Shri Shivaji Mahavidyalaya, Barshi.

Course Outcomes

Year: 2022-23

Department of English

Sr.	Course	Semester	Paper No.	Subject Name	Course outcome
No.	Name	Sumusuu	T uper 1 (or	Subject Marie	
1	B.A.I	I	I	Introduction to English Literature	 To acquaint students with literary forms and linguistic terms. To initiate students and provide them a firsthand experience of reading and interpreting literary texts.
		II	П	Introduction to English Literature (One Act Plays and Literary Terms)	 To acquaint students with structural and analytical techniques in poetry. To acquaint students with analysis of minor literary form i.e. short story.
2	B.A.I	I&II		English(Com)	 Understand the concepts of communication. Expand their vocabulary after reading the prescribed texts. Attain writing, speaking, reading, & listening competence. Be aware of the correct usage of English grammar Become familiar with selected literary forms, develop and strengthen their imaginative ability and the ability to analyze different literary forms.
3	B.A.II	III	III	British Literature-I	 Familiar with a few British writers Familiar with some of the dramas and dramatists Able to understand the features of the text
			IV	British Literature-II	 Familiar with a few British writers Familiar with some of the dramas and dramatists Able to understand the

					features of the text
		IV	V	Indian Literature-I	 Acquire language skills required for day to day and specific purpose. Be able to interpret and illustrate concepts of Communication, Prose and Poetry. Be able to analyze and interpret the text prescribed. Develop certain life skills and strengthen strategies to develop vocabulary.
			VI	Indian Literature-II	Acquire language skills required for day to day and specific purpose. Be able to interpret and illustrate concepts of Communication, Prose and Poetry. Be able to analyze and interpret the text prescribed. Develop certain life skills and strengthen strategies to develop vocabulary.
4	B.A.II	III&IV	-	English(Com)	•
5	B.A.III	V&VI	-	English (Com)	Use oral and written English effectively • Appreciate literary language • Use English language in creative writing • Apply English language skills in clearing
6	B.A.III	V	VII	Introduction to Literary Criticism	□Understand the basics of literary criticism. • Have a critical approach to literature. • Understand the major trends in literary criticism.

		VIII	British Literature	Gain knowledge, stylistic strategies and diction of British literature. • Be able to explore the creativity and the human experiences in fiction, poetry and drama. • Be able to cultivate aesthetic and ethical values in life
 		<u> </u>	Г	
				through literary texts.
		IX	Indian English Literature	Understand gradual development of Indian English literature from mid-twentieth century to post 2000 period. • Get acquainted with major genres/themes through the study of texts prescribed.
		X	Literatures in English	 Understand Afro- American fiction Understand features of Postcolonial Fiction
		XI	Introduction to the Structure & Function of Modern English	Understand various concepts in linguists. • Get acquainted with various branches of linguistics.
	VI	XII	Introduction to Literary Criticism	☐ Understand the basics of literary criticism. ☐ Have a critical approach to literature. ☐ Understand the major trends in literary criticism.
		XIII	Indian English Literature	Understand gradual development of Indian English literature from mid-twentieth century to post 2000 period. • Get acquainted with major genres/themes through the study of texts prescribed.
		XIV	Literatures in English	 Understand Afro- American fiction Understand features of Postcolonial Fiction
		XV	Introduction to the Structure & Function of Modern English	Understand various concepts in linguists. • Get acquainted with various branches of linguistics.

4	M.A.I	I	XVI	Literary Mindscapes British Literature	Use oral and written English effectively • Appreciate literary language • Use English language in creative writing
4	M.A.I	1	1	British Literature	☐ Able to understand the western culture and traditions ☐ Able to understand the British literary pieces.
			II	Indian Literature in English	• At the end of the course the students will get acquainted with later phases of development of Indian English
					Literature and familiar with Indian ethos as reflected in texts prescribed. • At post-graduation level, students will enjoy reading of a number of authors and important literary genres as practiced by select Indian English figures. •As planned while designing the syllabus of this paper, students will get acquainted with thematic plurality, genres handled and style reflected in seminal texts of poetry, fiction drama and nonfiction.
			III	Introduction to Language &Linguistics	The students will be interested in the language • Familiar with some of the mechanism and theories of linguistics

	IV	Comparative Literature	 The students are introduced to different literary expressions written in English language. The students understand thematic perspectives of the literatures written in different countries. The students develop sensitivity and balanced responses to the complexity of human nature as portrayed in literary works. The students develop understanding of the natures and functions of literatures in English. The students develop an awareness of the relationship between texts and their cultural contexts.
II	V	British Literature	☐Able to understand the western culture and traditions ☐Able to understand the British literary pieces.
	VI	Indian Literature in English	• At the end of the course the students will get acquainted with later phases of development of Indian English Literature and familiar with
	VII	Introduction to Language &Linguistics	Indian ethos as reflected in texts prescribed. • At post-graduation level, students will enjoy reading of a number of authors and important literary genres as practiced by select Indian English figures. • As planned while designing the syllabus of this paper, students will get acquainted with thematic plurality, genres handled and style reflected in seminal texts of poetry, fiction drama and nonfiction. The students will be interested in the language • Familiar with some of the mechanism and theories of

			VIII	Comparative Literature	• The students are introduced to different literary expressions written in English
					language. • The students understand thematic
					perspectives of the literatures written in different countries.
					• The students develop
					sensitivity and balanced
					responses to the complexity of human nature as portrayed in
					literary works.
					The students develop
					understanding of the natures and
					functions of literatures in
					English.
					•The students develop an awareness of the relationship
					between texts and their cultural
					contexts.
5	M.AII	III	IX	Contemporary Critical Theories	• Understand how various critical theories developed in the
					course of the 20th Century. • Read & contextualize
					contemporary
					Theories to the best of their
					ability.
					•Develop competency to mark differences and similarities in
					these theories and schools.
					•Develop an ability to apply the
					critical theories to literary texts.
					•Acquire ability to understand their own theoretical/critical
					stance as readers.
					stance as reaucis.

III	X	Postcolonial Literature	 Analyze and interpret the colonial and postcolonial texts applying the postcolonial literary theory. Define the key concepts in postcolonial studies. Read, comprehend and engage with postcolonial literary criticism. Know how race, class, gender, history and identity are presented and problematized in the literary texts, Know how a literary text, explicitly or allegorically represents various aspects of colonial oppressions.
III	XI	Translation Studies	Comprehend translation studies as a separate discipline of knowledge Comprehend the nature, scope and theoretical issues in translation studies Comprehend major issues and methods in literary studies
III	XII	21st Century Skills	•English is the world language. It is spoken worldwide. Students of the postgraduate level should use English in their future life. •With the help of soft skills students can develop their personality in an effective way for better life.
IV	XIII	Contemporary Critical Theories	 Understand how various critical theories developed in the course of the 20th Century. Read & contextualize contemporary Theories to the best of their ability. Develop competency to mark differences and similarities in these theories and schools. Develop an ability to apply the critical theories to literary texts.
			•Acquire ability to understand their own theoretical/critical stance as readers.

			XIV		al Literature	 Analyze and interpret the colonial and postcolonial texts applying the postcolonial literary theory. Define the key concepts in postcolonial studies. Read, comprehend and engage with postcolonial literary criticism. Know how race, class, gender, history and identity are presented and problematized in the literary texts, Know how a literary text, explicitly or allegorically represents various aspects of colonial oppressions.
			XV	Translation		Comprehend translation studies as a separate discipline of knowledge Comprehend the nature, scope and theoretical issues in translation studies Comprehend major issues and methods in literary studies
			XVI	21st Centur	y Skills	•English is the world language. It is spoken worldwide. Students of the postgraduate level should use English in their future life. •With the help of soft skills students can develop their personality in an effective way for better life.
Sr. No.	Course Name	Semester	Paper No.	Subject		Course outcome
1	B.Sc. I	I&II	-	English Com.	Apprecia	nd written English effectively te literary language lish language in creative writing
2	B.Sc. III V&VI		-	English Com.	☐ Apply E	lish language in creative writing nglish language skills in clearing e examinations

Department Of Hindi

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Sr.N	Cours	Se	Paper	PaperName	Course Outcomes
О	е	me	No	नप का नाम	(पा य म केप!रणाम)
	(क ा)	ste	(
		r	नप		
			-11		
1	B.A	ı	1	सा*ह,य र,न	१) छा ∗हदं 1 के लेखक एव ं क6वय7 से प!र8चत होतेह<
'	D.A	'	1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	२) छा ७ म? ∗हदं 1 सा∗ह,य के @त अBभD8च संव8धतF होताहै
	-I				3) छा 7 म? रा।J के @त ेम एव ं सामािजक @तबNता कO भावना
					6वकBसत होती ह<
					४) छा 7 Bलगं , वचन कO Tिाट से वाVय शिYदकरण कO 6व8ध से
					ु अवगत होतेह<।
					9) छा 7∗हदं 1 भाषा के 6वBभ]न मुहावर7, कहावत7 से प!र8चतहोते ह<
					६) छा 7 को देवनागर1 Bल6प म? Bलखे जानेवाले *हदं 1 अकं ो से
					प!र8चत कराना।
		Ш	II	सा*ह,य र,न	१) छा ∗हदं 1 के लेखक एव ं क6वय7 से प!र8चत होते ह<
					२) छा ७ म? ∗हदं 1 सा∗ह,य के @त अBभD8च संव8धतF होता है
					३) छा 7 म? राIJ के @त ेम एव ं सामािजक @तबNता कO भावना
					6वकBसत होती ह<
					४) छा सा ा,कार ६व८ध से प!र८चत होते ह<।
					५) छा 6व_ापन लेखन कौशaया आ,मसात होता है
					६) छा *हदं 1 भाषा के 6वBभ]न मुहावर7, कहावत7 से प!र8चत होते ह<
	B.A	Ξ	III	आध@नक ∗हदं 1	1) आध@नक व6ैवYयप् ण F ∗हदं 1 कहा@नय7 से छा
			•••	ु गटय कहानी	2) अवगत होते हैं । आध@नकता बोध और नए म् aय7 के @त
	-11			एंव dयवहा!रक	3) छा अवगत होते है। ू कहानी कला के @त अBभDची और समी ा
				∗हदं 1	4) छा ा 6वकBसत करते है।
		IV		मYययगीन ∗हदं	1) सामािजक , सांkकृ@तक पाठभृूमी में क6वता के अYययन 6व लेषण
		IV		1 ु काdय,	कO जानकार1 लेते है।
				dयाकरण एव ं	2) भिVतकालीन तथा रातीकालीन क6वता के माYयम से शंगार रस एव ं
				लेखन	वीर ृ रस कO kथापना का मह,,व को अवगत करते है।
				आध@नक *हदं	 आध@नु क ∗हदं 1 एकांकO 6वधा से छा अवगत होते है।
				1 ु गटय- एकांकO एवमं	2) एकांकO कला के @त अB#Dची और समी ा TIट1 छा 6वकBसत
				एकाक्0 एवम dययवहा!रक ∗हदं	करते है।
				1	4) +4 + + + + + + + + + + + + + + + + +
				आध@नक *हदं 1 	- · · · · · · · · · · · · · · · · · · ·
				ुकाdय एव ं `	2) छायाबाद तथा ग@तवाद के माYयम से कृ@त मानवीय पीडा संवेदना से
				लेखन	् छा अवगत होते है।
	B.A	V		∗हदं 1 6वशेष	1) भगवानदास मोरवाल के dयिVत,व से प!र8चत होते है।
	-111			लेखकभगावनदास	2) @त@न8ध कहा@नय7 के 6वषय 6व6वधता से प!र8चत
	-111			मोरवाल	होते है।
		VI		∗हदं 1 6वशेष	1) भगवानदास मोरवाल के उप]यास संसार से प!र8चत होते है। शंकुतला
				लेखकभगावनदास	2) उप]यास कO 6वशेषताओ ं से प!र8चत होते है।
				मोरवाल	

ı		1	T		
	V		काdयशाk	1)	सा∗ह,य @नBमतF ी s या से अवगत होते है।
				2)	गटय तथा पदय त,,वोे से प!र8चत होते है।
				3)	शuद7 कO शिVत से प!र8चत होते है।
	VI		आलोचना	1)	छा सा∗ह,य के उपकरणो से प!र8चत होते है। रसानभु
				2)	@त कO sकय7 से अवगत होते हू <।
					सा∗ह,य के मaयू , गण7 से प!र8चत होते है।ु
	٧		आ∗दकाल1न और	1)	∗हदं 1 सा∗ह,य के दाश@Fनsक पव6Fप∗ठका से छा प!र8चत होते है्
			मYयकाल1न *हदं	2)	I
			1 सा∗ह,य का		∗हदं 1 सा∗ह,य कO आ∗दकाल1न और मYयकाल1न का कालजयी
			इ@तहास सं. 1050 से स.ं 1900		रचनाओ ं तथा रचनाओसं े छा अवगत होते है।
	VI		आध@नक ∗हदं 1	1)	आध@नक ∗हदं 1 सा∗ह,य कO दाश@Fनक प् वपFी∗ठका से
	* .		ु सा∗ह,य का		छा प!र8चत होते हैू । आध@नक ∗हदं 1 सा∗ह,य के इ@तहास के
			इ@तहास सवतं		कालान् Dप 6वBभ]न वाद एव ंु 6वधाओ ं के 6वकास को छा
			1900 से 2010		अवगत करते है।
			तक		
	V		योजनमलक ू	1)	योजनमलक ∗हदं 1 के kaDप एव ं 6वकास से छा प!र8चत होते हैं
	"		*हदं 1	2)	। योजनमलक *हदं 1 के माYयम से रोजगारपरक कौशल छा
				,	6वकBसत ू करते ह<।
	VI		dयवहा!रक *हदं 1	1)	अनवाद का kaDप और मह,,व से छा अवगत हो ु ते ह<।
	"			2)	अनवाद एव ं 6व_ापन लेखन कO मता से छा 6वकBसत
					होते ह् <।
	V		∗हदं 1 भाषा	1)	∗हदं 1 भाषा ए व ं Bल6प से उzव और 6वकास से छा प!र8चत होते
	•			2)	है। मानक ∗हदं 1 वतनF ी और dयाकरण से छा अवगत होते है।
	V		भाषा ६व_ान	1)	भाषा ६व_ान से छा प!र8चत होते है। 3{चारण
				2)	कO शYदता के @त छा जागु त होते है।ृ
M.A.	ı	1.1	आध@नक ∗हदं 1	1)	∗हदं 1 गटय सा∗ह,य से छा प!र8चत होते है।
ı			ु गcय सा∗ह,य	2)	∗हदं 1 गटय सा∗ह,य कO 6व6वध 6वधासो का अYययन करत है।
	Ш	1.1	आध@नक ∗हदं 1	1)	ता,काल1न भारतीय सामािजक सांkकृ@त प!रवेश से छा प!र8चत होते
	''	'''	ु गcय सा∗ह,य	2)	है। छा 7 से ∗हदं 1 गटय 6वधा के @त D8च @नमाFण होती है।
	ı	1.2	भाषा ६व_ान	1)	भाषा और भाषा 6व_ान से छा प!र8चत हौते ह<।
		'		2)	Dप 6व_ान, अथ F 6व_ान से छा अवगत होते
					ह<।
	II	1.2	∗हदं 1 भाषा एव	1)	∗हदं 1 कO ऐ@तहाBसक पाठभृBम से छा प!र8चत होते है ।
	''		ं Вल6प	2)	देवनागर1 Bल6प कO उ,पती एवं ं उसकO 6वशेषतास7 से छा प!र8चत
					होते है।
	ı	1.3	योजनमलक ू	1)	कामकाजी ∗हदं 1 से छा प!र8चत होते ह<।
	-		*हदं 1	2)	राजभाषा कO सं6वधा@नक िkथती से छा प!र8चत होते ह<।
	Ш	1.3	संगणकOय *हदं	1)	संगणक म? ∗हदं 1 के अनयोग से छा अवगत होते ह् <।
			1	2)	म∗~त और इलेVJॉ@नक माYयम से छा प!र8चत होते हु
			एंव dयवहा!रक		<
 	_				

