B.Sc. Part -III Sem.: VI Paper XVI Analytical Chemistry	CO1. Learninstrumental analysis of alkan and distance of CO2 Understand theory and applications of potentiometric titrations. CO.3 Understand types of ion exchange and column adsorption chromatography.

Programme Name : B.Sc. (Physics)

	* After completion of programme the students will be allow
Programme outco	mes: After completion of programme, the students will be at the tombserve. The accumulation of facts of nature and the ability to link the facts of nature.
PO1	and discover the laws of nature i.e. develop an understanding and knowledge
and a second	
	of the basic Physics.
PO2	Be eligible for career opportunities in various fields.
PO3	To enhance the student's academic abilities, personal qualities and transferable
	skills this will give them an opportunity to develop as responsible citizens.
PO4	To produce graduates who excel in the competencies and values required for
	leadership to serve a rapidly evolving global community.
Programme specif	ic outcomes: After completion of programme, the students will be able to
PS01	To understand the basic laws and explore the fundamental concepts of physics.
PSO2	Ability to employ critical thinking and efficient problem solving skills in all
	the basic areas of Physics.
PSO3	To understand the concepts and significance of the various physical
	phenomena. To carry out experiments to understand the laws and concepts of
	Physics.
PSO4	This course introduces students to the methods of experimental physics.
	Emphasis will be given on laboratory techniques specially the importance of
	accuracy of measurements.
Course outcomes:	After completion of course, the students will be able to
B.Se-I, Sem-I	CO1: Understand laws of motion and their application. Learn about frame of
Paper-I	reference.
Mechanics-I	CO2: Develop skills to understand and solve the differential equations.
	CO3: Detail study of vector algebra and vector products.
	CO4: Learn the concept of conservation of energy, momentum, angular
	momentum and apply them to basic problems, Rotational Motion.
B.Sc-I, Sem-I	CO1: Understand Kepler's law to describe the motion of planets and
Paper-II	satellite. The study of law of Gravitation, Learn about central force field.
Mechanics-II	CO2: Understand the phenomena of simple harmonic motion.
	CO3: Study and impart knowledge about Torsional oscillations. Study of
	surface tension and it's applications.
B.Sc-I, Sem-II	CO1: Study of Gradient, divergence and curl with its physical significance,
Paper-III	the concept of line, surface and volume integrals of vector fields.
Electricity and	CO2: Study of Gauss law, Coulomb's law for the electric field, and
magnetism-I	application of it to systems of point charges.
	CO3: Explanation of the vector (electric fields, Coulomb's law) and scalar
	(electric potential, electric potential energy) formalisms of electrostatics.
B.Sc-I, Sem-II	CO1: Study of AC circuits (LCR series and Parallel circuit).
Paper-IV	CO2: Study of magnetism (laws & applications), brief introduction of
Electricity and	properties of magnetic materials and dia-, para-, ferromagnetic materials.
magnetism-II	CO3: Understand electromagnetic induction and study of Maxwell laws.
B.Sc-II, Sem-III	CO1: Learn the kinetic theory of gases, transport phenomena and
Paper-V	Thermometry.
Thermal Physics	CO2: Comprehend the basic concepts of thermodynamics, four laws of
and Statistical	The state of the s
Mechanics-I	associated theorems.
	CO3: In the laboratory course, the students are expected to do some basic
reconnections	experiments in thermal Physics.
B.Sc-II, sem-III	CO1: Understand the principle of superposition of SHM's.
Paper-VI	CO2: Study of motion of coupled oscillators, wave motion and ultresonic
Waves and	
optics-I	CO3: Detail study of sound and acoustics of buildings.
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	gauges).
B.Sc-II, Sem-IV Paper-VII Thermal Physics and Statistical Mechanics-II	CO1: Study of the thermodynamic potentials, Learn about Maxwell's thermodynamic relations. CO2: Study of Theory of radiation, Black Body radiation. Also deduction of four laws from Plank's law. CO3: Understand the concepts of microstate, macrostate, ensemble, phase space, thermodynamic probability. CO4: Understand quantum statistics and 3 distribution laws(M-B, B-E, F-D)
B.Sc-II, Sem-IV Paper-VIII Waves and Optics-II	CO1: Study of resolving power of optical instruments. CO2: Study of Cardinal points and it's graphical construction. CO3: Learn about the Physics of polarisation, interference and diffraction in detail.



