



Shrikrishna Education Society's

SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI

Tq.Omerga, Dist.Osmanabad



1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

1.3.1 Crosscutting related issues Part A

Faculty of Arts

Sr. No	Department	Progra Name	Effect from the Academic year	Document Link
1	English	B.A., B.Com & B. Sc. Ist Year	2022-23	View PDF
		B.A. IInd Year	2014-15	View PDF
		B.A. IIIrd Year	2014-15	View PDF
2	Hindi	B.A., B.Com & B. Sc. Ist Year	2022-23	View PDF
		B.A. IInd Year	2014-15	View PDF
		B.A. IIIrd Year	2015-16	View PDF
3	Marathi	B.A., B.Com & B. Sc. Ist Year	2022-23	View PDF
		B.A. IInd Year	2014-15	View PDF
		B.A. IInd Year Revised	2014-15	View PDF
		B.A. IIIrd Year	2015-16	View PDF
		M.A. Ist Year	2022-23	View PDF
		M.A. Ist Year	2013-14	View PDF
5	History	Ist Year	2022-23	View PDF
		IInd Year	2014-15	View PDF
		IIIrd Year	2015-16	View PDF
		B.A. IIIrd Year	2015-16	View PDF
		M.A. Ist Year	2021-22	View PDF
		M.A. Ist Year	2022-23	View PDF

7	Political Science	B.A. Ist Year	2022-23	View PDF
		B.A. IInd Year	2014-15	View PDF
		B.A. IIIrd Year	2015-16	View PDF
		M.A. I, II Year	2021-22	View PDF

Faculty of Science and Technology

Sr.No	Department	Program	Effect from the Academic year	View PDF
1	Chemistry	B.Sc. Ist Year	2013-14	View PDF
		B.Sc. IInd Year	2014-15	View PDF
		B.Sc. IIIrd Year	2015-16	View PDF
2	Botany	B.Sc. Ist Year	2013-14	View PDF
		B.Sc. IInd Year	2014-15	View PDF
		B.Sc. IIIrd Year	2015-16	View PDF
3	Zoology	B.Sc. Ist Year	2013-14	View PDF
		B.Sc. IInd Year	2014-15	View PDF
		B.Sc. IIIrd Year	2015-16	View PDF
4	Physics	B.Sc. Ist Year	2013-14	View PDF
		B.Sc. IInd Year	2014-15	View PDF
		B.Sc. IIIrd Year	2015-16	View PDF
5	Mathematics	B.Sc. Ist Year	2022-23	View PDF
		B.Sc. IInd Year	2014-15	View PDF
		B.Sc. IIIrd Year	2015-16	View PDF

6	Computer Science	B.Sc. Ist Year	2014-15	View PDF
		B.Sc. IInd Year	2015-16	View PDF
		B.Sc. IIIrd Year	2016-17	View PDF

Table showing the cross cutting related issues

Program	Title of the Course	Cross Cutting				Description
		Professional Ethics	Gender	Human Values	Environment & Sustainability	
B.A/ B.Sc. I st Year	ENG-CO-221 English Com- I	✓		✓		Unit I : The Essence of Democracy
			✓	✓	✓	Unit II : Orpheus and Eurydice
		✓		✓		Unit III : A Tribute to the Buddha
		✓		✓	✓	Unit IV : Spoken English and Broken English
		✓		✓		Unit V : Sir Isaac Newton
		✓	✓	✓	✓	Unit VI : A Prayer for My Daughter
		✓		✓		Unit VII : A Peaters of Life .
		✓		✓		Unit VIII: The Toys
		✓	✓	✓		Unit IX : Sonnet 116- Let me Not to the Marriage of true

						minds.
		✓	✓	✓	✓	Unit X : Night of the Scorpion
		✓			✓	Unit XI : Email Writing
		✓				Unit XII : Job Application with CV
		✓				Unit XIII : News and Report Writing
		✓		✓		Unit XIV : Self Introduction
	Eng-Co-222 English Com- II	✓		✓		Unit I : India's Message to the world
		✓		✓		Unit II : Are the Rich Happy
		✓		✓		Unit III I have a Dream
		✓		✓		Unit IV Going Public
		✓		✓	✓	Unit V Gold from the grave
		✓		✓	✓	Unit VI Stopping the Woods on a snowy evening.
		✓		✓	✓	Unit VII Poem & Serpents
		✓		✓		Unit VIII Strange Meeting
		✓		✓		Unit IX The Ballad of the Landlord

B.A. B.Sc IIInd Year	ENG-Co-133 English (Comp)- III	✓		✓	✓	Unit X The Tiger and the Deer
		✓		✓		Unit X Dialogue writing
		✓		✓		Unit XI Blog Writing
		✓	✓	✓	✓	Unit I : Treamble Fundamental Rights and Fundamental Duties
		✓	✓	✓	✓	Unit II : Memorial Addressed to the Education Commission
		✓	✓	✓	✓	Unit III : The Doll's House
		✓		✓		Unit IV How to Tell a Story ?
		✓		✓	✓	Unit V How much land does a man need ?
		✓		✓	✓	Unit VI O Captain My Captain
		✓		✓	✓	Unit VII The leech Gatherer
		✓		✓		Unit VIII Hope is the Thing with Feathers.
		✓		✓		Unit IX : The Conversation on a Magshar Night.
		✓	✓	✓	✓	Unit X : Money- Madness

	ENG-Co-134 English (Comp)- IV	✓	✓	✓	✓	Unit XI : Interview Preparation and Conduct
		✓	✓	✓	✓	Unit XII : Detailed self-introduction
		✓		✓		Unit I : Of Society and Civilization
		✓		✓		Unit II : My Greatest Olympic prize.
		✓		✓		Unit III : The Pleasures of Ignorance.
		✓		✓		Unit IV : The Lottery Ticket.
		✓	✓	✓	✓	Unit V : The Gift of the Magi
		✓	✓	✓	✓	Unit VI : To my Daughter
		✓	✓	✓	✓	Unit VII Amalkanti
		✓	✓	✓	✓	Unit VIII Women
		✓		✓		Unit IX : And the Dream Bird
		✓		✓	✓	Unit X : Spring
		✓	✓	✓	✓	Unit XI : Writing Letter
						Unit XII Job Letter