			*हदं 1		
	1	1.4	dयावसा@यक	1)	प!रका!रता के kaDप कार और मह,,व से छा प!र8चत होते ह<। प
			वगFप का!रता	2)	का!रता के मल त,,व7 से छा अवगत होते हू<।
	Ш	1.4	dयावसा@यक	1)	6 टं प का!रता और म~णकला के सदं भ F जानकार1 छा अवगत करते
			वगFप का!रता	2)	हु <। भारतीय सं6वधान म? द,त मौBलक अ8धकार सचना और
					मानवा8धकार ू से छा प!र8चत होते ह<।
	ı	1.2	अनवादु	1)	अनवाद कO सामािजक उपदयेयता से छा प!र8चत होते ह्
				2)	<। अनवाद सु ः रोजगार के े ो छा अवगत
					होते ह<।
•			•		
	II	1.2	∗हदं 1 सा∗ह,य	1)	∗हदं 1 सा∗ह,य एव ं Bसनेमा से छा प!र8चत होते ह<।
	''	1.2	और Вसनेमा	2)	∗हदं 1 सा∗ह,यीक कृ@तय7 के sफaमांतरण कO s या से छा अवगत
					होते ह<।
M.A.	III	3.1	∗हदं 1 सा∗ह,य	1)	छा ∗हदं 1 सा∗ह,य के मह,,व से प!र8चत होकर उसका 6व लेषण करते
	'''	0.1	का इ@तहास	,	ह<।
II				2)	छा 7 को आ∗दकाल1न, भि∨तकाल1न, !र@तकाल1न सा∗ह,य कO
				,	जानकार1 होती ह<।
	IV	4.1	∗हदं 1 सा∗ह,य	1)	आध@नककाल1न प!रवें श एव ं 6वBभ]न दशनF 7 से छा
	' '	'''	का इ@तहास	2)	प!र8चत होते ह<। 6वBभ]न 6वमश से छा प!र8चत होते ह<।
	Ш	3.2	काdयशाk एव ं	1)	काdयशाk को लेकर भारतीय 8चतं न से छा प!र8चत होते ह<।
	'''	0.2	सा*ह,यालोचन	2)	संkकृत काdयशाk के 6वकास म से छा प!र8चत ह<।
	IV	4.2	काdयशाk एंव	1)	पा चा,य काdयशाk के इ@तहास से छा प!र8चत होते ह<। पा चा,य
	' '	1.2	सा*ह,यलोचन	2)	काdयशाk के BसYदांतो के kaDप अवधरणास? छा प!र8चत होते
					ह<।
	Ш	3.3	अनसंधान ६व८ध	1)	छा अनसंधान s या और 6वधी से प!र8चत हौु ते ह<।
		0.0	ु और s या	2)	सा∗हि,यक अनसंधान के 6वBभ]न े 7 से छा अवगत होते ह्
					<
	IV	4.3	अनसंधान ६व८ध	1)	छा अनसंधान प!रयोजना कौशल आ,मसात करने मु ? स म होते
	' '		ु और s या	2)	ड ह<। छा को अनसंधान संशोधन पYद@त और 6व8ध मु
					D8च @नमाणF होती ह<।
	III	3.1	ाचीन एव ं	1)	ाचीन काdय परंपरा से छा प!र8चत होते ह<। नाथ
	'''	5.	मYयकाल1न	2)	सा∗ह,य और सsफ काdय से छा प!र8चत होते ह्
			काdय	'	<
	IV	4.1	ाचीन एव ं	1)	3, मYयकाल1न काdय से छा प!र8चत होते ह<।
	' '	7.	मYयकाल1न	2)	छा बहार1 और घनानदं के dयिVत,व एव ं कृ@त,,व से प!र8चत होते
			काdय	ĺ	ह<।
	III	3.2	sफaम Bममांसा	1)	∗हदं 1 sफaम उzव एव ं 6वकास से छा प!र8चत होते ह<।
	'''	0.2		2)	sफaम @नBमतF ी एव ं पा 7 से छा प!र8चत होते ह<।
	IV	4.2	दBलत एंव	1)	दBलत सा∗ह,य एव ं अ∗दवासी सा∗ह,य से छा प!र8चत होते ह<।
	'	7.2	आ*दवासी	2)	आध@नक ∗हदं 1 सा∗ह,य मु ? वा∗हत 6वचारधारा से छा अवगत
			सा∗ह,य	-,	होते ह<।
 l .	<u> </u>	1	1 ''		• •

Department Of Marathi

अभ्यासक्रमाची उद्दिष्टे :-

अ. क्र.	वर्ग	सत्र	अभ्यासपत्रत्रका क्रमाांक आत्रि नाव	अभ्यासक्रम उत्रिष्टे
8	बी. ए. भाग - १	I & II	आवश्यक मराठी - साहित्यदर्पण	 भराठी भाषा समर्पर्णे वार्रण्याची क्षमता हवद्यार्थ्याांमध्ये हिमापण व्िावी साहित्याचे हवहवध प्रकाराांचे व प्रवािां वि आकित, आस्वाद, व हवश्लेषण करता यावे. साहित्यात माांडलेल्या हवषयाच्या अषांगािु जीविातील प्रश्व समजाविू देणे मराठी भाषेचे वभै व हष्टीर्ात यावे, व त्यातिु सामाइजक हष्टी हवकदसत िोण्याची प्रेरणा हमळावी
	बी. ए. भाग - १	I & II	ऐहर्च्िक मराठी - साहित्यरांग	 १) हवद्यार्थयाांमध्ये मराठी भाषा आहण साहित्याची जाणीव समद्भृ करणे २) हवद्यार्थयाांिा मराठी साहित्यातील हवहवध प्रकार व प्रवािाांची ओळख करूि देणे. ३) हवद्यार्थयाांिा कर्ा व कहवता या साहित्यप्रकाराची सांकव्िा, स्वरूर् व राँर्रा समजावि सांगणे. ४) हवद्यार्थयाांिा भाषेचे उर्योजि हिकवतािा बातमीलेखि व हिबांधलेखि कोंित्य हिकहवणे
5	बी. ए. भाग - २	III	र्ेर क्रमांक - तीि मराठी वाङ्मयप्रकार आहण उर्योहजत मराठी	१) कादांबरी या साहित्यप्रकाराचे वेगळेर्ण लक्षात घेणे. २) कादांबरी दिइमपतीतील लेखकाचे मित्व अधोरेहस्वत करणे. ३) कादांबरीतील आिय व अिभवु समजावि देणे. ४) हवद्यार्थयाांचे व्यक्तीमत्व कलागणु सांर्ज्ि करणारी कौंिल्ये हवकहसत करणे
	बी. ए. भाग - २	III	र्ेर क्रमांक - चार कहवता आहण काव्यास्वाद :-	१) कहवता या साहित्यप्रकाराची ओळख करूि देणे २) मराठी कहवतेची वाटचाल समजूि घेणे ३) मराठी कहवतेतील हचत्रणाचा आढावा घेणे. ४) कहवतेतील प्रहतमा, प्रहतके, व हमकाांचे मित्व समजूि देणे
		IV	र्ेर्र क्रमांक – र्ाच आत्मकर्ि आहण उर्योहजत मराठी	१) आत्मकर्ि म्िणजे काय ते समजिू घेणे. २) आत्मकर्िाचे साहिहत्यक मत्यू तर्ासणे. ३) आत्मकर्िाची मराठी वाटचाल समजिू घेणे. ४) उर्योहजत मराठीचे व्यावाररक मत्यू समजाविू देणे.
		IV	र्ेर क्रमाांक - साि	१) िाटक या साहित्यप्रकाराची ओळख करूि देणे.

			िाटक वाङ्मय प्रकार आहण उर्योहजत मराठी	२) िाटकाचे हवहवध घटक समजावि देणे. ३) मराठी िाटकाची वाटचाल समजावि देणे. ४) उर्योहजत मराठीतील घटक समजावि देणे.
3	बी. ए. भाग - तीि	V	र्ेर्र क्रमाांक – सात साद्गित्यास्त्र	१) साहित्यलक्षणाच्या हवहवध हसध्द्राांताांचा रेख्य करूि देणे. २) साहित्याचे स्वरूर् समजावि साांगणे. ३) साहित्याच्या हवहवध प्रयोजाांचा रेख्य करूि देणे ४) साहित्यहिहमपतीच्या कारणाांची माहिती करूि देणे
		V	र्ेर्र क्रमांक - आठ भाषाहवज्ञाि व व्याकरण	१) मािवी जीविातील भाषेचे स्वरूर् व मित्व हवद्यार्थयाांिा समजावि सांगणे २) हवद्यार्थयाांमध्ये वज्ञै ाहिक हष्टीकोि हवकहसत करणे. ३) भाहषक सांप्रेषणाचा रंख्य करूि घेणे. ४)भाषा रंखतिपाचे स्वरूर् रूट करणे. ५) मराठी भाषेच्या व्याकरणाचे स्वरूर् समजावि सांगणे.
		V	र्ेर क्रमांक - िऊ मध्ययगीिु मराठी वाङ्गयाचा इहतास (इ. स. ११०१ ते १८००)	 १) मध्ययगीि मराठी वाङ्मयाची राँर्य व इहितास यांचा रेरचय करूि देणे. २) मध्ययगीि मराठी साहित्यातील हिहमपतीच्या प्रेरणांचा रेरचय करूि देणे. ३) मध्ययगीि मराठी साहित्याचे स्वरूर्व वहैिष्ट्य याांचा रेरचय करूि देणे. ४) मध्ययगीि मराठी वाङ्मयाची सास्ांकृ हतक राष्ट्र्यभाी सास्तु देणे.
		V	र्ेर क्रमाांक - दिा उर्योहजत मराठी	१) हवद्यार्थयाांिा र्ारभाहषक िबदाांचा रेखय करूि देणे. २) ई - मराठी लेखाचे मित्व समजावि साांगणे 3) महितु िोधाचे मित्व साांगू त्याचा सराव करूि घेणे ४) स्थाप रींक्षेतील मराठी भाषेचे मित्व लक्षात आणू देणे.
		V	र्ेर क्रमाांक - ११ आधिहकु मराठी साहित्यातील हवहवध प्रवाि (ग्रामीण व दहतत)	१) आधिहकु मराठी साहित्यातील प्रवािां व्या हिहमपतीची र्ार्षभमीू समजावि साांगणे. २) ग्रामीण व दहलत साहित्य प्रवािाची सांकव्िा, प्रेरणा स्वरूर् व वहेंिष्ट्ये हविद करणे. ३) ग्रामीण व दहलत साहित्यप्रवािां वा उदगम व हवकास रूट करणे. ४) ग्रामीण कहवतेची आयसत्रे, भाषावहेंिष्ट्ये हविद करणे. ५) दहलत कर्ेवा आय, सामाहजकता, वचै ाररकता रूट करूि सांगणे

बी. ए. भाग - तीि	VI	र्ेर्र क्रमाांक – बारा	१) साहित्यलक्षणाच्या हवहवध हसध्दाांताांचा रंख्य करूि देणे.				
		रसद्वचार	२) साहित्याचे स्वरूर् समजावि साांगणे. ३) साहित्याच्या हवहवध प्रयोजाांचा रेखय करूि देणे ४) साहित्यहिहमपतीच्या कारणाांची माहिती करूि देणे				
	VI	र्ेर क्रमांक – तरे ा भाषाहवज्ञाि व व्याकरण DSE - 8	 श) मािची जीविातील भाषेचे स्वरूर् व मित्व हवद्यार्थयाांिा समजावि साांगणे श हवद्यार्थयाांमध्ये वज्ञै ादिक हष्टीकोि हवकदसत करणे. भाहषक सांप्रेषणाचा रेखय करूि घेणे. ४)भाषा रेखतिपाचे स्वरूर् रुष्ट करणे. भाराठी भाषेच्या व्याकरणाचे स्वरूर् समजावि साांगणे 				
	VI	र्ेर्र क्रमांक – चौदा मध्ययगीिु मराठी वाङ्मयाचा इहतास (इ. स. ११०१ ते १८००)	 १) मध्ययगीिु मराठी वाङ्मयाची राँर्य व इहतिास याांचा रेखय करूि देणे. २) मध्ययगीिु मराठी साहित्यातील हिहमपतीच्या प्रेरणाांचा रेख्य करूि देणे. ३) मध्ययगीिु मराठी साहित्याचे स्वरूर् व वहैंिष्ट्य याांचा रेख्य करूि देणे. ४) मध्ययगीिु मराठी वाङ्मयाची सास्ांकृ हतक ्रार्थभमीू समिजू देणे. 				
	VI	र्ेर्र क्रमांक - र्ांधरा उर्योहजत मराठी	१) मराठी भाषेचे हवहवध क्षेत्रातील मित्व व उर्योजि हवद्यार्थयाांिा समजावि साांगणे. २) जादिरात कलेची उर्यक्तताः रुष्ट करूि साांगणे. ३) हवद्यार्थयाांमध्ये दिवेदि कौित्ये हवकदसत करणे. ४) ब्रांड्रिक्षणाचे मित्व व स्वरूर् समजावि साांगणे				

		VI	र्ेर क्रमांक – सोळा आधिहकु मराठी साहित्यातील हवहवध प्रवाि, (स्त्रीवादी, महस्लमु	१) आधिदकु मराठी साहित्यातील प्रवािाःंच्या हिद्रमपतीची र्ार्श्पभमीू समजावि सांगणे. २) स्त्रीवादी व महस्तमु साहित्यप्रवािाःंची सांकव्िा, स्वरूर्, प्रेरणा दविद करणे. ३) वरील साहित्यप्रवािाःंचा उदगम व दवकास रुष्ट करणे. ४) कादांबरीतील आयसत्रे, समाजहचत्रण, घटिप्रसांग, व्यहक्तरेखा व भाषा द्विद करणे. ५) आत्मचरस्त्राचा आय, जीविसांघषप, सामाद्रजकता, वचै ाररकता, भाषा रुष्ट करूि सागां णे
8	एम. ए. भाग - १	I	अभ्यासर्हत्रका क्रमांक – १ साहित्यहवचार	 १) साहित्य हिडमपतीप्रहक्रयेची माहिती देणे. २) साहित्यकृ ती अभ्यासतािा साहित्य हवचाराचे उर्योजि करणे. ३) लहतत साहित्याचे मत्यमार्िू करणे. ४) साहित्यकृ तीचे सवांकष समीक्षण करणे. १) भाइषक सांवादाचे मित्व लक्षात आणू देणे.