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Anant Amuchi Otoryasakti I Anant An Asha # Shri Datta Shikshan Prasarak Mandal, Panutre's

Vitthalrao P<u>atil Mahavidy</u>alaya,

(Arts, Commerce & Science) Kale
Tal. Panhala, Dist. Kolhapur, Pin - 416 205 (Maharashtra State) INDIA

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Founder & President Hon Shri Vitthal Shankar Patil LD.C. MA

Secretary : Sou. Alaka Vitthal Patil

Ref. No.

Date

Program Outcomes (POs) and Course Outcome (COs)

Attainment

Attainment of Course Outcome is calculated by using the following formula:

Attainment of Course = 80% (Attainment level in University Examination) +

20% (Attainment level in Internal Examination)

Considering students' University and Internal evaluation marks, the attainments of COs are calculated.

The attainment level of Outcomes is defined as follows:

Level	Percentage (%)
Level 1	Below 45%
Level 2	45 to 59%
Level 3	Above 60 %

I/C PRINCIPAL
Vitthalrao Patil-Mahavidyalaya, Kale
(Arts, Commerce & Science)

Tal. Panhala, Dist. Kolhapur

Overall Performance of all Programmes Level of Attainment: 2017-2018 to 2021-2022

Year	Appeared	Present	Absent	Total Pass	Fail	Passing Percentage	Attainment level
2021-22	257	246	11	196	60	76.26	3
2020-21	325	319	6	260	65	80	3
2019-20	502	479	23	429	73	85.45	3
2018-19	462	449	13	113	346	24.46	1
2017-18	344	334	10	266	75	77.32	3

I/C PRINCIPAL
Vitthalrao Patil Mahavidyalaya, Kale
(Arts, Commerce & Science)
Tal. Panhala, Dist. Kolhapur

Programmes Outcome(PO)Level of Attainment:2021-

				Total		Passing	Attainment
Class	Appeared	Present	Absent	Pass	Fail	Percentage	level
B.A.	107	100	7	83	24	77.57	3
B. Com.	64	63	1	58	5	90.62	3
B. Sc.	86	83	3	55	31	63.93	3
Total	257	246	11	196	60	76.26	3

Vitthalrao Patil Mahavidyalaya, Kale (Arts, Commerce & Science)
Tal. Panhala, Dist. Kolhapur

Programmes Outcome(PO)Level of Attainment:2020-21

Class	Appeared	Present	Absent	Total Pass	Fail	Passing Percentage	Attainment level
B.A.	181	175	6	132	49	72.92	3
B. Com.	56	56	0	46	10	82.14	3
B. Sc.	88	88	0	82	6	93.18	3
Total	325	319	6	260	65	80	3

Vitthalrao Patil Mahavidyalaya, Kale (Arts, Commerce & Science) Tal. Panhala, Dist. Kolhapur

Programmes Outcome(PO)Level of Attainment:2019-20

				Total		Passing	Attainment
Class	Appeared	Present	Absent	Pass	Fail	Percentage	level
B.A.	176	154	22	129	47	73.29	3
B. Com.	53	52	1	50	3	94.33	3
B. Sc.	273	273	0	250	23	91.57	3
Total	502	479	23	429	73	85.45	3

Vitthalrao Patil Mahavidyalaya, Kale (Arts, Commerce & Science) Tal. Panhala, Dist. Kolhapur

Programmes Outcome(PO)Level of Attainment:2018-19

Class	Appeared	Present		Total Pass		Passing Percentage	Attainment level
B.A.	207	197	10	76	131	36.71	1
B. Com.	50	50	0	14	36	28	1
B. Sc.	205	202	3	23	179	11.21	1
Total	462	449	13	113	346	24.46	1

I/C RRINCIPAL
Vitthalrao Patil Mahavidyalaya, Kale
(Arts, Commerce & Science)
Tal. Panhala, Dist. Kolhapur

Programmes Outcome(PO)Level of Attainment:2017-18

Class	Appeared	Present	Absent	Total Pass	1	Passing Percentage	Attainment level
B.A.	160	154	6	127	33	79.3	2
B. Com.	45	44	1	18	27	40	3
B. Sc.	139	136	3	121	15	87.05	1
Total	344	334	10	266	75		3
		001	10	200	/5	77.32	3

Vitthalrao Patii Mahavidyalaya, Kale

(Arts, Commerce & Science) Tal. Panhala, Dist. Kolhapur