B.A. First Year	ENG-1-22 English (Opt)- I	✓	✓	✓	✓	Unit I : a) Types of Poetry b) Text of Poetry
		✓	✓	✓	✓	Unit II : a) Types of Drama b) Text of Drama
		✓	✓	✓	✓	Unit III : a) Fiction b) Text of Fiction
	ENG-2-22 English(Opt)- II	✓	✓	✓	✓	Unit I a) Types of Drama b) Text
		✓	✓	✓	✓	Unit II : Poetry
		✓	✓	✓	✓	Unit III : Drama
B.A. IInd Year	ENG-3-13 English (Opt)- III	✓	✓	✓	✓	Unit IV : Short Fiction
		✓	✓	✓	✓	Unit I a) Prose Types b) Text : Essays by Francis Bacon
	✓	✓	✓	✓	Unit II Autobiography	
	✓	✓	✓	✓	Unit III Drama	
ENG-4-13 English (Opt)-	✓	✓	✓	✓	Unit IV Fiction	

B.A. IIIrd Year	IV	✓ ✓	✓ ✓	✓ ✓	✓	Unit I a) Poetry Types b) Text
		✓	✓	✓	✓	Unit II Essays by Francis Bacon
	ENG-5-13 English (Opt) - V	✓	✓	✓	✓	Unit III Drama
		✓	✓	✓	✓	IV Fiction
		✓	✓	✓	✓	Unit I Introduction to types of literature in English
		✓	✓	✓	✓	Unit II Texts for study : Poetry
	ENG-6-13 English (Opt) - VI	✓	✓	✓	✓	Unit III Texts for Study : Drama
		✓	✓	✓	✓	Unit IV Text for study : Fiction
		✓	✓	✓	✓	Unit I Introduction to types of literature in English
		✓	✓	✓	✓	Unit II Texts for study : Poetry
		✓	✓	✓	✓	Unit III Texts for Study : Drama
	ENG-7-13 English (Opt) - VII	✓	✓	✓	✓	Unit IV Text for study : Short Fiction
					Unit I Introduction to periods of British literature	

	ENG-8-13 English (Opt) - VIII	✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ ✓	Unit II Texts for study: Poetry Unit III Text for study : Drama Unit IV Text for study : Prose Unit I : Postcolonialism : a background Unit II : Texts for study : Poems Unit III : Texts for study : Essays Unit IV : Text for study : Fiction
B.A/ B.Sc Ist Year	MAR-SL-221 Marathi (SL)-I MAR-1-22 Marathi (Opt)- I	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	गद्य विभाग अ घटक पद्य विभाग ब घटक उपयोजित मराठी क घटक निवडक अभाग Unit I: संत ज्ञानेश्वर Unit II : संत गोराकुंभार

						Unit III: संत नामदेव
		✓	✓	✓	✓	Unit IV संत सेना न्हावी
		✓	✓	✓	✓	Unit V संत चोखामेळा
		✓	✓	✓	✓	Unit VI संत एकनाथ
		✓	✓	✓	✓	Unit VII संत जनाबाई
		✓	✓	✓	✓	Unit VIII संत तुकाराम
	MAR-2-22 Marathi (Opt)- II		✓	✓		Content In the Course : Unit I आकाश
		✓				Unit II मला नको जा बायको
		✓		✓		Unit III विद्रोह
		✓		✓	✓	Unit IV पानबळी
		✓	✓	✓	✓	Unit V अल्पभूधारक
		✓	✓	✓		Unit VI शल्य
		✓	✓	✓	✓	Unit VII नवा सूर्योदय
		✓		✓		Unit VIII जाणीव

B.A. Ist Year	MAR-3-22 Marathi (Opt)- III	✓ ✓ ✓ ✓		✓ ✓ ✓ ✓		<p>Unit IX शिक्षण बॉब मारतय</p> <p>Unit X मेंदूची बाळ</p> <p>Unit XI रडणारी म्हातारी संध्याकाळ</p> <p>Unit XII बाबालच्या आयुष्यातील धादांत सत्य</p> <p>Unit XIII चिरेबंद</p> <p>निवडक ललित गद्य Unit I बा शेतकऱ्या उठ साने गुरुजी</p> <p>Unit II पैस – दुर्गा भागवत</p> <p>Unit III गांधी आमचा कोण लागतो ? अनंत भालेराव</p> <p>Unit IV विघ्न संतोषी विजय तेंडुलकर</p> <p>Unit V महाविद्यालयातील विद्यार्थ्यांस पत्र- शरद जोशी</p> <p>Unit VI वन्यजीव निरीक्षणाची किमया – मारुती चितमपल्ली</p> <p>Unit VII औरंगाबाद : महाराष्ट्रातील दिल्ली- सुधीर रसाळ</p>
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						<p><u>Unit VIII</u> अरण्यातील आत्मभान – महेश एलकुंचवार</p> <p><u>Unit IX</u> आपली फुलन्याचीही आणि फुलवण्याचीही क्षमता ओळखू – आ.ह. साळुंके</p> <p><u>Unit X</u> शब्दांच्या संध्याकाळी – श्रीनिवास विनायक कुलकर्णी</p> <p><u>Unit XI</u> यशवंतराव: साधे, सुसंस्कृत, मायाळू- अनिल अवचट</p> <p><u>Unit XII</u> लेखक व्हायच तर... जिव्हाळा आणि तटस्थता हवी – दत्ता भगत</p> <p><u>Unit XIII</u> सुभाष संपाची गोष्ट – नागनाथ कोतापल्ले</p> <p>निवडक मराठी कविता</p> <p><u>Unit I</u> ना. धों. महानोर</p> <p><u>Unit II</u> अनुराधा पाटील</p> <p><u>Unit III</u> इलाही जमादार</p> <p><u>Unit IV</u> प्राध्य दया पवार</p> <p><u>Unit V</u></p>
	MAR-4-22 Marathi (Opt)- IV	✓	✓	✓	✓	

						श्रीकांत देशमुख
		✓		✓		<u>VI</u> सौमित्र
			✓	✓		<u>VII</u> कल्पना दुधनाळ
B.A. B.Sc IIInd Year	MAR-SL-133 Marathi (SL)- III	✓	✓	✓	✓	<u>Content in the course</u> <u>Unit I :</u> गद्य विभाग
		✓	✓	✓	✓	<u>Unit II :</u> पद्य विभाग
		✓			✓	<u>Unit III :</u> उपयोजित मराठी
B.A. IIInd Year	Marathi-5-13 Marathi (Opt) - V					आधुनिक मराठी वाङ्मयाचा इतिहास <u>Unit I</u> इ.स. १८०० ते इ.स. १८७४ या कालखंडाची सामाजिक व सांस्कृतिक पार्श्वभूमी
		✓	✓	✓	✓	<u>Unit II</u> निबंध स्वरूप विशेष
		✓	✓	✓	✓	<u>Unit III</u> कथा वाङ्मयाचे स्वरूप, विशेष
		✓	✓	✓	✓	<u>Unit IV</u> कादंबरी वाङ्मयाचे स्वरूप, विशेष
	Marathi-6-13 Marathi (Opt) - VI					<u>Content in the course</u>
		✓		✓		<u>Unit I :</u> नभोवाणी