	अभ्यासर्हत्रका क्रमांक – २ मराठी भाषा सांवाद व उर्योजि	२) वक्तृ त्व तत्रां व कौित्ये समजावि सांगणे. ३) वत्तर्त्रीयृ लेखि, बातमीलेखि, सांर्ादकीय लेखाांचे हवश्लेषण करणे. ४) जाहिरात हिहमपती करता येणे.
I	HCT - १.३ आधहिकु मराठी वाङ्गयाचा इहतास (१८०० ते १९२०)	१) साहित्य व साहिहत्यक याांचे कालखांडािसारू ज्ञाि देणे २) वाङ्मय इहतिासाची र्रार्रा समजिू घेणे. ३) साहित्यकृ तीच्या प्रभावाची कारणे समजिू घेणे. ४) १८०० ते १९२० या कादांबरीतील साहित्याचे मल्यमार्िू करणे.
I	र्ेर्र क्रमांक - SCT - १.१ एका तेखकाचा अभ्यास (मध्ययगीिु सांत तकारामु)	१) मध्ययगीिु सादित्य समाज आद्दण सस्ांकृ ती अभ्यासणे. २) लेखक र्द्धती समज्रि घेणे. ३) सांत तकारामु याांच्या अभांगाांचा सस्वोल अभ्यास करणे. ४) सांत तकारामु याांच्या अभांगाांचे सादिद्दत्यक मल्यमार्िू करणे.
I	ा अभ्यासर्हत्रका क्रमांक - ६ साहित्यहवचार समीक्षा	१) समीक्षेच्या प्रकाराांचे ज्ञाि देणे २) समीक्षा सांकव्िा समज्रि घेणे. ३) समीक्षा र्द्धतीचा वार्र करणे. ४) वत्तर्त्रीयृ समीक्षा दितता येणे.

	II	अभ्यासर्हत्रका क्रमांक - ७ मराठी भाषा सांवाद व उर्योजि	१) आकािवाणी उद्घोषणा, बातमी देता येणे. २) दरदिपिू बातमी, माहलकाांचे हवश्लेषण करता येणे. ३) समाजमाध्यमावरील सांवादाचे उर्योजि करणे. ४) youtube साठी लघर्टु हिहमपती करणे.
	II	अभ्यासर्हत्रका क्रमांक - ८ आधिहकु मराठी वाङ्मयाचा इहतास इ. स. १९२० ते १९६०	१) साहित्य व साहिहत्यक याांचे कालखांडािसारू ज्ञाि देणे २) वाङ्मय इहतािसाची र्शर्य समजिू घेणे. ३) साहित्यकृ तीच्या प्रभावाची कारणे समजिू घेणे. ४) इ. स. १९२० ते १९६० या कादांबरीतील साहित्याचे मल्यमार्िू करणे.
	П	एका तेखकाचा अभ्यास आधहिकु - मात्मा जोतीराव फु ते	 मात्मा फु ते याांच्या समग्र साहित्याचा सखोल अभ्यास करणे. मात्मा फु ते याांचे सामाहजक व िक्षे हणक कायप समजित् घेणे. मात्मा फु ते याांच्या कायपकतपत्वाचे वाङ्मरीि कायपकतपत्वाचे वेगळेर्ण तक्षात घेणे. मात्मा फु ते याांच्या कायापची कातसमर्पकता समजाितू घेणे.
एम. ए. भाग - दोि	III	अभ्यासर्हत्रका HCT - ३.१ आधहिकु भाषाहवज्ञाि	 मािवी जीविातील भाषेचे स्वरूर् व मित्व हवद्यार्थयांिा समजावि सांगणे हवद्यार्थयांमध्ये वज्ञै ाहिक हष्टीकोि हवकहसत करणे. भाहषक सांप्रेषणाचा रेख्य करूि घेणे. भाषा रेखतिपाचे स्वरूर् रूट करणे. मराठी भाषेच्या व्याकरणाचे स्वरूर् समजावि सांगणे.
	III	आधहिकु मराठी वाङ्मयाचा इहति।स १९६० ते १९९०	 १) मराठी वाङ्मचाची राँर्य व इहितास याांचा रेख्य करूि देणे. २) मराठी साहित्यातील हिहमपतीच्या प्रेरणाांचा रेख्य करूि देणे. ३) मराठी साहित्याचे खरूर् व वहैिष्ट्य याांचा रेख्य करूि देणे. ४) मराठी वाङ्मयाची साांस्कृ हतक र्ार्श्भमीू समिजू देणे
	III	भाषा व साहित्य : सांिोधािचे र्द्धतीिास्त्र	१) सांिोधाचे मित्व समजू घेणे. २) भाषा आइण सादित्य सांिोधाचे स्वरूर् व वगे ळेर्ण समजू घेणे. ३) भाषा व सादित्याच्या सांिोधाचे र्इतीिास्त्र समजू घेणे. ४) भाषा व सादित्य सांिोधात्मक लेखाचा रंख्य करूि घेणे.

III	अभ्यासर्हत्रका OET :- ३.१मराठी भाषा व स्थाप रीक्षा	१) भाषेचे स्वरूर् द्विष समजू घेणे. २) भाषेतील स्तरभेद व बोलीचा अभ्यास करणे. ३) लोकसादित्याचे स्वरूर् द्विष समज्रि घेणे. ४) लोकसादित्याचे प्रकार भेद समज्रि घेणे.
IV	अभ्यासर्हत्रका HCT ४.१ समाजभाषाद्वज्ञाि	 १) समाजभाषाहवज्ञािाच्या हवहवध हसध्दाांताांचा रेख्य करूि देणे. २समाजभाषाहवज्ञािाचे स्वरूर् समजावि साांगणे. ३) समाजभाषाहवज्ञािाच्या हवहवध प्रयोजाांचा रेख्य करूि देणे ४) समाजभाषाहवज्ञािाची माहिती करूि देणे
IV	आधिहकु मराठी वाङ्गयाचा इहतिास १९९० ते २०१०	 १) मराठी वाङ्मचाची राँर्य व इहितास याांचा रेख्य करूि देणे. २) मराठी साहित्यातील हिहमपतीच्या प्रेरणांचा रेख्य करूि देणे. ३) मराठी साहित्याचे खरूर् व वहैंिष्ट्य याांचा रेख्य करूि देणे. ४) मराठी वाङ्मचाची साांस्कृ हतक र्ार्श्भमीू समित्रू देणे. देणे.
IV	अभ्यासर्हत्रका HCT - ४.३ िोधप्रबांध लेखि	१) भाषा व साहित्य सांिोधि र्इती समजू घेणे. २) िोधप्रबांध लेखाचे स्वरूर् लक्षात घेणे. ३) िोधप्रबांध लेखाची िास्त्रीय माहिती देणे. ४) प्रत्यक्ष िोधप्रबांध सादर करणे.
IV	र्ेर क्रमांक - ४. ४ लोकहप्रय साहित्य	१) लोकहप्रय साहित्याचे स्वरूर् समजू घेणे. २) लोकहप्रय साहित्याचा उगम, व वाटचाल लक्षात घेणे. ३) लोकहप्रय साहित्याच्या भाषेचे वेगळेर्ण समजू घेणे. ४) लोकहप्रय साहित्य आहण वाचकाांची अहभरूची याांचा सिसांबांध रूट करणे.

Department of Political Science

Sr. No	Year	Course Name	Sem.	Paper No.	Paper Name	Course Outcome
		B.A.I	I	I	Constitutional Government and Democracy in India	 Student understands making of Indian Constitution, It's features& Philosophy It extends the consciousness of the student about the fundamental rights & duties of citizen.
1.	1. 2021-22		II	II	Constitutional Government and Democracy in India	 Course gives analytical perspectives about federal structure of India and actual functioning of Union- State governments. Course introduces to student nature, ideology & role of national political parties in India.
	2021-22	B.A.II	.III	III	Introduction To Political Theory	 Students will understand certain key aspects of conceptual analysis in political theory. Students will apply concepts to contemporary political issues
				IV	Modern Indian Political Thought	 Students will understand to the concepts, ideas and theories that developed in India. Students will compare thinkers on similar concept
2.				IDS	Public Administration	 Students will understand the governing philosophy into programs, policies and activities and making it a part of community living. Develop a deeper understanding of the personnel public administration.
			IV	V	Introduction To Political Theory	 Students will understand to the concepts, ideas and theories Student explains significance of liberty, equality and justice.
				VI	Modern Indian Political Thought	 Students will use concepts to analyze new situations. Students will explain the nature and value of normative thinking

				IDS	Public Administration	1) Students will understand the governing philosophy into programs,
						policies. 2) Develop a deeper understanding of the financial administration.
				VII	Government & Politics of Maharashtra	Students will have a summary understanding of formation of Sanyukta Maharashtra& determinants of politics of Maharashtra. Develop a deeper understanding of the structure and policy of Maharashtra Government.
				VIII	Political Sociology	 Develop a deeper understanding of the concepts in modern political theory. Students will apply certain key aspects of conceptual analysis in modern political theory.
3.	2021-22	B.A.III	V	IX	Introduction to International Politics	1) To understand some important theoretical approaches in international relations & a history from 1945 onwards to the present. 2) To evaluate the foreign policy of Indian since independence and its possible future trajectory.
				X	Comparative Government & Politics	 Develop a deeper understanding of the structures and politics of United Kingdom, USA and Switzerland. To understand the politics in United Kingdom, USA and Switzerland government comparatively and to know the principles of good governance.

				Develop consciousness of the
		XI	Western Political Thought	concepts, ideas and theories that developed in Western country. &western political tradition. 2) To understand seminal contribution of western political Thinker to the evolution of political theorizing in western country. 3) To understand concepts of classical political thinker.
	VI	XII	Government & Politics of	Develop a deeper understanding of the structure and policy of Panchyat Raj
			Maharashtra	Sansthas and Local Self Government. 2) Develop a deeper understanding of the structure and policy of Maharashtra Government, Panchyat Raj Sansthas and Local Self Government.
		XIII	Political Sociology	 Develop a deeper understanding of the concepts in political theory. Students will apply certain key aspects of conceptual analysis in contemporary political theory.
		IVX	Introduction to International Politics	 To understand some important theoretical approaches in international organization & a history from 1945 onwards to the present. To evaluate the foreign policy of Indian since independence and its possible future trajectory.
		XV	Comparative Government & Politics	 Develop a deeper understanding of the structures and politics of United Kingdom, USA and Switzerland. To understand the politics in United Kingdom, USA and Switzerland government comparatively and to know the principles of good governance.

				XVI	Western Political Thought	 Students will explain their relevance of Classical Political Thoughts to contemporary times. Students will explain their relevance of Western Political Thoughts to contemporary times.
				HCT- 1.1	Political Theory	 Student explains nature & significance of political theory. To understand modern theories of state & democracy.
4	2021-22	M.A. I	I	HCT- 1.2	Major Ideas in Public Administration	 To understand some important theoretical approaches& views in Public Administration. To deeper understanding the bases of organization. To understand the principles of organization.
				HCT- 1.3	Constitution of India	Student explains understanding making of Indian Constitution, its features&
						Philosophy.
						2) Student explains understanding making of Indian Constitution, its features& Philosophy.
				DSC- 1.2	Modern Indian Political Thought	 Student explains the concepts, ideas and theories that developed in Modern India. To understand history of Indian Renaissance. Students will have a summary understanding of New Humanism, Communism & Socialism in the view of Indian Thinkers.
				SCT- 1.2	Financial Administration in India	 Student explains nature & significance of financial Administration. Develop a deeper understanding of the personnel& financial administration.
				HCT- 2.1	Contemporary Political Theory	 Student explains nature & significance of contemporary political theory. Deeper understanding of the liberalism.
			II	HCT- 2.2	Issues in Public Administration	 Develop a deeper understanding of the Issues in Public Administration. Develop a deeper understanding of the Good Governance, E-Governance

				HCT- 2.3	Political Process in India	1) 2)	To understand theories of federalism. Develop a deeper understanding of the various ideologies of political party.
				DSC- 2.1	Electoral Politics in India	1)	To understand Electoral Politics under Colonial Rule. Develop a deeper understanding of the Electoral System in India since 1950
				SCT- 2.1	Human Rights	1) 2)	Students will explicate analyze concepts & some Theories of Human Rights. Develop a deeper understanding of the Women's and Child Rights, Rights of Minorities and Rights of SC and ST.
				HCT- 3.1	International Relations	1) 2)	Students will explicate analyze concepts & some Theories of International relations. Students will explicate analyze key concepts of International relations.
5.	2021-22	M.A. II	III	HCT- 3.2	Government & Politics of Maharashtra	1) 2)	Maharashtra& determinants of politics of Maharashtra. Students will analyze and critically assess the Demand for separate Vidarbha State
				НСТ-	Research	1)	Students will learn research methods and
				3.3	Methodology	2)	hypothesis writing, testing. Demonstrate critical thinking and writing skills related to Report Writing.
				DSC- 3.1	Western Political Thought	1)	Develop consciousness of the Classical& Christian political thought. Student will demonstrate understanding of secularization of political thought.
				SCT- 3.1	International Organizations	1)	Students will explicate analyze concepts & some Theories of International organizations. Student will demonstrate understanding of Regional Organizations
				HCT- 4.1	Indian Foreign Policy	1)	To understand the nature, scope and objective of foreign policy To understand the India's Relations with South Asian Countries.
			IV	HCT- 4.2	Local Self Government in Maharashtra	1) 2)	Student explains the composition and policy making of Maharashtra Government. Student explains the composition and policy making of Panchyat Raj Sansthas and Local Self Government.

HCT- 4.3	Dissertation	2)	Students will have a stronger and more informed perspective on Research Methodology in Political Science. Demonstrate critical thinking and writing skills related to Report Writing.
DSC- 4.1	Western Political Thinkers		To understand theories of Social Contract. Develop a deeper understanding of the various ideologies.
SCT- 4.1	Foreign Policy & Diplomacy	2)	To understand the Foreign Policy & Diplomacy. To understand the Process and Administration of Foreign Policy

Department of History

Sr. No	Course Name	Sem. No.	Paper No.	Paper Name	Course Outcome	
1	B.A.I	Ι	I	ChhatrapatiShiv aji and his Times	 Students will be able to examine institutional basis of Maharashtra. Students will be able the real history of Chh. ShivajiMaharaj and his Times. 	
		II	II	ChhatrapatiShiv aji and his Times	1.Students will be able to examine social, economic and religious condition in Medieval Maharashtra. 2. Students will be able to analyse civil administration, military administration and judicial system during the 1630-1707 A.D.	
2	B.A.II	III	III	History of Modern Europe 1.Students will be able to understand the contemporary Europe in the light of its background history. 2. Students will be able to understand the va Revolutions and basis of development European countries.		
			IV	History of Indian Freedom Movement	 Students will be able to understand the major events of India's freedom struggle. Students will be able to understand rise and growth nationalism in Europe. 	
		IV	V	History of Modern Europe	1.Students will be able to understand rise and growth nationalism in Europe. 2.Students will be able to understand main forces, personalities, events and movements that has shaped the Modern Europe.	
			VI	History of Indian Freedom Movement	 1.It will increase the spirit of healthy Nationalism, Democratic values and secularism among the student. 2. Students will be able to understand and assess the contribution of national leaders. 	
	IDS	III	IDS	History of Social Reforms in Maharashtra	1.Students will be able to examine social background of Maharashtra. 2.Understand various social reform movements and contribution of social reformer in Maharashtra.	
		IV	IDS	History of Social Reforms in Maharashtra	1.Identify the different types of social problems in our society.2.It will increase the spirit of humanity, secularism gender equality among the students.	
3	B.A.II I	V	VII	Ancient India	 Students will be able to examine institutional basis of India. Identify the rules and their administration. 	

			VIII	Mughal India	 Students will be able to examine social, economic and religious condition in Medieval period. Analyse the impact of various rule on Indian polity and society.
			IX	Expansion and Downfall of the Maratha Power	1.Students will be able to analyse the Marathas policy of expansionism. 2.Understand the role played by the Marathas in the 18 th century polity.
			X	Modern World	 Students will understand the relations between the nations in the world. Students will study the political, social and economic challenges in the Modern World.
			XI	Historical Sources, Research and Places	 Students will be able to explain the what is history and importance of history. Students will be able to examine sources of history.
		VI	XII	Ancient India	 Evaluate the legacy of Shaivism, Vaishnavism, Buddhism and Jainism. Analyze the features of Indian art and architecture.
			XIII	Mughal India	1.Students will be able to explain our heritage through culture aspects of India. 2.Assess the economy and religion of various rule.
			IVX	Expansion and Downfall of the Maratha Power	1. Students will be able to analyse the civil, military administration and judicial system during the Peshwa period.
			XV	Modern World	1.Students understand the consequences of the World War-I,II and Cold War regarding the present global crises. 2.Analyze the streamline the role of League of Nations.
			XVI	Historical Sources, Research and Places	 Students will understand the Museum and Historical Tourism. Identify the different types of primary and secondary sources.
4.	M.A.I	Ι	HCT -1.1	Historiography	1.Understand about the Research process in Historical research 2.Know the relationship of history with its allied disciplines.
			HCT -1.2	Ancient India up to 650.	 Student will able to gather knowledge about the society, culture, religion and political history of ancient India. The Student will able to acquire knowledge about Indus civilization and Vedic Period.
			HCT -1.3	History of World (1900- 1970)	1.Students will understand the relations between the nations in the world. 2.Students will study the political, social and economic challenges in the Modern World.

			DSE- 1.1 SCT- 1.1	Medieval India (1200-1700) History of India (1757-1857)	1.The political and administrative conditions during the Delhi Sultanate period. 2.The social and economic conditions prevailing during the time of Delhi Sultanate 1.Identify the strategies of British for Imperial control 2.The student will become familiar with the foundation & Administration of Modern India	
		II	HCT -2.1	Historiography	1.As a history student will learn about the historiographical trends, interpretation of the historical sources of India as well. 2. Students will be able to explain the what is history and importance of history.	
			HCT -2.2	Ancient India up to 650.	 The student will understand the changing sociocultural scenarios of India. The student will become familiar with the foundation & Administration of ancient India 	
			HCT -2.3	History of World (1900- 1970)	1.Students understand the consequences of the World War-I,II and Cold War regarding the present global crises. 2.Analyze the streamline the role of League of Nations.	
			DSE- 2.1	Medieval India (1200-1700)	1.Student will learn and analyse about the transition from historic centuries to the early medieval. 2.The student will become familiar with the foundation & Administration of Medieval India	
			SCT- 2.1	History of India (1757-1857)	1.Students should be to Know about the thoughts of ancient, middle and Modern period 2.It will increase the spirit of healthy Nationalism, Democratic values and secularism among the student	
5.	M.AII	III	HCT -3.1	Maratha History (1600-1818)	 Grasp the details about different sources and various trends in Maratha history. Students will be able to analyse the Marathas policy of expansionism 	
			HCT -3.2	Modern Maharashtra (1818-1990)	1.Students can able to get the Knowledge of Social Movement. 2.Understand various social reform movements and contribution of social reformer in Maharashtra.	

		HCT -3.3	Research Methodology	1.Understand about the Research process in Historical research. 2.Students will be able to examine sources of history.
		DSE- 3.1	Women in Indian History	1. Analyse and compare the customary and legal status of women in Ancient, Medieval and colonial India 2. Student will able to gather knowledge about the society, culture ,religion and political history of ancient India
		GET -3.1	History of India (1858-1964)	1.Identify the strategies of British for Imperial control.
				2.Grasp the details of freedom movement under the Mahatma Gandhi's leadership.
	IV	HCT -4.1	Maratha History (1600-1818)	 Understand the role played by the Marathas in the 18th century polity. Students will be able to understand and assess the contribution of national leaders
		HCT -4.2	Modern Maharashtra (1818-1990)	1.Understand about the Development of Modern Maharashtra. 2.Identify the reforms movements in Maharashtra.
		HCT -4.3	Dissertation	1.Students will be able to dissertation writing skill. 2.Students will be able to viva-vice skill.
		DSE- 4.1	Women in Indian History	1.The student will become familiar with the emergence and spread of Bhakti movement 2.Understand the issues in representing woman in History.
		SCT- 4.1	History of India (1858-1964)	1.Understand various phases of the national movement. 2.It will increase the spirit of healthy Nationalism, Democratic values and secularism among the student.

Department of Geography

Sr.	Course	Sem.	Paper No.	Subject	Course outcomes
No.			•	J	
1	FYBA	I	I	Geomorphology	 The student learns about the knowledge of Geomorphology. The student were understand geomorphological concept and process takes place on the earth surface and within the earth crust. The Student were familiar the knowledge about interior structure of the earth, formation of continent and types of rock. Student understands about endogenetic and exogenetic forces and their effect in the creation of different landforms on the surface of the earth.
		II	II	Human Geography	 The students were known the importance of Human Geography. The students understood the concepts, Theory, population growth and composition, settlement and detailed knowledge of Human Geography. The students were familiar with basic development Human Geography. The students are developed as good environmental conservator
2	SYBA	III	III	Climatology-III	 To make the students familiar with new terms and concept ofclimatology. To know the constituents of atmosphere and its dynamic nature To know the contribution of atmosphere in the making of earth habitable.

		IV	Geography of India-IV	 To synthesize students with various facts of India viz. Physiography, Climate, Soil, Vegetation and Resources To synthesize students with various facts of India viz. Agriculture, Industries, Population, Social and Regionalization of India
	IV	V	Economic Geography-V	 To acquaint the students with economic activities i.e. Agriculture, Manufacturing, Transport, Trade and Services. To acquaint the students with economic activity models.
		VI	Environmental Geography-VI	 □ To acquaint students with concept of environmental geography. • To study the relation between human and environment. □□To introduce thestudents with environmental problems, programmes and policies.

3	ТҮВА	V	VII	Regional Planning and Development-VII	 The students were known the importance of regional planning. The students understood the concepts of region, regionalization, regional planning & development and detailed knowledge of region. □□The students were familiar with indicators of measurement of development. Detail understanding of Growth Pole Model, Center
					place Theory and Growth Foci Model in Indian context.
			VIII	Urban Geography-VIII	 The students were known the importance of urban settlements through urban geography. The students understood the types of urban Settlements, Site and situations. The students were familiar with an idea of relationship between human activities and urban development.
			IX	Population Geography-IX	□□This paper would bring an understanding of population geography along with relevance of demographic data.
		VI	X	Evaluation of Geographical Thought	 Students were able to visualize the basic theme, ideas and approaches of geographic knowledge with relation to historical juncture, varying schools and era of their emergence. Detailed knowledge about the debates in the geographical studies. Understanding of recent trends in Geography.

XI	Political Geography	 Student will understand the history and development of political geography. Get knowledge about evaluation of state and nation. Get knowledge of Geopolitical theories. Investigates problems and disputes of India with the most current research topics in political geography.
XII	Social Geography	 In depth understanding the problems and prospects of society in India. The students are fully aware
I	Map Making and Map Interpretation P-I	about the technological, occupational and migration changes of peoples in India. □□Detailed knowledge about the social categories and their spatial distribution. □□Understanding concepts of social wellbeing, welfare and social problem in India. • In depth understanding the map, concept of scale and projection. • Detailed knowledge about the analysis of landforms and its
		identification. • The students are deeply aware about basic information to the • students about S.O.I. toposheets and I.M.D. weather reports and obtained the skills about map interpretation

			II	Advanced Tools, Techniques (Computer, Remote Sensing, GIS, GPS) & Field Work P-II	 In depth understanding the importance of field work and advanced Techniques in Geography. The students are trained to implement modern tool and techniques in Geography. The students are deeply aware about the basics and trained in instrumental survey. The students are deeply familiar with computer, GIS, GPS and Remote Sensing.
1	M.A.I	I	I	Geomorphology I	1) To familiarize the students with certain fundamental Geomorphological concepts interior of the Earth, mountain building theories and movement of the Earth.
	M.A.I	I	II	Climatology I	1) To acquaint the student with weather phenomena, pressure belts and winds, air masses, atmospheric disturbances.
	M.A.I	I	III	Oceanography and Geohydrology	1) To know many acts of oceans such as properties of sea water, water circulation, structure of ocean basin, evolution of oceans, characteristics of marine environments.

	M.A.I	I	IV	Economic Geography	 To acquaint the students with the nature and scope of Economic geography, basic economic process and economic activities. To familiarize the students with the principles of industrial location and industrial theories. To acquaint the students with the resources, transportation, connectivity and trade.
	M.A.I	I	I	Representation of landform and topographical map	To familiarized the students the identification of different landforms on the topographical maps.
	M.A.I	I	II	Study of weather maps	1) To understand the method of collection and analysis of the climatic data and interpret the same.
	M.A.I	I	III	Analysis of climatic data	1) To understand the student with the interpretation and construction of climatic graphs and diagram.
	M.A.I	I	IV	Analysis of socioeconomic data	To familiarize the students various techniques of analysis of socio economic data.
2	M.A.I	II	V	Geomorphology	1) To acquaint the students
				II	with the theories of evolution of continents and ocean basin. 2) To familiarize the students with the concept of erosion and applied geomorphology.

M	.A.I	II	VI	Climatology II	2)	To provide an understand of classification of climate and climate regions. To acquaint the students with the climate and clothing, climatic problem.
M	.A.I	II	VII	Population geography	2)	To understand the students with the nature, scope of population geography and sources of population data, population distribution and composition. To acquaint the students with fertility and mortality, population growth theory, population and recourses.
M	.A.I	II	VIII	Regional geography of India	2)	To understand the students India in terms of various regional divisions, their important characteristics. To acquaint the student with agriculture and industries in India.
M	.A.I	II	V	Study of landforms analysis techniques	1) 2)	To identify the different landforms on the topographical maps. To identify the different drainage patterns and types o slopes.
M	.A.I	II	VI	Statistical techniques in geography I	1) 7	To introduce some basic statistical techniques to the students to be applied to various themes in geography.

	M.A.I	II	VIII	Statistical techniques in geography II Representation of	1) To introduce the relative measures and co-efficient of correlation techniques to the students to be applied to various theme in geography. 1) To understand the
	171.71.1		VIII	Socio-Economic data II	students various cartographic techniques of analysis of socio-economic data
	M.A.I	II	IX	Geomorphology II	 3) To acquaint the students with the theories of evolution of continents and ocean basin. 4) To familiarize the students with the concept of erosion and applied geomorphology.
3	M.A.II	III	X	Agricultural geography	1) To familiarize the students with concept origin and development of agriculture: and to examine the role of agricultural determinants. The course further aims to make familiarize the students with the application of various theories, models, agricultural system and productivity. 2) To reexamine green revolution in India, contemporary issues and agricultural problems in solapur district.
	M.A.II	III	XI	Settlement geography	1) To familiarize the students with conceptual, theoretical and empirical development in settlement studies in geography 2)To provides an idea to the students about the national issues of settlements

M.A.II	III	XII	Biography geography	1)To introduce the students the concept of the biography and it's interpretation 2)To introduce the students the
M.A.II	III	XIII	Cultural	climate ,physical environment and their interaction with the living organisms 3) To introduce the student with the living and nonliving environments and their interaction with the special reference to India 4)To make aware about conservation of biodiversity and biotic resources 1)To understand diversity of
			geography	culture in the world as well as in India 2) To comprehend the diffusion of various ethnic traits and religions. 3) To understand the relationship between culture and pattern of living and economic development
M.A.II	III	IX	Quantitative techniques in Economic geography	1)To understand the students to the quantitative techniques in agricultural geography 2)To acquaint the students to the quantitative techniques applied in marketing geography
M.A.II	III	X	Introduction to computer	 To understand the terms, concepts involved in computer To familiarize the student s with internet ,browser and web page

	M.A.II	III	XI	Applications of Computer in geography	 To families with geographical data and data structure To acquaint the students to the computer cartography
	M.A.II	III	XII	Quantitative techniques in population and settlement	To understand the student s to the quantitative techniques in population geography
				geography	2) To acquaint the student to the quantitative technique applied in settlement geography
4	M.A.II	IV	XIII	Regional planning and development in India	1) To understand and evaluate the concept of region in geography 2) To understand the role and relevance of region in regional planning 3) To identify the causes of regional differences in development ,perspectives and policy imperatives 4) To understand the problems of regional development
	M.A.II	IV	XIV	Development of modern geography	1) To introduce the students to the philosophical and methodological foundations of the subject and it's place in the world of knowledge 2) To familiarize student with the major land marked in development of geographic thought at different periods of time.

M.A.II	IV	XV	Political geography	To understand the basic concepts in political geography To enhance awareness o Multi-dimensional nature of geo-political space To make acquaint the students with nature of geographical factors influencing the geopolitical situations in India and world
M.A.II	IV	XVI	Geography of Tourism	 Acquiring the knowledge of different tourist places in the world To understand emerging developing tourism
				industry 3) To understand the scope and role of tourism in world as well as Indian Economy 4) To familiarize students with tourism industry 5) Encouraging the students to involve in tourism industry
M.A.II	IV	XIII	Introduction to remote sensing GIS	 Make students familiar with concept of Remote sensing and its use in present Geographic studies To give detailed knowledge about aerial photography Make students familiar with concept of Geographical Information System

M.A.II	IV	XIV	Application Remote sensing	1)	Make students familiar with concept of Remoter sensing and its use in present geographic studies To give detailed
				_,	knowledge about aerial photography
				3)	Make student familiar with concept of geographical information system
M.A.II	IV	XV	Research Methodology a project report	1)	Student will explain field work, techniques of data collection and its presentation
				2)	Student s will describe importance of sampling in research hand skill of report writing
				3)	Students will express knowledge about format of project report

Department of Physical Education

Sr. No	Course Name	Semester	Paper No	Paper Name	Subject Outcomes
1	B.A.I	I	I	Principles of Physical Education	-To understand meaning, need and importance of physical education To understand the Growth and development.
		II	II	Principles of Physical Education	-To understand the body system and play theory -To understand the aim and objectives of physical education
2	B.A.II	III	III	History of Physical Education	-To acquire knowledge about Ancient Olympic movement -To acquire knowledge about Different Institution for training in Physical Education in India

		IV	IV V	Organization & Administration in Physical Education & Sports History of Physical Education	-To understand the meaning, importance and scope of organization, administration and sports management in physical education To understand office Management, Record, Register & Budget. -To acquire knowledge about Modern Olympic movement -To acquire knowledge about Different Institution for training in Physical Education in
			VI	Organization & Administration in Physical Education & Sports	India -To understand the meaning, importance and scope of organization, administration and sports management in physical education To understand office Management, Record, Register & Budget.
3	B.A.II I	V	VII	Health Education	- Health education strives to provide accurate and relevant information about various health topics. knowledge and understanding of health issues, including factors that contribute to good health and those that can lead to illness or disease. -The ultimate goal of health education is to influence positive health behaviors. This might include encouraging individuals to adopt healthier eating habits, engage in regular physical activity, practice safe sex, avoid tobacco and substance use, and take preventive measures to reduce the risk of various diseases.
			VIII	Rhythms and Recreation in Physical Education	-Incorporating a variety of rhythmic activities and recreational games into physical education curricula can lead to a well-rounded set of outcomes that benefit students physically, mentally, and socially
			IX	Applied Yoga	-The combination of physical movement, breath control, and meditation in yoga can have a calming effect on the nervous system, helping to reduce stress and anxiety.