	Marathi-7-13 Marathi (Opt) - VII	✓ ✓	✓	✓		<u>Unit II :</u> <u>दूरचित्रवाणी</u> <u>Unit III :</u> <u>संकेतस्थळ</u> <u>आधुनिक मराठी वाङ्मयाचा</u> <u>इतिहास</u> <u>Unit I :</u> <u>नाट्य वाङ्मयाचे स्वरूप विशेष</u> <u>Unit II :</u> <u>काव्य वाङ्मयाचे स्वरूप विशेष</u> <u>Unit III :</u> <u>चरित्र आत्म चरित्र वाङ्मयाचे</u> <u>स्वरूप विशेष</u>
	Marathi-8-13 Marathi (Opt) - VIII	✓	✓	✓	✓	<u>Content in the course</u> <u>Unit I :</u> <u>साहित्य प्रकारांतराची संकल्पना</u> <u>व स्वरूप</u> <u>Unit II :</u> <u>माध्यम संकल्पना प्रकार व</u> <u>वैशिष्ट्ये</u> <u>Unit III :</u> <u>माध्यमासाठीचे लेखन</u>
	MAR-9-13 Marathi (Opt) - IX	✓	✓	✓		<u>Unit IV:</u> <u>साहित्याचे माध्यमांतर</u>

B.A. IIIrd Year	MAR-10-13 Marathi (Opt) - X	✓		✓		<u>Unit I:</u> साहित्याचे स्वरूप
				✓		<u>Unit II :</u> साहित्याची प्रयोजने
		✓		✓		<u>Unit III:</u> साहित्याची निर्मिती प्रक्रिया
		✓	✓	✓		<u>Unit IV:</u> रसविचार
		✓		✓		<u>Unit V:</u> शब्दशक्ती व अर्थविचार
		✓		✓		<u>Unit I</u> भाषेचे स्वरूप
		✓		✓		<u>Unit II</u> स्वन विचार
	ENG-15-13 English (Opt) - XI	✓		✓		<u>Unit III</u> स्वनीम विचार
		✓		✓		<u>Unit IV</u> रूपीम व पदविचार
		✓		✓		<u>Unit V</u> प्रमाणभाषा व बोलीभाषा
		✓	✓	✓		<u>Unit I:</u> मराठीचा प्रारंभ काळ व मुकुंदराज
		✓	✓	✓		<u>Unit II :</u> महानुभाव पंथ आणि त्यांचे वाङ्मयीन कार्य
		✓	✓	✓		<u>Unit III :</u> वारकरी संप्रदाय आणि त्यांचे वाङ्मयीन कार्य
		✓	✓	✓		

	MAR-13-13 Marathi (Opt) - XIII		✓	✓		<u>Unit IV :</u> बहामनीकालीन मराठी साहित्य <u>Unit V :</u> संत तुकाराम आनी संत रामदास <u>Content in the course</u> <u>Unit I :</u> साहित्याचे स्वरूप <u>Unit II :</u> साहित्याचे प्रयोजने <u>Unit III :</u> साहित्याची निर्मितीप्रक्रिया <u>Unit IV :</u> मार्क्सवादी साहित्यविचार <u>Unit V :</u> ऐतिहासिक व मार्क्सवादी समीक्षा पद्धती
	MAR-14-13 Marathi (Opt) - XIV	✓	✓	✓	✓	<u>Unit I :</u> शब्दांच्या जाती व शब्दसंग्रह <u>Unit II</u> <u>संधी विचार</u> <u>Unit III</u> <u>समास</u> <u>Unit IV</u> <u>अलंकार</u> <u>Unit V</u> <u>निबंध</u>
	MAR-11-13 Marathi (Opt) - XV	✓	✓	✓	✓	<u>Unit I :</u> पंडिती साहित्य प्रेरणा स्वरूप व वैशिष्ट्ये
		✓	✓	✓	✓	
		✓	✓	✓	✓	
		✓	✓	✓	✓	
		✓	✓	✓	✓	
		✓	✓	✓	✓	
		✓	✓	✓	✓	
		✓	✓	✓	✓	
		✓	✓	✓	✓	
		✓	✓	✓	✓	
		✓	✓	✓	✓	
		✓	✓	✓	✓	

		✓	✓	✓	✓	<p>Unit II : मुक्तेश्वर, वामन पंडित, रघुनाथ पंडित, सामराज, श्रीधर मोरोपंत यांचे ग्रंथ व ग्रंथांचा परिचय</p> <p>Unit III : शाहिरी वाङ्मय प्रेरणा स्वरूप व वैशिष्ट्ये</p> <p>Unit IV : बखर वाङ्मय प्रेरणा स्वरूप व वैशिष्ट्ये</p>
B.A/ B.Sc. Ist Year	HIN-SL-221 Hindi (SL)-I	✓	✓	✓	✓	<p>सामान्य हिंदी</p> <p>Unit I : कथा द्वादशी</p> <p>Unit II : हिंदी भाषा</p>
	HIN-1-22 Hindi (Opt)- I	✓	✓	✓	✓	<p>हिंदी साहित्य का इतिहास (आदी तथा मध्यकाल) भाग 1</p> <p>Unit I : काल विभाजन एवं नामकरण</p> <p>Unit II : आदिकालीन हिंदी साहित्य</p> <p>Unit III : भक्ती आंदोलन</p> <p>Unit IV : प्रमुख कवी</p> <p>Unit V : रिती काल</p>
	HIN-2-22 Hindi (Opt)- II	✓	✓	✓	✓	<p>आधुनिक कविता</p> <p>Unit I : काव्य कुसुम</p> <p>Unit II : राहुल खंडकाव्य</p>
	HIN-SL-222 Hindi (SL)-II	✓	✓	✓	✓	<p>सामान्य हिंदी</p>