	X	Anatomy Physiology and Physiology Of Exercise	-knowledge of the human body's structure and function to applications in healthcare, sports, research, and the development of medical interventions. -It seems like your question is a bit unclear. If
		7.5	you're asking about the outcomes of maintaining a healthy diet and good hygiene practices, a be happy to provide some information
VI	XII	Health Education	-Health education aims to boost individuals' confidence in their ability to make healthy choices and manage their own health. When people feel empowered to take control of their well-being, they are more likely to engage in health-promoting behaviors. - Effective health education programs can lead to measurable behavioral changes. For instance, participants might start eating more fruits and vegetables, exercising regularly, or using seat belts consistently after receiving relevant education.
	XIII	Rhythms and Recreation in Physical Education	-Recreation helping students manage stress and anxiety. Recreation also provides an outlet for relaxation and enjoyment.
	XIV	Applied Yoga	-Yoga involves a range of stretching and poses that can gradually increase flexibility and range of motion in your joints and muscles.
	XV	Anatomy Physiology and Physiology Of Exercise	-Knowledge of exercise physiology helps in designing personalized and effective training programs that target specific fitness goals.
	XVI	diet and Hygiene	-Both a healthy diet and good hygiene practices play crucial roles in maintaining your overall health and well-beingThey are interconnected and contribute to a higher quality of life and a reduced risk of various health issues.

Department of Psychology

Sr. No	Course Name	Sem. No.	Paper No.	Paper Name	Course Outcome
1	B.A.I	I	I	Introduction to Psychology	 Students can apply the psychological principles in their real life situations and to learn more effectively about life span development. Students to develop better physical, social, cognitive and personality perspectives. Students opting for competitive examinations are benefited
		II	II	Fundamentals of Psychology	 Students can apply the psychological principles in their real life situations and to learn more effectively about life span development. Students to develop better physical, social, cognitive and personality perspectives. Students opting for competitive examinations are benefited.
2	B.A.II	III	III	Psychology of Adolescent and early Adulthood	To students able to familiarize with the basic developmental process of Adolescence to Early Adulthood. 2. Students understand with the knowledge of physical, Cognitive, Social and Personality development to the relating Adolescence and Early Adulthood stages of life
			IV	Psychology of Adjustment	Students able to understand Psychological adjustment to modern life. 2) Students learn adjustment in various life situations in 21 Century
		IV	V	Psychology of Middle and Late Adulthood	Student know the basic developmental process of middle and late adulthood 2) Students learn knowledge of physical, cognitive social and personality development middle and late adulthood.
			VI	Psychology of Modern Life	 Students Learn Psychological applications in modern life. Student Know the Presses of Psychological interpersonal, intimate relationship with Health and work.
	IDS	III	IDS	Modern Logic (IDS) Propositional Logic	 Students will be able to examine Propositional Logic Understand various Modern Logic & symbolic logic
		IV	IDS	Modern Logic (IDS) Predicate Logic	Students will be able to examine Predicate Logic Understand various Modern Logic & symbolic logic.

B.A.I	I	I	Outlines of	To acceptance of self and others with tolerance and	
			Indian	understanding.	

				philosophy	II) To inspire the student to confront the philosophical problems implicit in the experience of self, others and the universe, together with the question of their relations to ultimate transcendence (God and immortality) III) Clarity and coherence in explaining philosophical basic concepts and theories. IV) Ability to criticize assumptions and arguments.
		I	II	Outlines of Indian philosophy	To acceptance of self and others with tolerance and understanding. II) To inspire the student to confront the philosophical problems implicit in the experience of self, others and the universe, together with the question of their relations to ultimate transcendence (God and immortality) III) Clarity and coherence in explaining philosophical basic concepts and theories. IV) Ability to criticize assumptions and arguments.
	B.A.II	III	III	Indian Ethics	i) To acquaint the students with the Indian and Western perspectives on good life. ii) To create an awareness about philosophical significance of some of the contemporary problems/issues.
		III	IV	Ancient Greek philosophy	 i) To acquaint the students with the Indian and Western perspectives on good life. ii) To create an awareness about philosophical significance of some of the contemporary problems/issues.
		IV	V	Western Ethics)To acquaint the students with the Indian and Western perspectives on good life. ii) To create an awareness about philosophical significance of some of the contemporary problems/issues
		IV	VI	Modern Western philosophy	 i) To acquaint the students with the Indian and Western perspectives on good life. ii) To create an awareness about philosophical significance of some of the contemporary problems/issues.

Department of Music

Sr. No.	Course Name	Semester	Paper No.	Paper Name	Subject Outcomes
1	B.A.I	I	Ĭ	-	 Introduction to the basic Principles of Music as sound, rhythm. Introduction to classical ragas, taalas. Introduction to the life sketch of Pt. V. N. Bhatkhande.
		II	II	-	 Introduction to the basic Principles of Music as sound, rhythm. Introduction to classical ragas, taalas. Introduction to the life sketch of Pt. V. D. Paluskar.
2	B.A.II	III	III	-	 The three aspects of Naad. Musical forms as classical and light classical. Ragas and talas. Introduction to the life sketch of Swami Haridas
			IV	-	 The three aspects of Naad. Musical forms as classical and light classical. Ragas and talas. Introduction to the life sketch of Tansen
		IV	V	-	 The three aspects of Naad. Musical forms as classical and light classical. Ragas and talas. Introduction to Musical forms life sketch of Kishori Amonkar
			VI	_	 The three aspects of Naad. Musical forms as classical and light classical. Ragas and talas. Introduction to the life sketch of Lata Mangeshkar
3	B.A.III	V	VII	-	 Development of musical abilities. History of Indian Music Ragas and talas

	VIII	-	 Understanding the importance of music. 2) Introduction to Smruti, Gram, Murchana etc. Ragas and talas
	IX	-	1) Loksangeet
			2) Ragas and talas
	X	-	1) Life sketch of Pt. Bhimsen Joshi, Pt. Ravi Shankar
	XI	-	 Granth and its contribution to music. Ragas and talas
VI	XII	-	 Karnatic music. Ragas and talas - practical.
	XIII	-	 Western music. Ragas and talas - practical.
	XIV	-	 Prasar Madhyame – T.V., Radio, Internet, Computer etc. Ragas and talas - practical.
	XV	-	1) Musical gharani and its contribution. 2) Ragas and talas - PPT presentation.
	XVI	-	 History of Bhakti sangeet. Ragas and talas - Concert Paper.

Department of Chemistry

Sr. No.	Course	Semester	Paper No	Paper Name	Course Outcome
		I	I	Physical Chemistry	Students are expected to learn about - i) Understanding and significance of rates of Chemical Reactions ii) Understanding to second Law of Thermodynamics and Carnot's cycle etc.
1.	B.Sc I		II	Inorganic Chemistry	Students are expected to understand about- i) The atomic structure and periodic properties of elements, types of chemical bonding ii) Basic knowledge about VBT and MOT as well as key knowledge of Ionic bonding and crystal structure
			III	Organic Chemistry	Students are expected to - i) To able to think and predict the possible mechanism of various critical organic reactions. ii) Able to imagine 3D structure of organic molecules. iii) Understand the basics of bonding and able to draw correct structure of any organic molecule and comment on its stability
		II	IV	Analytical Chemistry	i) Understand the basic elements present in the organic compounds also able to understand the qualitative analysis methods of C, H, N, S and halogen ii) Easily understand the basic principle and classification of chromatography and also able to know paper chromatography and its applications.
2.	B.Sc II	III	V	Organic Chemistry	Students can get to know about - i) various spectroscopic methods

				1 11.11441
				and knowledge about the
				stereochemistry
				ii) Various synthetic approaches
				for Alcohols, Phenols,
				Aldehydes, Ketones.
		VI	Inorganic Chemistry	Students can get to know
				about -
				i) Knowledge of Co-ordination
				Chemistry, complex formation,
				Werner's Theory, concept of
				chelation etc. ii) Lewis concept of
				Acid and
				Bases, HSAB concept, Pearson's
				concept, study of <i>d-block</i>
				elements etc.
		VII	Physical Chemistry	Students can get to know
				about -
				i) Various Laws of
				thermodynamics, study of
				electrochemical reactions,
				terms involved in
	IV			
	1 V			electrochemistry. ii) Chemistry
				of solid state substances,
				distributions Law, and related
				numerical problems
		VIII	Analytical &	Students can get to know
			Industrial Inorganic	about-
			Chemistry	i) Details knowledge
				of volumetric and
				gravimetric analysis,
				various terms involved in
				volumetric analysis etc.
				ii) Knowledge of synthesis
				of industrially important
				heavy chemicals,
				metallurgy meaning, steps in
				metallurgy etc.
		AECC	Business English	Students can get-
				i) Basic concept of English
				communication, grammatical
				correction in sentence
				construction, speaking of
				English, improvement in English
1		1		speaking through syllabi

3.	B.ScIII	V	DSE1A	Physical Chemistry	Students can get to know about- i) Introduction to Quantum mechanics, Gibb's phase rule, phase diagram etc. ii) Basic understanding of EMF, reduction potentials, oxidation potentials, knowledge about various electrode and photochemistry etc.
			DSE- 2A	Inorganic Chemistry	Students can get to know about- i) Bonding in complexes, detail knowledge of CFT, MOT and their applications in complex study ii) Basic concept of Nuclear Chemistry, theory of catalysis, and details of fertilizers and their role in plant growth etc.
			DSE- 3A	Organic Chemistry	Students can get to know about- i) Detail study of various Name reactions, knowledge of organic synthesis. ii)Detail knowledge of various spectroscopic methods such as mass, NMR, IR etc.
			DSE- 1B	Physical Chemistry	Students can get to know about- i) Types of Solutions, various spectroscopies such as Raman also vibrational and rotation study of molecules. ii) Detail study of chemical kinetics with examples and thermodynamics etc.

		VI	DSE2B	Inorganic Chemistry	Students can get to know about- i) Introduction and study of Ffblock elements, concept of metal and semiconductor and their applications. ii) Introduction and detail study of corrosion and passivity and also the knowledge of metal carbonyl involed structural chemistry etc.
			DSE-	Organic Chemistry	Students can get to know
			3В		about- i) Study of various Heterocyclic Compounds, carbohydrates etc ii) Introduction to Hormones and Vitamins, and also the study of various Pharmaceuticals, Agrochemicals etc.
1	M.Sc. I	I	DSC-1	Physical Chemistry-I	 Thorough knowledge of macroscopic as well as microscopic system. Understand the idea of wave function. Applications to conjugated systems, zeropoint energy and quantum tunneling. Learn to calculate excess thermodynamic properties.
2			DSC-2	Organic Chemistry-I	 Understand the reactions and mechanisms with knowledge of stereochemistry. Study the stability, structure and reactions of reactive intermediate.

3		DSE-1	A.Inorganic Chemistry-I	 Students learn chemistry of transition element. LearnVSEPR theory and properties of semiconductors with applications. Students should know radioactive decay and techniques like GM counter, tracer technique. Aware about applications of radioisotope.
4		RM	Research Methodology	Student learn basic concept of referencing.Able to understand data
				interpretation
				interpretation. Aware about concept of plagiarism and selfplagiarism Students will understand the principle of NMR spectroscopy and analysis of spectral data.
			Practicals	
		DSC- 1P	Practical-I	☐ Students learn to apply theoretical knowledge for study kinetics phenomenon, determination of radius, as well as adsorption. ☐ Students getting skill to handle instruments like Conductivity meter, Refractometer, Potentiometer and pH meter.
		DSC- 2P	Practical-II	Students are made aware of safety techniques and handling of chemicals.

					 □ In qualitative analysis students getting skillful hand in separation and identification of two component mixture. □ Students learn vacuum and steam distillation technique.
			DSE- 1P	Practical-III	☐ In ore and alloy analysis student getting tremendous knowledge about oxidation and reduction phenomenon. ☐ Greener approach in preparation and purification of inorganic compounds.
1	M.Sc. I	II	DSC-3	Physical Chemistry-II	☐ Students learn photochemical reaction with phenomenon like fluorescence and phosphorescence. ☐ Students learn evaluation of mean activity coefficients of ions from E.M.F. data. ☐ Study fractional and higher order kinetics. ☐ Study kinetics of polymerization and determination of molecular weight from different methods.
2			DSC-4	Organic Chemistry- II	☐ Student confronted with oxidation and reduction reactions using

					Learn the Electrophilic and Nucleophilic substitution reactions of aromatic compound.
3		DSE-2	Inorganic Chemistry-II		Learn properties of transition and inner transition elements. Learn about extraction and applications of metals. Getting awareness about role of inorganic chemistry in biological processes at inter and intracellular level.
4		OJT	OJT/In-house Project/ Internship/ Apprenticeship		Students get awareness about efficiency in specific industries. Students aware about adequate knowledge about industrial processes.
				1	
			Practicals		

			Practicals		
		DSC- 3P	Practical IV		Understand kinetics of reaction by differential methods.
					Students getting skill to handle instruments like Polarimeter, Refractometer, and Potentiometer to see solute and solvent behavior in aqueous phenomenon.
		DSC- 4P	Practical V		Learn one and two stage preparations.
I	I		Į.	ļ	propurations

					Students are trained to different purification techniques in organic chemistry like recrystallization, distillation, steam distillation and extraction. Students learn to keep work-up procedure more eco-friendly.
			DSE- 2P	Practical VI	Students getting awareness of green chemistry and role of green chemistry in pollution reduction. Apply greener approach while ore and alloy analysis. Learn to determine purity from prepared inorganic compound.
				M.Sc. II	
1	M.Sc. II (Analytical Chmistry)	III	HCT- 3.1	Advanced Separation Techniques	Students confronted with advanced chromatographic techniques. Learn dialysis and
					filtration methods and applications. Students getting enough knowledge about solvent extraction processes and role of equilibrium for solvation.
2			HCT- 3.2	Instrumental Methods of Analysis-I	Students learn thermal techniques like TGA, DTA and DSC. Getting awareness about radio analytical techniques.

			Getting knowledge about titration methods like radiometric titration, High frequency titration, amperometric titration, electro gravimetric titrations.
3	SCT- 3.1	Applied Analytical Chemistry	☐ Student getting awareness about analysis of agricultural feeds, soil as well as fertilizers and pesticides. ☐ Students confronted with key role of chemistry in analysis of mineral, ore and alloy as well as cosmetic product analysis
4	OET- 3.1	Analytical Spectroscopy	 □ Understand various spectroscopic methods for structure determination. □ Explain instrumentations and methodology in spectroscopy like Raman spectroscopy, Mossbauer spectroscopy. □ Students confronted with electron spin resonance techniques like SEM, STM, and AFM
		Seminar/ Tutorial/Industrial Visit / Field Tour	☐ Seminaractivity increases the presentation and discussion skills in students. ☐ Helps to improve communication skill.
		Practicals	
	HCP- 3.1	Physical Analytical Chemistry	☐ Learn method to prepare solutions at milimolal and ppm scale

					Students getting skill to handle instruments like spectrophotometer, colorimeter, and pH meter.
			HCP- 3.2	Inorganic Analytical Chemistry	Confronted with laboratory procedures like estimation of inorganic content from fertilizers and dairy products. Learn application of electrochemistry by estimating dissociation constant potentiometrically
			SCP- 3.1	Organic Analytical Chemistry	The course includes synthesis of some derivatives and organic compounds, which will help them while working in research laboratory in future. Analysis of drugs, chili powder, and moisture content determination from food sample
			OEP- 3.1	Spectral Problems	Learn to apply theoretical knowledge of spectroscopic techniques like IR, NMR, ¹³ C-NMR, Mass spectrometry etc. Learn to interpret data of thermogram, differential
					thermogram and DSC thermogram.
1	M.Sc. II (Analytical Chmistry)	IV	HCT- 4.1	Advanced Analytical Techniques	Confronted with hyphenated techniques like GC-MS, LC-MS and various applications.