B.A/ B.Sc IIInd Year	HIN-3-22 Hindi (Opt)- III	✓	✓	✓	✓	Unit I : पद्य साहित्य Unit II : हिंदी भाषा कहानी साहित्य Unit I : काथोपदेश Unit II : दीक्षांत उपन्यास
	HIN-4-22 Hindi (Opt)- IV	✓	✓	✓	✓	मध्ययुगीन कविता Unit I : काव्य इंद्रधनु Unit II : राम चरितमानस (251-300)
B.A. IIInd year	HIN-SL-133 HIN (SL)- III	✓	✓	✓	✓	सामान्य हिंदी Unit I : गद्य के विविध आयाम Unit II : प्रयोजनमूलक हिंदी कथेतर गद्य साहित्य
	Hindi-5-13 Hindi (Opt) - V	✓	✓	✓	✓	Unit I : गद्य प्रभा Unit II : गद्य गौरव
	Hindi-6-13 Hindi (Opt) - VI	✓	✓	✓	✓	प्रयोजन मूलक हिंदी Unit I : देवनागरी लिपी Unit II : प्रयोजन मूलक हिंदी – स्वरूप एवं विशेषताये

B.A./ B.Sc. IIInd year	HIN-SL-134 Hindi (SL)- IV	✓	✓	✓	✓	सामान्य हिंदी Unit I : गद्य के विविध आयाम Unit II : प्रयोजनमूलक हिंदी
B.A. IIInd year	Hindi-7-13 Hindi (Opt) - VII	✓	✓	✓	✓	आधुनिक हिंदी कविता Unit I : चुनी हुई हिंदी काविताये Unit II : भूमिजा खंडकाव्य
	Hindi-8-13 Hindi (Opt) - VIII	✓	✓	✓	✓	प्रयोजनमूलक हिंदी Unit I : पारिभाषिक शब्दावली Unit II : राजभाषा हिंदी Unit III : प्रयोजनमूलक हिंदी लेखन पक्ष Unit IV : प्रयोजनमूलक अनुवाद
B.A. IIIrd Year	HIN-9-13 Hindi (Opt) - IX	✓	✓	✓	✓	प्रादेशिक भाषा साहित्य Unit I : प्रतिनिधी कहानी : मराठी Unit II : पराया
	HIN-10-13 Hindi (Opt) - X	✓	✓	✓	✓	आदि तथा मध्यकालीन हिंदी साहित्य का इतिहास Unit I : हिंदी साहित्य इतिहास – लेखन स्त्रोत एवं परंपरा

		✓	✓	✓	✓	Unit II : आदिकाल
		✓	✓	✓	✓	Unit III : भक्तिकाल
		✓	✓	✓	✓	Unit IV : रीतिकाल
	HIN-11-13 Hindi (Opt) - XI	✓	✓	✓	✓	साहित्य शास्त्र Unit I : साहित्य का स्वरूप
		✓	✓	✓	✓	Unit II : साहित्य के तत्व
		✓	✓	✓	✓	Unit III : साहित्य के प्रयोजन
		✓	✓	✓	✓	Unit IV : साहित्य के हेतू
		✓	✓	✓	✓	Unit V : शब्दशक्ति
		✓	✓	✓	✓	Unit VI : रस
	HIN-12-13 Hindi (Pro) - XII	✓	✓	✓	✓	प्रकल्प कार्य Unit I : लेखन निर्देशन
	HIN-13-13 Hindi (Opt) - XIII	✓	✓	✓	✓	मध्यकालीन काव्य Unit I मध्यकालीन काव्य
	HIN-14-13 Hindi (Opt) - XIV	✓	✓	✓	✓	आधुनिक हिंदी साहित्य का इतिहास Unit I :

	HIN-15-13 Hindi (Opt) - XV	✓	✓	✓	✓	काव्य साहित्य Unit II : गद्य साहित्य
	HIN-16-13 Hindi (Opt) – XVI	✓	✓	✓	✓	साहित्यशास्त्र Unit I : छंद विचार Unit II : विधा स्वरूप विवेचन Unit III : आलोचना
		✓	✓	✓	✓	प्रकल्प कार्य Unit I : लेखन निर्देशन
B.A. Ist Year	HIS-1-22 History Paper-I	✓	✓	✓	✓	Shivaji and his Times Unit I : Rise of Maratha Power Unit II : Early expansion of Shivaji Unit III : Shivaji Mughal Relations Unit IV : Coordination of Shivaji and his Karnataka expansions Unit V : Chatrapati Sambhaji Unit VI : Maratha War of Independence Unit VII :

						<p>Civil Judicial and Military Administration during this period</p> <p>History of Ancient India (Beginning to 320 A.D.) Unit I : Sources of Ancient India</p> <p>Unit II : Hadappa Civilization</p> <p>Unit III : Second Urbanization</p> <p>Unit IV : Mourya and Satvahana dynasty</p>
	HIS-2-22 History Paper-II	✓	✓	✓		
	HIS-3-22 History Paper-III	✓	✓	✓	✓	<p>History of Marathas 1630 A.D. to 1707 A.D. Unit I : Transfer of power from Chatrapati to Peshwa</p> <p>Unit II Peshwa Bajirao Ist and expansion of Maratha Power</p> <p>Unit III : Battle of Panipat</p> <p>Unit IV : Revival of Maratha Power</p> <p>Unit V : Anglo Maratha Relations</p> <p>Unit VI : Decline of Maratha Power causes and consequences</p>
		✓	✓	✓	✓	

B.A. IInd Year	HIS-4-22 History Paper-IV			✓	✓	Unit VII : Changes in Administrative system of Peshwa's History of Ancient India (320 to 1206 A.D.) Unit I : Gupta and Wakat Dynasty Unit II : Warthan Dynasty Unit III : Chalukya and Rashtruakut Unit IV : Chalukya of Kalyani
	HIS-5-13 History -V	✓	✓	✓		History of Early India (Up to 300 B.C.) Unit I : Sources Unit II : Archaeological and numistic sources Unit III : Harappan Civilization Unit IV : Vaidik Culture
	HIS-6-13 History -VI	✓	✓	✓	✓	Unit V : Janpadas and Mahajanpadas
		✓	✓	✓		History of Delhi Saltanat (1200-1556 A.D.) Unit I :
		✓	✓	✓		
		✓	✓	✓		
		✓	✓	✓		
		✓	✓	✓		
		✓	✓	✓		
		✓	✓	✓		