			 Learn technology used in automated system and flow injection analysis. Able to solve numerical problems on chromatography.
2	HCT- 4.2	Instrumental Methods of Analysis-II	☐ Students getting thorough knowledge about X-ray methods, Nephelometry, turbidometry, flame photometry and emission spectroscopy. ☐ Learn to analyze surface characterization by spectroscopy.
	HCT- 4.3	Biochemical and Food Analysis	 □ Understand various terms in food analysis techniques and methods, forensicscience and drug substances. □ Able to solve numerical problems on analysis food and drug substances. □ Learn to analyze drug samples to check out for impurities and contaminants.
4	SCT- 4.2	Pharmaceutical Analysis	 □ Learn theory to estimate moisture from biological sample by using karlfischertitrator. □ Awareness about source of impurities in pharmaceutical materials. □ Learn standardization and quality control
			methods of drug to maintain standard value. understand various terms in pharmaceutical raw

				material and finished productanalysis
		Seminar/ Tutorial/Industrial Visit / Field Tour		Seminar activity increases the presentation and discussion skills in students. Helps to improve communication skill.
	HCP- 4.1	Physical Analytical Chemistry		Maintain proper record of analytical data in notebook Learn method to prepare solutions at milimolal and ppm scale.
	HCP- 4.2	Inorganic Analytical Chemistry		To describe basic principles techniques / methods of ore analysis, alloy analysis. Determine the capacity of cation and anion exchange resin.
	HCP- 4.3	Organic Analytical Chemistry		Learn techniques to estimate and determinate biological component from food and beverages. Students carried out different purification techniques in organic samples like recrystallization, distillation, steam distillation and extraction.
	SCP- 4.1/4.2	Project Work/ In plant Training	0	Students getting awareness about research field. Insight in to referencing and literature review.

M.Sc. II (Organic Chmistry- III)

1	M.Sc. II	III	НСТ-	Advanced Organic		Understand various
	(Organic		3.1	Chemistry-I		methods for determining
	Chmistry)					reaction mechanism.
						Learn various oxidizing
						and reducing reagents Name reactions with
					Ц	applications
2			НСТ-	Chemistry of		Understand the
			3.2	Bioactive		stereochemistry,
				Heterocycles		reactivity and conformational effects of
						six membered rings.
						Understand the
						stereochemistry, shapes
						of rings other than six membered rings.
3			SCT-	Photochemistry and		Introduction to pericyclic
			3.1	Pericyclic Reactions		and photochemical reactions.
				reactions		Understanding of how
						light energy influences
						chemical reactions.
						Students will aware of principles of chemical
						reactions including
						cycloadditions.
4			OET-	Applied Organic		Learn the basics of
			3.1	Chemistry		carbohydrates, its physical properties and
						application.
						Learn Concept of
						supramolecular
						chemistry Application of
						supramolecular catalysis.
				Practical		
			HCP-	Organic Ternary		In qualitative analysis
			3.1	mixtures		students getting skillful
						hand in separation and identification of three
						component mixture.
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					Understand the separation technique of ternary mixture and the analysis of separated components. Students might explore principles of extractions of ternary mixtures.
			HCP- 3.2	Organic Preparations	To provide laboratory experience to the students by performing experiments based on topics taught in theory. Knowledge to build up small scale industry for developing various products.
			SCP- 3.1	Spectral analysis	Learn to apply theoretical knowledge of spectroscopic techniques like IR, NMR,13C-NMR, Mass spectrometry etc. Learn and become proficient in interpretation of spectral data.
			OEP- 3.1	Column Chromatography	Students confronted with advanced column chromatographic techniques. Students will aware factors affecting on retention time and selectivity.
			OEP- 3.2	Review Work	
1	M.Sc. II (Organic Chmistry)	IV	HCT- 4.1	Advanced Organic Chemistry-II	Students aware about protecting and deprotecting concept in organic synthesis.

2	HC 4.2		rganic 🛮	Study asymmetric synthesis of chiral compound. Students get proficiency to tackle multicomponent reactions. Aware about applications of metal-organic framework.
3	HC 4.3	,		Understand various extraction techniques for isolation of natural product. Learn purification of natural product and its characterization by different spectroscopic methods.
4	SC 4.1	T- Medicinal Chemistry		Confronted with various drug used in medicinal chemistry. Students gain skills in rational drug design Getting awareness about drug interactions with biological system.
		Practical		
	HC 4.1	P- Organic S	ynthesis	Understand different name reactions using green method. Learn monitoring of reactions, purification and characterization of products.
	HC 4.2		nemistry	Student getting practical techniques to isolate constituents from natural sources. Understanding the principles behind

			choosing appropriate solvents.
	HCP- 4.3	Project work/ In plant training	 Students getting awareness about research field. Insight in to referencing and literature review.
	SCP408	Pharmaceutical Formulation/ Medicinal chemistry	Confronted with various drug used in medicinal chemistry. Students gain skills in rational drug design Getting awareness about drug interactions with biological system.
	T4	Seminar/ Tutorial/Industrial visit/ field Tour	Seminar activity increases the presentation and discussion skills in students. Helps to improve communication skill.

Department of Microbiology

Sr. No.	Course	Semester	Paper No.	Paper Name	Outcome
1.	B.Sc. I	I		Introduction to Microbiology & Microbial diversity	Have developed good knowledge about the development of the discipline of microbiology & contributions made by various scientists
			II	Cell cytology & Microbial Techniques	Have developed good understanding about the cellular organization and techniques to observe microorganisms
		II	III	Microbial Metabolism & cultivation	1. Developed good understanding of basic biomolecules like DNA, RNA, Proteins, carbohydrates etc. 2. Have learned basic thing necessary to cultivate/grow microorganisms

			IV	Applied Microbiology	Got understanding of various applied branches of microbiology like Air
2	B.Sc. II		V	Bacterial cytology & Physiology	microbiology, Water microbiology Have developed good understanding of bacterial cell structure, various parts/components & their ultra-
		III	VI	Bacterial Genetics	1. Understand genome organization in microrganisms 2. Got good knowledge about basic life related processes like
		IV	VII	Immunology & Medical Microbiology	replication 1.Have developed understanding of Immunity, Antigen, Antibody 2.Got good understanding of pathogen, diseases diagnostic measures/methods
	IV _		VIII	Industrial Microbiology	 Acquired basic knowledge regarding different microbial processes in industries. Understood concept of fermentation
3	B.Sc. III		IX	Virology	 Understood what viruses are and their structure, life cycle Gained good knowledge of various plant & animal viruses
		V	X	Agricultural Microbiology	Have developed basic understanding of role of microorganisms in agricultural processes.
					2. Understood various elemental cycles and their importance
			XI	Immunology	 Developed knowledge about different hypersensitivity types & related diseases Understand concept of Monoclonal antibody
			XII	Industrial Microbiology	 Developed knowledge of different types fermentations Aquired knowledge of various products produced from fermentation process
		VI	XIII	Microbial Genetics	 Understand genetic organization in microbes Able to understand three basic genetic material transfer processes Understood basics of Bioinformatics

Í	1			1 C4-1	
		IVX	Microbial Biochemistry	 Students understood basic concepts involved in biochemistry of microorganisms. Various pathways that are very basic in every living being. 	
		XIV	Clinical Microbiology	 Got good knowledge regarding chemotherapeutic agents, their types & mechanisms of action Understood types of biomedical waste & their disposal 	
		XVI	Environmetal Microbiology	1. Have developed good knowledge regarding different types of environments and habitats 2. Understand importance of BOD/COD 3. Developed practical skills to calculate BOD/COD values	
4. M.Sc. I	I	HCT 1.1	Cytology & Taxonomy of Microorganisms	 Have developed knowledge regarding diversity of organisms & need of taxonomy. Learned about various criterion used in taxonomy Aquired good knowledge of microbial classification 	
			HCT 1.2	Microbial chemistry, Physiology & Enzymology	 Understood basic biological chemistry of organisms Learned about enzymes, their structure & their role in metabolic processes.
		HCT 1.3	Recent trends in Virology	Understood Virus, their structure, various techniques for their detection Understood recent developments	
1				in the field of virology	
		SCT 1.1	Research Methodology & Scientific writing	1. Aquired knowledge about research, its planning & execution 2. Learned basic concepts of research, types of scientific documents & how to write scientific papers	
	II	HCT 2.1	Microbial Genetics	1. Acquired knowledge of gene, their expression and regulation 2. Understood concept of Operon	
		HCT 2.2	Microbial Ecology & Diversity	Good understanding of microbial diversity Understood microbial interactions with ecosystem	
		SCT 2.2	Medical Microbiology	Good knowledge of normal flora of human body Understood components of Immune system	
	M.Sc. I		XIV XVI XVI XVI XVI XVI	XIV Clinical Microbiology XVI Environmetal Microbiology M.Sc. I I HCT Cytology & Taxonomy of Microorganisms HCT Microbial chemistry, Physiology & Enzymology HCT 1.3 Recent trends in Virology SCT Research Methodology & Scientific writing II HCT 2.1 Microbial Genetics HCT 2.1 Microbial Ecology & Diversity SCT Medical Microbiology	

			OET 2.1	Bioinformatics & Biostatistics	 Have acquired knowledge of various databases & basic tools used in bioinformatics. Able to search literature data for their project work Understood basic concepts of statistics
5.	M.Sc.	III	HCT 3.1	Molecular Biology & Genetic Engineering	 Understood biology at molecular level. Aquired knowledge of various tools used in GE Understood the process of making rDNA
			HCT 3.2	Bioprocess Technology & Fermentation Technology	 Have learned various biological processes & their manipulation for the human benefits. Understood importance of microorganisms in fermenting various products
			SCT 3.3A	Immunology & Immunotechnology	Understood Immunity, Immune system & Immune responses. 2. Aquired various basic immunological techniques.
			OET 3.4A	Agricultural Microbiology	Developed understanding of multifarious roles of microorganisms in soil, in association with plants.
		IV	HCT 4.1	Pharmaceutical Microbiology	Aquired knowledge of antimicrobial agents, their nature & mechanism of action Acquired skills for testing pharmaceutical products for their efficiency & safety
			HCT 4.2	Food & Dairy Microbiology	Have developed role of microbes in making & spoilage of foods. Acquired knowledge of various processes of dairy industries & role of microbes in making dairy products
		HCT 4.3		Principles of Bioinstrumentation & Techniques	 Developed understanding of various techniques Understood principles of various instruments
			SCT 4.1	Healthcare & Diagnostic Microbiology	1. Have acquired good understanding of practical aspects of collection of clinical samples, their transport 2. Good understanding of antibiotic sensitivity

DEPARTMENT OF PHYSICS

Sr. No.	COURSE	SEMISTER	PAPER NO.	PAPER NAME	COURSE OUTCOMES
1	B.ScI	SEM-I	PAPER NO-I	MECHANICS AND PROPERTIES OF MATTER	 Understanding the concept of Moment of Inertia and applying them in calculations of the moment of inertia of various systems. Understand the physics and mathematics of oscillations and to solve the equations of motion for simple harmonic and damped oscillators Understand the concepts of energy, work, power, the concepts of conservation of energy and be able to perform calculations using them. Understand the concepts of elasticity and be able to perform calculations using them. Understand the concepts of surface tension and viscosity and be able to perform calculations using them. Understand the concepts of viscosity & fluid dynamics and its application in real life problems. Demonstrate quantitative problem solving skills in all the topics covered.

2	B.ScI	SEM-I	PAPER NO-II	OPTICS	 Understand technical applications of simple optical instruments. Understand and explain the different optical method of testing and measuring of various physical parameters Understand Fermat's principle, explain about different aberrations in lenses and discuss the method to minimize them. Understand the types of eyepieces and construction and working of spectrometer and
					optical bench for determining various optical values. 5. Understand the phenomenon of interference of light and its formation in thin film, Newton's ring, wedge shaped film etc. due to division of amplitude. 6. Explain Schuster method, Distinguish between diffraction and interference patterns, prism and grating spectra 7. Comprehended the basic principle of laser and its parts, the construction and working of He-Ne and Ruby laser. 8. Solve problems using suitable assumptions and formulae as well as able to assess ☐ the results.

3	B.ScI	SEM-II	PAPER NO-III	HEAT AND THERMODYN AMICS	Determination of Coefficient of Viscosity, Thermal Conductivity and Diffusion.
					2. Understand Liquefaction of gases by various methods and Properties of Liquid He-II.
					3. Apply the laws of thermodynamics to formulate the relations necessary to analyze a thermodynamic process.
					4. Analyse the heat engines and calculate thermal efficiency.
					5. Analyze the refrigerators and calculate coefficient of performance.
					6. Understand property 'entropy' and derive some thermo dynamical relations using entropy concept.
4	B.ScI	SEM-II	PAPER NO-	ELECTRICITY	1. Understand the concept of Varying
			IV	,	Current and applying them in charging and
				MAGNETISM	discharging of capacitor and time constant.
				AND BASIC ELECTRONIC S	2. Understand the concept of AC circuits and different AC bridges.
					3. Understand the concepts
					Magnetostatics
		<u> </u>	<u> </u>	<u> </u>	
					and applying then to determine magnetic induction and also understand Ballistic Galvanometer theory and its constants.
					4. Understand the rectifiers specially Bridge rectifier with filters also different wave shaping circuits.
					5. Understand BJT include its output characteristics under CE and CB mode with application of transistor amplifier.

5	B.ScII	SEM-III	PAPER NO-	General Physics and Sound ELECTRONIC	1. Understand the physics and mathematics basic concepts of vector to solve the problems. 2. Understand the concepts of processional motions and various pendulums and its application in real life problems. 3. Understand the concepts of elasticity and be able to perform calculations using them. 4. Understand the concepts of surface tension and viscosity and be able to perform calculations using them. 5. Understand the physics behind in sound and study basic applications of sound instruments.
6	B.SCII	SEWI-III	VI	S	1. Understand the concept of transistor and various constructions like BJT include its output characteristics under CE and CB mode

					with application of transistor amplifier. 2. Understand the concepts of oscillators and its types with applications.
					3. Understand the concept of transistor and constructions like UJT include its output characteristics application of transistor amplifier.
					 4. Understand the physics behind in various instruments and study basic applications of instruments in daily life. 5. Understand the concept of regulator
					power supply and various its types.
7	B.ScII	SEM-IV	PAPER NO- VII	OPTICS	1. Understand technical applications of simple optical instruments and behind various theoretical concepts.
					2. Understand and explain the different optical phenomena of light like interference, diffraction and polarization.
					3. Understand Fermat's principle, explain about different aberrations in lenses and discuss the method to minimize them.
					4. Understand the phenomenon of interference of light and its formation in thin film, Newton's ring, wedge shaped film etc. due to division of amplitude.
					•

					5. Understand the theory of physics behind the fiber optics communication and its
					advantages.
8	B.ScII	SEM-IV	PAPER NO-VIII	MODERN PHYSICS	 Understand the theoretical modern physics concepts and theories like theory of relativity, mass energy relations, and twin paradox Determination of matter waves by physics instruments and study the concept of De-Broglie's hypothesis Understand the laws of Compton effect with experimental verification. Analyze the various nuclear energy models with their principles.