			✓	✓		Sources of History
		✓	✓	✓		Unit II : Political History
				✓		Unit III : Delhi Saltanat
						Unit IV : Religious Culture
	HIS-7-13 History -VII	✓		✓	✓	Unit V : Art and Architect of Delhi Saltanat
		✓	✓	✓	✓	History of India (B.C. 300 to A.D. 650)
						Unit I : Sources Literally and archaeological
		✓	✓	✓		Unit II : Brief survey of Political Changes – Satvahan, Shung, Tushan, Kanv, Gupt, Dynasty
		✓	✓	✓		Unit III : Socio economical life
		✓	✓	✓		Unit IV : Religious Life
						Unit V : Development of Art and Architect
	HIS-8-13 History -VIII	✓		✓		Unit VI : Language and Literature
				✓		History of Mughal India Unit I : Sources of History
			✓			

B.A. IIIrd Year	HIS-9-13 History (Opt) - IX	✓	✓	✓	Unit II : Brief survey of Political History Unit III : Mughal Administration Unit IV : Economic Development Unit V : Religious and Social Life Unit VI : Art and Architect of Mughal India Historiography Unit I : History, Definition, Nature, Scope, Kinds of History. Unit II : History and Other Branches of Knowledge Unit III : Sources of History Unit IV : Modern thinkers of History Unit V : Measure tradition in Indian History Writing Unit VI : Use and Up use of History
		✓	✓	✓	
		✓	✓	✓	
		✓	✓	✓	
		✓	✓	✓	
		✓	✓	✓	
		✓	✓	✓	
	HIS-10-13 History (Opt) - X	✓	✓	✓	
		✓	✓	✓	
		✓	✓	✓	
		✓	✓	✓	
		✓	✓	✓	
		✓	✓	✓	
		✓	✓	✓	

						History of Indian Freedom Moment (1885-1947 A.D.)
		✓	✓	✓		Unit I : Background
			✓	✓		Unit II : Rise of Nationalism in India
		✓	✓	✓		Unit III : Indian National Congress
		✓	✓	✓		Unit IV : Revolutionary movement
		✓	✓			Unit V : Traditional movement
			✓	✓		History of Modern China (1900-1950 A.D.)
		✓	✓	✓		Unit I : Political and Economic Conditions
		✓	✓	✓		Unit II : May 4 th Movement (1919)
		✓	✓	✓		Unit III : Foundation of Chinese Communist Party
		✓	✓	✓		Unit IV : Kuomintang- Communist Struggle (1928-1935)
		✓	✓	✓		Unit V : China During the period between 1936-1945
		✓	✓	✓		Unit VI : Mao and his role in the communist revolution in China

	HIS-13-13 History (Opt) - XIII	✓	✓	✓		Field of History (Archaeology, Museology, Tourism) Unit I : Objectives Unit II : Archaeology Unit III : Process in Archaeology Unit IV : Museology Unit V : Tourism Unit VI : Types and forms of Tourism
	HIS-14-13 History (Opt) - XIV	✓	✓	✓		Landmark in the History of Modern World (1776- 1965) Unit I : Renaissance Unit II : American war of Independence Unit III : French Revolution Unit IV :

	HIS-15-13 History (Opt) - XV	✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	Industrial Revolution Unit V : European Imperialism Unit VI : Russian Revolution Unit VII : Second World War Glimpses of the History of Marathwada up to A.D. 1948 Unit I : Political History of Marathwada Unit II : Religious Movement Unit III : Art and Architect Unit IV : Socio economic and cultural history of Marathwada Unit V : Hyderabad Freedom Struggle
B.A.Ist Year	POL-1-22 Pol Science -I	✓ ✓		✓ ✓	Principals of Political Science Unit I : Political Science, Meaning, Nature and Scope Unit II : State, Elements of State, Origin of State

		✓	✓	✓	✓	<p>Unit III : Government meaning, Elements of Government , Types of Government</p> <p>Unit IV : Sovereignty meaning, Definition and Types</p> <p>Unit V : Communism, Meaning, Nature and Scope</p>
	POL-2-22 Pol Science -II	✓	✓	✓	✓	<p>Indian Government and Politics Unit I : Indian Constitution: Preamble, Salient Feature, Fundamental Rights and Beauties Directive Principals of State Policy</p> <p>Unit II : Union Government: President, Vice-president, Prime Minister, Cabinet and Parliament</p> <p>Unit III : Judiciary : Supreme Court, Lokpal, Public Interest, Litigation (PLI), Judicial Activism</p>
	POL-3-13 Pol Science - III	✓	✓	✓	✓	<p>Principals of Political Science Unit I : Liberty, Equality and Justice</p>

B.A. IInd Year	POL-4-13 Pol Science - IV	✓		✓	<p>Unit II : Democracy, Meaning, Definition, Features, Direct and Indirect Democracy</p> <p>Unit III : Nationalism, Meaning, Definition, Elements</p> <p>Unit IV : Liberalism</p> <p>Unit V : Feminism</p> <p>Unit I: Indian Federal System: Characteristic, Centre Relations,</p> <p>Unit II Election Commission and Electoral Process in India :</p> <p>System of Political parties in India. Pressure Groups.</p> <p>Government and Politics in India</p> <p>Unit I : Indian Constitution: Sources, Features</p> <p>Unit II : Indian Federalism</p> <p>Unit III : Supreme Court :</p>
	POL-5-13 Pol Science -V	✓	✓ ✓	✓ ✓ ✓	

		✓		✓		Unit IV : Fundamental Rights
		✓		✓		Unit V : Directive Principals
		✓		✓		Unit VI : Process of Budget
		✓		✓		Unit VII : Parliamentary Committees
	POL-6-13 Pol Science - VI	✓		✓		Unit IX : Political Organization: Parliament, Educative, Judiciary, President
		✓		✓		International Relations Unit I : International Relation, Meaning, Definition, Nature, Scope and Importance
		✓		✓		Unit II : Approaches to Study of International Relations
		✓		✓		Unit III National Interest : Meaning, Elements. National Power : Meaning and Elements.
		✓		✓	✓	Unit IV : Balance of Power : Meaning, Types and Elements.
	POL-7-13 Pol Science - VII	✓		✓		Unit V : Indian Foreign Policy
		✓	✓	✓		

						Government and Politics in India Unit I : Centre State Relations
		✓	✓	✓		Unit II : Challenges before Indian Democracy
		✓		✓	✓	Unit III : Indian Political Parties : 1. Congress 2. B.J.P. 3. Indian Communist Party 4. Marxists Communist Party
	POL-8-13 Pol Science - VIII	✓		✓	✓	Unit IV : Election Commission and Electoral Reforms
		✓		✓		International Relations Unit I : Collective Security and UNO
		✓		✓		Unit II : Tanav Shaithilya (Detant) : Meaning, Nature and Features
		✓	✓	✓	✓	Unit III : Measure Issues in Contemporary World Politics : 1. Terrorism 2. Environmentalism
		✓	✓	✓		Unit IV : International and Regional Organization- 1. Trade Association 2. SARC (South Asian Association for Regional Cooperation)

B.A. III rd Year	POL-9-13 Pol Science (Opt) - IX	✓	✓	✓	✓	3. Asian Unit V : Non alignment Movement : Meaning, Nature, Role, Relevance of Non Alignment Movement
		✓	✓	✓		Indian Political Thinker Unit I : Rajaram Mohan Roy
		✓	✓	✓		Unit II : Lokmany Tilak
		✓	✓	✓		Unit III : Lokmanya Tilak
	POL-10-13 Pol Science (Opt) - X	✓	✓	✓		Unit IV : Mahatma Gandhi
		✓	✓	✓		Unit V : Gopal Krushn Gokhale
		✓	✓	✓		Western Political Thinker Unit I : Pleto
		✓	✓	✓		Unit II : Aristotal
		✓	✓	✓		Unit III : Nikolas Makaveli
	POL-11-13 Pol Science (Opt) - XI	✓	✓	✓		Unit IV : Thomas Hobbs
		✓				Unit V : John Locke
				✓		Major Political Ideology Unit I :

			✓	✓		Nationalism
			✓	✓		Unit II : Liberalism
						Unit III : Democracy
						Unit IV : Feminism
	POL-13-13 Pol Science (Opt) - XIII	✓	✓	✓		
		✓	✓	✓		Indian Political Thinkers Unit I : Pandit Nehru
		✓	✓	✓		Unit II : Dr.Babasaheb Ambedkar
		✓	✓	✓		Unit III : M.N.Roy
		✓	✓	✓		Unit IV : Moulana Abul Kalam Azad
	POL-14-13 Pol Science (Opt) - XIV	✓		✓		Unit V : Jay Prakash Narayan
		✓		✓		Western Political Thinker Unit I : Jin Jack Russo
			✓	✓		Unit II : John Stuart Mill
		✓		✓		Unit III : Jeremy Bentham
		✓		✓		Unit IV :

	POL-15-13 Pol Science (Opt) - XIV	✓		✓		Karl Marx Unit V : Prof Herold Laski Major Paper Political Ideologies Unit I : Socialism Unit II : Communism Unit III : Fascism : Unit IV : Anarchism Unit V : Imperialism Unit VI : Environmentalism Project
	POL-12-13 Pol Science (Pro) – XII	✓		✓	✓	
	POL-16-13 Pol Science (Pro) – XVI	✓		✓	✓	
B.A. Ist Year Sem-I	GEO-1-22 Geography-I	✓		✓	✓	Physical Geography Unit I : Introduction of Physical Geography Unit II : Lithosphere

		✓		✓	✓	Unit III : Earth Movement
		✓		✓	✓	Unit IV Rocks
	GEO-2-22 Geography-II		✓	✓	✓	Human Geography Unit I : Human Geography- Introduction
		✓	✓	✓	✓	Unit II : Man & Environment Relationship
		✓	✓	✓	✓	Unit III : Physical & Social Profile of Racial Group
	GEO-3-22 Geography-III		✓	✓	✓	Unit IV : Human Settlement
				✓	✓	Geography of Landforms Unit I : Concept of Landforms :
		✓		✓	✓	Unit II : Weathering
		✓		✓	✓	Unit III : Geographic agents & Processes.
	GEO-4-22 Geography-IV			✓	✓	Unit IV: Applied Geomorphology.
					✓	Geography of Maharashtra Unit I :

B.A. IInd Year Sem-III	GEO-22-22 Geography (Practical)	✓		✓	✓	Position & Personality
		✓	✓	✓	✓	Unit II : Physical Characteristics
		✓	✓	✓	✓	Unit III : Agriculture
		✓	✓	✓	✓	Unit IV : Industries
		✓		✓	✓	Practical Unit I : Cartography, Scale
		✓		✓	✓	Unit II : Relief
		✓		✓	✓	Unit III : Representing of Slopes and Relief
	GEO-5-13 Geography -V	✓		✓	✓	Unit IV: Maps Enlarge & Reduction
		✓		✓	✓	Unit V : Landforms by contours.
		✓		✓	✓	Unit VI : Signs & Symbols of SOI Map
		✓		✓	✓	Climatology Unit I : Weather And Climate
		✓		✓	✓	Unit II : Insolation & Temperature
		✓		✓	✓	Unit III : Atmospheric Pressure & Winds

	GEO-6-13 Geography-VI	✓	✓	✓	✓	Unit IV : Role of Climate in human life
				✓	✓	Unit I : Population- Nature, Scope Definition & Important
		✓	✓	✓	✓	Unit II : Population Distribution
	GEO-7-13 Geography - VII		✓	✓	✓	Unit III : Population Structure
			✓	✓	✓	Unit IV : Migration
				✓	✓	Oceanography Unit I : Oceanography
			✓	✓	✓	Unit II : Submarine Relief
				✓	✓	Unit III : Salinity & Temp of Ocean Water
	GEO-8-13 Geography- VIII		✓	✓	✓	Unit IV : Marine Deposits
		✓	✓	✓	✓	Settlement Geography Unit I : Settlement Geography
		✓	✓	✓	✓	Unit II : Settlement site & Structure
	GEO-22-13 Geography- (Practical)-	✓	✓	✓	✓	Unit III :

B.A. III rd Year Sem-V	GEO-11-13 Geography (Opt) - XI	✓	✓	✓	✓	Special Organization
		✓		✓	✓	Unit IV : Settlement silent Feature
		✓		✓	✓	Practical Geography Unit I : Mechanism and uses of weather instruments
		✓	✓	✓	✓	Unit II : IDWR- Sign, symbols & Interpretation
		✓	✓	✓	✓	Unit III : Cartographic Techniques
		✓	✓	✓	✓	Unit IV : Methods showing by statistical data
		✓	✓	✓	✓	Unit V : Map Projection
	GEO-12-13 Geography (Opt) - XII	✓		✓	✓	Physical Geography of India Unit I : South East Asia in India
		✓		✓	✓	Unit II : Regional & Seasonal Variation of Climate
		✓		✓	✓	Unit III : Soil types in India
		✓		✓	✓	Unit IV : Natural Vegetation
		✓		✓	✓	Environmental Geography