9	B.ScIII	SEM-V	PAPER NO-IX	MATHEMATI CAL PHYSICS & STATISTICAL PHYSCIS	 Determination of vector theorems and introduction to partial differential equation and orthogonal curvilinear coordinates. Understand the basic concepts in statistical physics with classically MB statics. BE and FD statics studied with quantum mechanics To apply the mathematical physics concepts for solving problems of quantum physics.
10	B.ScIII	SEM-V	PAPER NO-X	SOLID STATE PHYSICS	 Understand the structure of solid in atomic level by using some instruments. Determination the various crystal structure by using XRD and study its characteristics. Understand the free electron theory and band theory of solid. Analyze the behavior of solid in external magnetic field and study types of magnetic materials. To study the application of
					superconductors.

11	B.ScIII	SEM-V	PAPER NO-XI	CLASSICAL MECHANICS	 Determination the equations of particles and systems of particles with application of Newton's laws of motions. Understand the Lagranges formulation with Alembert's principles and applications of Lagrange's equations with solving problems. Understand the theory of moving coordinate system and techniques of calculus variation. Understand the concept of coupled oscillations. Analyze the motion of rigid body.
12	B.ScIII	SEM-V	PAPER NO- XII	NUCLEAR PHYSICS	 To study nuclear structure and properties with nuclear reactions. Understand the particles accelerator and nuclear radiation detectors. To study the nuclear energy level and theory of elementary particles.
13	B.ScIII	SEM-V	PAPER NO- XIII	SKILL ENHANCEME NT COURSE	 To study of basic practices of thin film deposition. Understand the various characterizations techniques. To adopt the skill of laboratory safety and disaster management. To study the various energy resources and its impact on environments. To study the various applications of physics in medical field.
14	B.ScIII	SEM-VI	PAPER	ELECTRODY	1.To study the electrostatics and charge

			NO-XIV	NAMICS	particle dynamics.
					 To study time varying fields with its applications as self inductance and mutual inductance. To study the Maxwell's Equations with its physical significance. To study the electromagnetic waves with reflection and refraction.
15	B.ScIII	SEM-VI	PAPER NO- XV	MATERIAL SCINECE	 To study various material and their properties. To study different material likes polymer, ceramics and composite materials with their composition and applications. To study the introduction of nanoscience and nonmaterial's
16	B.ScIII	SEM-VI	PAPER NO- XVI	ATOMIC PHYSICS, MOLECULAR PHYSICS AND QUANTUM MECHANICS	 To study the atomic spectra with alkali metals. Understand the selection rules and intensity rules. To study the anomalous Zeeman effect, paschen Back effect, stark effect with solving their problems. To study the characteristics properties of Raman lines and classical theory of Raman effect. Understand the physical significance of □ and application of Schrödinger's equations and operators.
17	B.ScIII	SEM-VI	PAPER NO- XVII	ELECTRONIC S	 To study block diagram of op-amp its characteristics and applications To study functional block diagram of

					IC555 and its applications. 3. To study the various electronic devices like SCR, Diac, Traic and display devices and its applications. 4. To review of JFET MOSFET devices
1	M.ScI	SEM-I	HCT 1.1	MATHEMA PHYSICS	TICAL 1. Understanding the concept of complex variable and presentation. 2. Understand the analytical functions of complex variables with Cauchy's Integral Theorem. 3. Understand the concepts of operator and matrix analysis. 4. Understand the concepts of ordinary differential equations. 5. Understand Fourier series, Integral transforms and Laplace transform with box and exponential functions.

	HCT 1.2	SOLID STATE PHYSICS	 Understand the structure of solid in atomic level by using some instruments. Determination the various crystal structure by using XRD and study its characteristics. Understand the free electron theory and band theory of solid. Analyze the behavior of solid in external magnetic field and study types of magnetic materials. To study the application of
			superconductors.

	HCT 1.3	ANALOG AND	1. Understand the concept
		DIGITAL	of transistor and various
		ELECTRONICS	constructions like BJT include
			its output characteristics under
			CE and CB mode with
			application of transistor
			amplifier.
			2. Understand the
			concepts of oscillators and its
			types with applications.
			3. Understand the concept
			of transistor and constructions
			like UJT include its output
			characteristics application of
			transistor amplifier.
			4. Understand the physics
			behind in various instruments
			and study basic applications of
			instruments in daily life.
			5. Understand the concept
			of regulator power supply and
			various its types.
	SCT 1.1	CLASSICAL	1. Determination the
		MECHANICS	equations of particles and
			systems of particles with
			application of Newton's laws
			of motions.
			2. Understand the
			Lagrange's formulation with
			D'
			Alembert's principles and
			applications of Lagrange's
			equations with solving
			problems.
			3. Understand the theory
			of moving coordinate system
			and
			unu

		techniques of calculus variation.
		4. Understand the concept of coupled oscillations.5. Analyze the motion of rigid body

2.	M.ScI	SEM-II	HCT 2.1	QUANTUM MECHANICS	1. Understand the physics and mathematics basic concepts of vector to solve the problems.
					2. Understand the concepts of processional motions and various pendulums and its application in real life problems.
					3. Understand the concepts of elasticity and be able to perform calculations using them.
					4. Understand the concepts of surface tension and viscosity and be able to perform calculations using them.
					5. Understand the physics behind in sound and study basic applications of sound instruments.
			HCT 2.2	ELECTRODYNAMI CS	1. To study the electrostatics and charge particle dynamics.
					2. To study time varying fields with its applications as self inductance and mutual inductance.
					3. To study the Maxwell's Equations with its physical significance.
					4. To study the electromagnetic waves with reflection and refraction.

			SCT 2.1	STATISTICAL PHYSICS	 Understand the basic concepts in statistical physics with classically MB statics. To study BE and FD statistics studied with quantum mechanics. To apply the mathematical physics concepts for solving problems of quantum physics.
			OET 2.1	FUNDAMENTALS OF ELECTRONICS	1. To study block diagram of op-amp its characteristics and applications 2. To study functional block diagram of IC555 and its applications. 3. To study the various electronic devices like SCR, Diac, Traic and display devices and its applications. 4. To review of JFET MOSFET devices. 5. To study applications of active and passive devices.
3.	M.ScII	SEM-III	HCT 3.1	SEMICONDUCTOR PHYSICS	 To study the energy bands and charge carrier in semiconductor with Fermi level, electron and holes concentration at equilibrium. To study role of carriers in semiconductor with direct and indirect recombination of electrons and holes with understand Haynes-Shockley experiment.

			3. To understand dynamics of
			charge carriers and lattice, and semiconductor interfaces. 4. To understand semiconductor crystal growth process.
	HCT 3.2	ATOMIC AND MOLECULAR PHYSICS	 To study the atomic spectra with alkali metals. Understand the selection rules and intensity rules. To study the anomalous Zeeman effect, Paschen Back effect, stark effect with solving their problems. To study the characteristics properties of Raman lines and classical theory of Raman effect. Understand the physical significance of □ and application of Schrödinger's equations and operators.

			SCT 3.1 OET 3.1	FUNCTIONAL NANOMATERIALS ENERGY HARVESTING DEVICES	 To understand semiconductor quantum dots, nanotubes and nanowires. To understand polymer nanocomposite, nanofibers and metal oxide frameworks. To study solar cell, fuel cell and piezoelectrics.
4.	M.Sc II	SEM-IV	HCT 4.1	SEMICONDUCTOR DEVICES	 To study MIS structures and MOS FETS with its applications. To study power devices GTO, MOS, SCR, DIACs,
					TRIACs, SUS, IGBT. 3. To study coupled and transferred electron, applications of opto electronics and advanced solid state devices.
			HCT 4.2	NUCLEAR AND PARTICLE PHYSICS	1. To study nuclear structure and properties with nuclear reactions. 2. Understand the particles accelerator and nuclear radiation detectors. 3. To study the nuclear energy level and theory of elementary particles. 4. To study various nuclear models and nuclear reactions. 5. To study particle physics and cosmic rays.

	SCT 4.1	MATERIALS CHARACTERIZATI ON TECHNIQUES	1. To study microscopic techniques I & II with different instruments.
			2. Understand the construction and working of optical, scanning and electron microscopy
			3. Understand the construction and working of transmission electron, scanning tunneling and Atomic force microscopy
			4. To study the x-ray photoelectron spectroscopy, Auger electron spectroscopy, Resonance spectroscopy.
	SCT 4.2	PHYSICS OF NANOMATERIALS	. To study the background of nano-science and nanotechnology.
			2. Understand the band structure and density of states at nanoscale.
			3. Understand the various properties of nanomaterials.
			4. To study growth techniques and characterization tools of nanomaterials.

Department of Botany

Sr.No.	Course	Semester	Paper No.	Paper Name	Course Outcome
1.	B.Sc. I	I	I	Microbiology & Phycology Fungi & Archegoniate	1) Understand the types and diversity in bacteria, viruses and mycoplasma 2) Understand the diversity among Algae. 3) Know the systematic, morphology and structure, of Algae. 4) Understand the useful, harmful activities and industrial applications of Algae 1) Understand General characteristics, Thallus organization, Cell wall composition Nutrition classification 2) Understand General characteristics, Occurrence, Thallus organization, Life cycle of fungi 3) Understand types and economic importance of Lichen 4) Understand types of Micorrhiza and its applications 5) Understand applied aspects of fungi with respect to biotechnology, industry 6) To understand unique characteristic features of archaegoniate. 7) Understand the morphological diversity, classification and economic importance of Bryophytes. 8) Understand the morphological diversity, classification and economic importance of Pteridophytes. 9) Understand the morphological diversity, classification and economic importance of Pteridophytes. 9) Understand the morphological diversity, classification and economic
		II	III	Plant Ecology	importance of Gymnosperm. 1) Understand different climatic and edaphic factors 2) Understand form, Structure classification and characteristics of community. 3) Understand concept, components, pyramids, food chain, energy flow and biogeochemical cycles in Ecosystem 4) Understand process and types of succession 5) Understand adaptations in community 6) Understand types and control measures of various pollution.

			IV	Taxonomy of	1) Understand about importance of
				Angiosperms	taxonomy. 2) With respect to recent knowledge students should know about some angiospermic families and taxonomy. 3) Understand different methods of classification and rules of nomenclature. 4) Understand technique and botanical gardens in India.
2.	2. B.Sc. II	III	V	Plant Anatomy	 Understand the scope & importance of Anatomy. Know various tissue systems. Understand the normal and anomalous secondary growth in plants and their causes. Perform the techniques in anatomy.
			VI	Plant Metabolism	 Understand the concept of ATP synthesis To know about Carbon oxidation with different pathways Understand the properties of Monosaccharides, Oligosaccharides and Polysaccharides. They will learn about the Significance of Carbohydrates. Understand the Properties of saturated fatty acids, and unsaturated fatty acids. Understand lipid metabolism in plants. Understand the Beta Oxidation, Gluconeogenesis and its role in mobilization of fatty acids during germination. They will learn about the
		IV	VII	Plant Physiology	Significance of lipids. 1) Know about Photosynthesis and Nitrogen metabolism and its importance. 2) To understand the plants and plant cells in relation to water. 3) To understand mineral nutrients and its role. 4) Learn about the movement of sap and absorption of water in the plant.

1			VIII	Embryology of	1) To know reproductive
			V 111		development in angiospermic plants.
				Angiosperms	2) To understand anther and pollen
					biology.
					3) To understand ovule
	1 1			<u> </u>	1 /
					4) To know the process of
					pollination and fertilization in the
					angiosperm.
					5) To understand embryo
					and endosperm.
3.	B.Sc. III	V	IX	Plant	1) Understand principles of general
					conomy and they can use no
				Systematics	nenclature rules plants.
					2) Understand historical
					development of taxonomy.
					3) Explain concept of species.
					4) Order sub and super categories
					of
					species according to Linnaeus
					hierarchy.
					5) Discuss the importance of
			V	C	nomenclature rules in botany.
			X	Genetics	1) To understand basic concept of
					Genetics. 2) To know variation in Mendelian
					and Post Mendelian Genetics
					3) To understand sex determination
					and sex linkage
					4) To know the concept of
					population genetics 5) Understand Extra-
					chromosomal inheritance
					6) To know the structural and
					numerical changes in the chromosome.
					7) To know types of mutation,
					molecular basis and mutagens.
					moreonar outle and manageme.
			XI	Molecular	1) Learn the scope and importance of
				Biology	molecular biology.
				Diology	2) Understand the biochemical nature o
					nucleic acids, their role in living
					systems, experimental evidences to
					prove DNA as a genetic material.
					3) Understand the process of synthesis
					of proteins.

	XII	Plant Breeding	 Understand the science of plant breeding. To introduce the student with branch of plant breeding for the survival of human being from starvation. To study the techniques of production of new superior crop verities. Understand the modern strategies applied in Genetics and Plant Breeding to sequence and analyze genomes
VI	XIII	Plant Pathology	 5) Get the detail knowledge about modern strategies applied in Plant Breeding for crop improvement i.e. Mass selection, Pure line Selection and Clonal selection. 6) Know about exploitation of Heterosis, hybrid and variety development and their release through artificial hybridization. 7) Understand the role plants in human welfare. 8) Gain knowledge about various plants of economic use. 9) Know importance of plants & plant products. 1) Understand the scope and importance of Plant Pathology. 2) Know the prevention and control measures of plant diseases and its effect on economy of crops.
	XIV	Plant Biotechnology	1) Understand the fundamentals of Recombinant DNA Technology. 2) Know about the Genetic Engineering. 3) Understand the principle and basic protocols for Plant Tissue Culture. 4) To understand applications of biotechnology in relation to the crop improvement.
	XV	Cell Biology	1) Understand the structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles. 2. Students will understand how these cellular components are used to generate and utilize energy in cells.