		✓	✓	✓	✓	Unit I : Environmental Geography, Nature, Scope, Type
		✓	✓	✓	✓	Unit II : Ecology
		✓	✓	✓	✓	Unit III : Ecosystem
		✓		✓	✓	Unit IV : Problems- Ecosystem and and Environment
		✓	✓	✓	✓	Industrial Geography of Maharashtra Unit I : Development of Industry
		✓	✓	✓	✓	Unit II : Distribution and pattern of Industry
		✓	✓	✓	✓	Unit III : Industrial Belt & Characteristics
		✓	✓	✓	✓	Unit IV : Role of globalization & its effects
		✓	✓	✓	✓	Agricultural Geography of India Unit I : Agriculture development in India
		✓	✓	✓	✓	Unit II : Agriculture in India.
		✓	✓	✓	✓	Unit III : Major Crops in India
	GEO-13-13 Geography (Opt) - XIII	✓	✓	✓	✓	
	GEO-14-13 Geography (Opt) - XIV	✓	✓	✓	✓	
	GEO-15-13 Geography (Opt) - XV	✓	✓	✓	✓	

						Unit IV : Green Revolution in India
				✓	✓	
						Geography of Calamity Unit I : Natural Calamity Nature & Scope
				✓	✓	
	GEO-16-13 Geography Practical - XVI	✓	✓	✓	✓	Unit II : Volcanos and Earthquake
		✓	✓	✓	✓	Unit III : Drought & Floods
						Unit IV : Global Calamity :
		✓		✓		
						Practical Geography Unit I : Measures of Central Tendency
		✓		✓		
	GEO-17-13 Geography (Opt) - XVII	✓		✓		Unit II : Measures of Deviation
		✓		✓		Unit III : Correlation
						Unit IV : Regration Equation
				✓	✓	
						Biography Unit I : Biogeography- Nature Scope
				✓	✓	
		✓	✓	✓	✓	Unit II : Environment – Evolution of Theory
	GEO-19-13 Geography Pro - XIX					Unit III :

		✓	✓	✓	✓	<p>Elements of Plant Geography</p> <p>Unit IV: Geography – Relationship</p> <p>Practical Geography Survey Unit I : Instrumental Survey</p> <p>Unit II : Prismatic Compass Survey</p> <p>Unit III : Representation of Bearing</p> <p>Unit IV : Correction of Bearing</p>
B.Sc Ist Year	CHEM-1-22 Chemistry- I	✓			✓	<p>Inorganic Chemistry Unit I : Atomic Structure & Periodic Properties- Electronic configuration Bohr's Model, All Periodic Props</p> <p>Unit II : S-Block elements- Alkali Metals & Alkaline earths metals</p>
	CHEM-2-22 Chemistry- II	✓			✓	<p>Organic Chemistry Unit I : Alkanes- Methods of formation. Physical properties & Chemical reactions.</p>

B.Sc IInd Year	CHEM-3-22 Chemistry- II	✓			✓	Organic Chemistry Unit I : Alcohols : Population and Properties of alcohols.
		✓			✓	Unit I : Phenols General Properties, Preparation, Chemical reactions
	CHEM-4-22 Chemistry- IV				✓	Physical Chemistry Unit I : Gaseous State, Liquid State, and Solid State
	CHEM-6-13 Chemistry- VI			✓	✓	Physical Chemistry Unit I : Thermodynamics – I & II Terms involved in thermodynamics. First Law. Limitation of Ist Law need for second law. Second law . Concept of entropy free energy functions.
B.Sc, III rd Year	CHEM-7-13 Chemistry- VII				✓	Unit I : Electrochemistry- I & II. Electrical transport conductance in metals & solutions. Transport numbers. Types of electrodes. E.M.F. of cell. Electrochemical Theory of corrosion.
	CHEM-11- 13					

	Chemistry- XI				✓	Inorganic Chemistry Unit I : Photochemistry Photosensitized reaction
	CHEM-12- 13 Chemistry- XII	✓			✓	Unit II : Nano material Synthesis of Nano materials
	Chemistry- 12-13	✓			✓	Unit I : Fats oils and Detergents
		✓			✓	Unit II : Bioinorganic Chemistry Essential and trace elements, Nitrogen fixation
	Chemistry- XIV	✓			✓	Unit III : Chromatography Application of Chromatography
	Chemistry- 14-13	✓			✓	Unit I : Synthesis Polymers, Synthesis of Polymers and uses
		✓	✓		✓	Unit II : Synthesis dyes and drugs. Synthesis and uses of dyes.
		✓	✓		✓	Ideal Drugs
B.Sc Ist Year	PHY-1-22 Physics- I				✓	Mechanic Properties of Matter and Sound Unit I : Mechanics

B.Sc IInd Year	PHY-4-22 Physics- IV				✓	Unit II : Elasticity
					✓	Unit III : Viscosity & Surface Tension
					✓	Unit IV : Ultrasonic & Acoustics
	PHY-7-13 Physics-VII				✓	Unit I : Geometrical optics and optical Instruments
					✓	Unit II : Interference
					✓	Unit III : Diffraction
					✓	Unit IV : Polarization
	PHY-9-13 Physics Pra- IX	✓				Mathematical, Statistical Physics and Relativity
	PHY-10-13				✓	Unit I : Differential and ordinary differential equation
					✓	Unit II : Statistical basis
					✓	Unit III : Quantum Statistic
					✓	Unit IV : Theory of Relativity
						Unit I : Eight Practical

B.Sc. III rd Year	Physics Pra- X	✓				Unit I : Four Practical
	PHY-11-13 Physics-XI				✓	General Electronics Unit I : Semiconductor
					✓	Unit II : Transistor Biasing & Amplifier
					✓	Unit III : Oscillator & Multi vibrator
	PHY-12-13 Physics-XII	✓			✓	Unit IV : Modulation & Demodulation
	PHY-14-13 Physics-XIV					Six Practical
PHY-15-13 Physics-XV	✓				Five Practical	
						Classical and Quantum Mechanics
					✓	Unit I : Classical Mechanics
					✓	Unit II : Origin of Quantum Theory
					✓	Unit III : Wave Particle duality
					✓	Unit IV : Schrodinger equation and its Application
PHY-19-13 Physics-XIX					✓	Atomic Molecular Physics and Laser
					✓	Unit I :