	XVI	Biostatistics	1) To know the basic concepts of
			Biostatistics
			2) To understand collection of primary
			and secondary data
			3) To understand calculation of mean,
			mode median and variations
			4) To know probability
			5) To know statistical inference with
			respect to 't' test and chi square test

Sr. No.	Course	Sem	Paper No.	Paper Name	Course Outcome
1	M.Sc. I	I	HCT 1.1	Biology and diversity of fungi, bacteria, viruses and lichens	1) Understand General characteristics, Occurrence, Thallus organization, Life cycle of fungi 2) Understand types and economic importance of Lichen 3) Know the prevention and control measures of plant diseases and its effect on economy of crops. 4) Understand the types and diversity in bacteria, viruses and fungi
			HCT 1.2	Biology and diversity of Algae, bryophytes and pteridophytes	 Understand the diversity among Algae. Know the systematic, morphology and structure, of Algae. Understand the useful, harmful activities and industrial applications of Algae. Understand the morphological diversity, classification and economic importance of Bryophytes and pteridophytes.
			HCT 1.3	Plant Ecology	 Understand different climatic and edaphic factors Understand form, Structure classification and characteristics of community. Understand concept, components, pyramids, food chain, energy flow and biogeochemical cycles in Ecosystem Understand process and types of succession

	l			
		SCT 1.1	Taxonomy of angiosperms	1) With respect to recent knowledge students should know about some angiospermic families and taxonomy. 2) To know reproductive development in angiospermic plants. 3) To understand anther and pollen biology. 4) To understand ovule
	II	HCT 2.1	Biology and diversity of gymnosperms and paleobotany	1) Understand the morphological diversity, classification and economic importance of Gymnosperm.
				2) To get information about the types
				of plant that lived during different time period.
		HCT 2.2	Tools and techniques in botany	appropriate statistical methods. 2) Create, select, and apply appropriate techniques, resources, and modern instruments and equipments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological activities of plants with an understanding of the application and limitations. 3) To know probability 4) To know statistical inference with respect to 't' test and chi square test

			HCT 2.3	Cell and molecular biology	1) Learn the scope and importance of molecular biology. 2) Understand the biochemical nature of nucleic acids, their role in living systems, experimental evidences to prove DNA as a genetic material. 3) Understand the process of synthesis of proteins. 4) Understand the Biochemical nature of cell.
			OET 2.1	Advances in plant pathology	1) Understand the scope and importance of Plant Pathology. 2) Know the prevention and control measures of plant diseases and its effect on economy of crops.
2	M.Sc. II	III	HCT 3.1	Plant embryology and Palynology	 To understand anther and pollen biology. To understand ovule To know the process of pollination and fertilization in the angiosperm. 4) To understand embryo and endosperm.
			HCT 3.2	Cytogenetic and crop improvement	To understand basic concept of Genetics. To know variation in Mendelian and Post Mendelian Genetics 3) To understand sex determination and sex linkage To know the concept of population genetics
					5) Understand Extrachromosomal inheritance 6) To know the structural and numerical changes in the chromosome. 7) To know types of mutation, molecular basis and mutagens.
			SCT 3.2	Angiosperm Systematics	 Understand the interrelation between plants and their evolutionary descent. To reconstruct development of plant life. To arrange the taxa into logical hierarchy that permits easy and simple recognition in the basis of similarity.

		OET 3.2	Herbal and drug technology	1) Understand raw material as a source of herbal drugs from cultivation to herbal drug product 2) To know the WHO and ICH guidelines for evaluation of herbal drugs. 3) To know the herbal cosmetics, natural sweeteners, nutraceuticals.
	IV	HCT 4.1	Phytogeography and conservation biology	1) To explain the ranges of plants in terms of their origin, dispersal and evolution. 2) To know about branch of biogeography that is concerned with the geographic distribution of plant species and their influence on earth surface 3) To protect species, their habitat and ecosystems from excessive rates of extension and the erosion of biotic interactions.
		HCT 4.2	Plant tissue culture, green house technology and hydroponics.	1) Understand the principle and basic protocols for Plant Tissue Culture. 2) To understand applications of biotechnology in relation to the crop improvement. 3) To study the hydroponic system to deliver an optimized nutrient solutions to plant root.
		SCT 4.2	Modern trends in angiosperm taxonomy	1) To provide the knowledge of taxonomy is possible with the principles of various disciplines like cytology, genetics, anatomy, physiology, geographical
				distribution, embryology numerical taxonomy. 2) To improve present day knowledge of phylogeny of plants. 3) To develop taxonomic characters this may improve existing system of plant classification.
		OET 4.2	Industrial botany	1) It helps in the area of economic productivity because it I involved in the study of plants and ideal growing techniques 2) It contribute significantly to anthropology, biology, conservation, botany and other fields of science 3) Commercial exploitation of plants by peoples.

Department Geography Zoology

Sr.	Course	Semest	Paper	Paper	Subject Outcomes
No.	Name	er	No	Name	Subject Outcomes
1	B. Sc. I	I	I	Animal	Zoology has tramondays job notantial a) The suggestful
1	D. Sc. 1	1	1	Diversity I	- Zoology has tremendous job potential. a) The successful students will be able to establish research organizations
		II	II	Animal	with the help of agriculture, environment protection and
		11	11		also their own industry for transgenic animals, clinical
			***	Diversity II	pathology, genetic counseling, human karyotyping etc. b)
			III	Comparativ	Scientific Research Organizations. c) Universities in India
				e Anatomy	& aboard.
				of	
				vertebrates	
			VI	Developme	
				ntal	
				Biology of	
				vertebrates	
2	B.Sc.II	III	V	Cell	Zoology has tremendous job potential. The successful
				Biology	students will be able to establish research organizations
			VI	Demograph	with the help of agriculture, environment protection and
				ic Studies	also their own industry for transgenic animals, clinical
		IV	VII	Principles	pathology, genetic counseling, human karyotyping etc.
				of Ecology	Scientific Research Organizations. Universities in India &
			VIII	Fundament	aboard.
				als of	
				Biochemist	
				ry	
3	B.Sc.III	V	IX	DSE-1A-	- Develop an understanding of concepts, mechanisms and
				Molecular	evolutionary significance and relevance of molecular
				Biology	biology in the current scenario. Get well versed in
					recombinant DNA technology which holds application in
					biomedical & genomic science, agriculture, environment
					management, etc. Therefore, a fundamental understanding
					of Molecular Biology will help in career building in all
					these fields. Apply their knowledge in problem solving
					and future course of their career development in higher
					education and research. Get new avenues of joining
					y E
					research in related areas such as therapeutic strategies or
					related□ opportunities in industry.

		X	DSE- 2 A Principles of Genetics	After successfully completing this course, the students will be able to: Understand how DNA encodes genetic information and the function of mRNA and tRNA Apply the principles of Mendelian inheritance. Understand the cause and effect of alterations in chromosome number and structure. Relate the conventional and molecular methods for gene
				manipulation in other□ biological systems. Discuss and analyse the epigenetic modifications and imprinting and its role in diseases.□ Get new avenues of joining research in related areas such as genetic engineering of□ cells, cloning, genetic disorders, human fertility programme, genotoxicity, etc
		XI	DSE- 3A- Endocrinol ogy	- Understand neurohormones and neurosecretions. Learn about hypothalamo and hypapophysial axis. ☐ Understand about different endocrine glands and their disorders. ☐ Understand the mechanism of hormone action.
	VI	XII	DSE 4 A- Wildlife Conservati on & Manageme nt	Students will understand the factors affecting the need to find sustainable practices Students will understand the general principles of ecology as how they related to terrestrial and/or aquatic plant and animal conservation and management. Students will be able to identify species, characteristics, habitat requirements and life cycles of birds, fish and/or wildlife species. Students will be able to evaluate current events and public information related to wildlife conservation and management as being scientifically-based or opinion
		XIII	DSE- 1B- Animal Physiology : Life Sustaining Systems	After successfully completing this course, the students will be able to: Understand the physiology at cellular and system levels. Understand the mechanism and regulation of breathing, oxygen consumption and determination of respiratory quotient. Understand the process of digestion and excretion. Understand the renal physiology Understand the process in haematology Learn the determination of hemoglobin content, blood groups and blood pressure. Understand the process of Physiology of Heart

XIV	DSE- 2B Evolutionar y Biology	Understand the historical development of systematics past to the present. Understand the similarities and differences of different types of data. Understand the uses and limitations of phylogenetic trees. Appreciate the complexities and difficulties of various species concepts. Gain a basic grasp on the rules and philosophy of nomenclature
XV	Animal Behaviour and Chronobiol ogy	- Understand the. Biological Clocks and its importance Understand how Biological Rhythm influence animal behavior□ Understand Social and Sexual Behaviour of animals□ Understand Behaviour Patterns of animals
XV	DSE 4B- Applied Zoology	Students will understands the fisheries Students will learn the sericulture and Lac culture techniques Students will understand the Apiculture techniques Students will learn how to initiate Aquaculture practices. Students can incorporate social information about poultry and dairy

Department Of Mathematics

Mathematics							
Sr. No	Course	Semes ter	Paper No	Paper Name	Course Outcome		
1	B.Sc- I	I	I	ALGEBRA	Understanding the applications of matrices		
					Understanding how they can calculate		
					roots of a complex numbers.		
			II	CALCULUS	Calculate the limit and examine the continuity of a function at point.		
					Explain the properties of		
					threedimensional shapes.		
		TT	TTT	CEOMETRY			
		II	III	GEOMETRY	Learn how to change points and		
					equations in Cartesians to Polar.		
					Understand the Geometry of plane		
					and spheres.		
			IV	DIFFERENTIA	Learn various methods of solving first		
				L EQUATIONS	order and firstdegree differential		
					equations occurring in Physics,		
					Chemistry and Engineering Sciences.		
					Understand the genesis of ordinary		
					differential equation		
2	B.Sc-	III	V	Differential	Find maximum and minimum value		
	II			Calculus	Jacobian of n order and find curvature		
					of any given curve as well as find		
					tangents and normals of any given		
					curve.		
			VI	Laplace	Define Laplace transform inverse		
				Transform	Laplace transform and applications		
		IV	VII	Differential	To solve differential Equation of first		
				Equations	order and of degree higher than the		
				24	first, linear equation of the second		
					order, homogeneous linear equation		
			VIII	Abstract	Apply the theory of groups to number		
			V 111	algebra-I	systems, define group and its		
				aigcuia-i	properties, homomorphism and		
					isomorphism		
3	B.Sc-	V	IX	Algebra – II	Understand the theory of rings and		
	III	, v		Aigeola – II	fields as well as linear algebra		
			X	Complex	Define Analytic Function, Complex		
				Analysis	Differentiation, Cauchy-Rieman		
				•	equation.		
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				Complex Integration, Line
				Integration, Cauchy Integral Formula,
				Power Series, Laurent Series.
		XI	Real Analysis	To understand completeness of set of
				real number, absolute value of real
				number.
				Define series of real number, Cauchy
				root test, D'Alembert's test, Ratio test
				for convergence of series.
		XII	Partial	: Learn to Partial Differential
			Differential	Equation, Formation of Partial
			Equations	Differential Equation, types of partial
			(Elective - A)	differential Equation.
				Lagrange's Method, Charpit's
				Method.
	VI	XIII	Metric Spaces	Define metric spaces
				completeness, compactness and open,
				closed sets
		XIV	Numerical	Define operators, finite difference,
			Analysis	Gauss Interpolation Formula,
				Newton's Interpolation
				Formula(Center, forward, backward)
				Numerical differentiation and
				integration, Maxima and minima of
				tabulated function, Difference
				equation.
		XV	Graph Theory	Able to define the basic concepts of
				graphs, directed graphs, and weighted
				graph
		XVI	Integral	Acquire the knowledge of double
			Calculus	integral beta, gamma function and
			(Elective - A)	improper integral

Department of Electronics

SR. NO	COURSE	SEMISTER	PAPER NO.	PAPER NAME	COURSE OUTCOME		
1	. B.Sc.I	ı	ı	Basic Circuit Theory and Network Analysis	☐ Students will get basic understanding of the subject. ☐ To		
			II	Digital Fundamentals	encourage students to develop approach towards upcoming electronic technologies.		
		II	III	Semiconductor Devices	☐ Students will get hands-on on various circuits and instruments. ☐		
			IV	Digital Electronics	To equip students with adequate fundamental concepts and knowledge base.		
2	2 B.Sc.II	Ш	V	Electronic Circuits	• To equip student with necessary fundamental concepts and knowledge base.		
				VI	Pulse and Switching Circuits	 To develop specific practical skills. 	
		IV	VII	Operational Amplifier and Applications	To encourage student to develop skills for accepting challenges of		
			VII	Digital Techniques and Microprocessor	upcoming technological advancements. To prepare students for demonstrating the acquired knowledge.		

3	B.Sc.III	V	X XI XII	Linear Integrated Circuits and Applications	 To impart training on circuit design, analysis, building and testing. To design the syllabus with specific focus on key Learning Areas. To encourage student to develop skills for accepting challenges of upcoming technological advancements. □To expose the students to onlineshooter certificate courses such as MOOC / SWAYAM/NPTEL, etc.□
		VI	XIII XIV XV XVI	□Power Electronics □Embedded System Design □Electronics Instrumentation □Modern Communication Systems	 To impart training on circuit design, analysis, building and testing. To inculcate awareness among the student to perform the project so find us trial standards, which could also, ensures the interdisciplinary approach. To provide the knowledge of design and implementation of instrumentation of significant preciseness. To expose the students to the industrial environment a on job training and internship may be provided

Department of Economics

Sr.	Course	Semes	Paper	Paper Name	Subject Outcomes
No.	Name	ter	No	T upor T (unit	Subject Outcomes
1	B.A.I	I	I	Indian Economy	-To understand meaning, need and importance of Indian economy To understand the Growth and development.
		II	II	Indian Economy	-To understand the unemployment -To understand the aim and objectives of economy.
2	B.A.II	III	III	Money and Banking	-To acquire knowledge about money -To acquire knowledge about banking system.
			IV	Demographic Studies	-To understand the meaning, importance and scope of demographic studies.-To understand the census.
		IV	V	Public finance	-To acquire knowledge about public finance.-To acquire knowledge about fiscal policy.
			VI	Demographic Studies	-To understand the meaning, importance and scope of demographic studies.
3	B.A. III	V	VII	Micro Economics	- to understand the concept of land labour price monopoly etc.
			VIII	Macro Economics	-to know about the macro level issues in the country.
			IX	History of Economic Thought	-To understand the knowledge of economic thoughts of western economists.
			X	Development Economics	-knowledge of the development concepts.
			XI	Agricultural Economics	To understand Indian agriculture.
		VI	XII	Micro Economics	-to understand the different price, market concepts.
			XIII	Macro Economics	-to know about the trade cycles, monetary policies.etc.
			XIV	History of Economic Thought	-to know about Indian economist thoughts on the economics.
			XV	Development Economics	-Knowledge of hdi,hpi,gem etc.

			XVI	Agricultural Economics	-to understand the problems and solutions on agricultural crises.
1	M.A .I	I& II	I	Micro economic analysis	-To understand meaning, need and importance of land labor,monopoly ,market theories etc.
			II	Economics of growth and development	-To understand the unemployment -To understand the aim and objectives of economy.
			III	Economics of Environment	-To acquire knowledge about money -To acquire knowledge about banking system.
			IV	Industrial Economics	-To understand the meaning, importance and scope of demographic studies.-To understand the census.
			V	Financial institutes and markets	-To acquire knowledge about public finance.-To acquire knowledge about fiscal policy.
2	MA. II	III & IV	VI	Macro Economic analysis	- to understand the concept of money,inflationunemployment,trade cycles etc.
			VII	Public Economics	-to know about the macro level issues in the country of income, expenditure, taxes. budget etc.
			VIII	Research methodology	-To understand the knowledge of research methods data collection, report writing etc.
			IX	Adgricultural development of india	-knowledge of the development concepts of agriculture in india.
			X	International trade and finance	To understand the concepts of trade, trade theories,trademou's.etc.

Department of Sanskrit

Sr	Course	Sem	Paper	Paper Name	Course Outcomes
No					

1	BAI	I & II	I	SanskritVihar	Introduce importance of AayurvedaTointroduce ModernstyleofSanskrit
					To Increase morality in students
2	BAI	I & II	Com	Sanskritmayukh	To introduce Upanishad philosophy Modern Sanskrit they can learn different types of literature
3	BA II	III	III	Prachin Bhartiya Jalshastra	 Student will aware for goodhealth To introduce scientific knowledge In Sanskrit The paper introduces a branch of science Student canknow the technique Of find underground water
4	BAII	III	IV	Karakprakaran	 Student can achieve knowledge
5	BA II	IV	V	Bhagvadgeeta	 Student can achieve valuable Knowledge of Indianphilosophy They can learnt the technique of Mental ,physical and spiritual peace Through yogshastra
6	BA II	IV	VI	Kavyashastra	 To introduce the poetics in Sanskrit Language Introduction of Alankaras Which is important for language