					✓ ✓ ✓	Atomic Model Unit II : Vector Atom Model Unit III : Molecular Spectra Unit IV : LASER
B.Sc Ist Year	BOT-1-22 Botany- I				✓	Diversity of Cryptogams- I Unit I : Diversity and Identification of Algae Unit II : Identification and Economic Importance of Fungi
	BOT-2-22 Botany- II			✓	✓	Morphology of Angiosperm Unit I : Basic body plan of flowering plant. Morphology of vegetative organs. Morphology of reproductive organs.
	BOT-3-22 Botany- III				✓ ✓	Diversity of Cryptogams- II Unit-I : Diversity of Pteridophytes Unit II : Economic Importance Bryophytes & Pteridophytes Histology, Anatomy &

B.Sc IIInd Year	BOT-4-22 Botany-IV				✓	Embryology Unit I : Study of Tissues and Anatomical Str. Of Plant Str. Of flower and seed types study.
	BOT-7-13 Botany-VII			✓	✓	Taxonomy of Angiosperm Unit I : Origin & Evolution of Angiosperms
				✓	✓	Unit II : Herbaria
				✓	✓	Unit III : Study of families Unit IV : Understand the scope of plant products
B.Sc IIIrd Year	BOT-8-13 Botany-VIII				✓	Plant Ecology Unit I : Study of different Ecosystems
	BOT-12-13 Botany-XII				✓	Unit II : Study of Ecological factors
	BOT-15-13 Botany-XV				✓	Plant Physiology Unit I : Plant water relation
					✓	Unit II Growth hormones of Plant
					✓	Cell Biology and Molecular Biology Unit I : Study of Cell and Cell

	BOT-16-13 Botany-XVI				✓	organelles ,Str & functions of cell Study of DNA & RNA.
	BOT-19-13 Botany-XIX				✓	Diversity of Angiosperms- I Unit I : Biodiversity, Types of Biodiversity Conservation of Biodiversity
	BOT-20-13 Botany-XX				✓	Study of Genetics Unit I : Str. & functions of gene
					✓	Diversity of Angiosperm-II Unit I : Herbaria, Botanical Gardens, Study of families
B.Sc. Ist Year	ZOL-1-22 Zoology- I				✓	Protozoa To Annelida Content in the course Unit I : Protozoa
	ZOL-2-22 Zoology- II				✓	Unit II : Helminthes
					✓	Cell Biology Unit I : General Structure of Cell
					✓	Unit II : Organization of Cell
				✓		Unit III : Cytology of Cancer

					✓	Unit IV : Methods in cell Biology
					✓	Unit V : Protozoa to Annelida Cell Biology
	ZOL-3-22 Zoology- III				✓	Protozoa to Annelida and Cell Biology Unit I : Study of Museum Specimen
	ZOL-4-22 Zoology-IV				✓	Arthropod a to Echinoids Mata Protozoa Unit I : Arthropod a
					✓	Unit II : Mollusca
					✓	Unit III : Echinodermata
					✓	Unit IV : General Chroctyes & Classification
	ZOL-5-22 Zoology-V	✓	✓	✓		Unit – I Elements of heredity and variation.
		✓	✓	✓		Unit – II Multiple alleles
		✓	✓	✓		Unit- III Sex determination
		✓	✓	✓		Unit IV Mutation
	ZOL-6-22 Zoology Practical-VI					Arthropod to Echinoderm and cell Biology Unit I Study of Museum

B.Sc IIrd Year	ZOL-7-13 Zoology-VII				✓	Specimen Vertebrate Zoology- VII Unit I : Embryology Rat Classification
	ZOL-8-13 Zoology-VIII	✓	✓	✓		Genetics-II Unit-I Population Genetics
	ZOL-9-13 Zoology Pra - IX	✓	✓	✓		Unit-II Human Genetics
	ZOL-10-13 Zoology Pra-X		✓		✓	Practical Unit I : Classification of Vertebrate Zoology Genetics II
	ZOL-11-13 Zoology- XI					Unit I : Problems on sex linked inheritance
	ZOL-12-13 Zoology- XII				✓	Animal Physiology Unit I : All Chapter
	ZOL-13-13 Zoology Pra- XIII	✓	✓	✓		Biochemistry and Endocrinology Unit I Endocrinology
	ZOL-15-13 Zoology-XV				✓	Practical Unit I : Physiological Practical
	ZOL-16-13 Zoology-XVI					Ecology Unit I : Interaction of abiotic and biotic environmental factors
						✓

					✓	Introduction
						Unit II : Freshwater Fishery
					✓	Unit III : Reserving reservoir fishery
					✓	Unit IV : Brackish Water Fishery
					✓	Unit V : Application of Remote sensing technique
	ZOL-17-13 Zoology-XVII				✓	Practical Estimation of water soil experiment
	ZOL-18-13 Zoology-XVIII					Practical Unit I : Study of Freshwater Fishes
					✓	Unit II : Study Brackish water fishes
					✓	Unit III : Study of Marine Water
		✓			✓	Unit IV : Water Analysis
	ZOL-19-13 Zoology-XIX					Evolution Unit I : Evolution gives knowledge of changes of organisms from generation to generation
	ZOL-20-13 Zoology-XX			✓		Fishery Science –II Unit I :
					✓	

	ZOL-22-13 Zoology Pra- XXI	✓ ✓ ✓	✓		✓ ✓ ✓ ✓ ✓	<p>Introduction</p> <p>Unit II : Fish Crop Production</p> <p>Unit III : Breeding of Fishes</p> <p>Unit IV : Fish Technology</p> <p>Fishery Science Unit I : Primary Productivity of Ponds</p> <p>Unit II Crap and gears</p> <p>Unit III Fish parasites</p>
B.Sc Ist Year	CS-1-22 Computer Science- I CS-2-22 Computer Science- II	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	<p>Digital Electronic Unit I To understand and examine the structure of various number system and its application in digital design.</p> <p>Unit II : The ability to understand analyze and design various combinational and sequential circuits.</p> <p>Operating System Unit I : Understand fundamental operating system abstractions such as process, threads, files, semaphores, IPC abstractions, shared memory regions etc.</p>

						<p>Unite:</p> <p>Unit II : Analyze important algorithms eg. Process scheduling and memory management algorithms</p> <p>Unit III : Categorize the operating system's resource management techniques, deadlock management techniques, memory management techniques..</p> <p>Advance Java Unit I : Learn the internet programming, threading using java applets</p> <p>Unit II : Create a full set of UI widgets and other components, including windows, menus, buttons, checkboxes, text fields, scrollbars and scrolling lists, using Abstract Windowing Toolkit (AWT) & Swings</p> <p>Unit III : Apply event handling on AWT and Swing components.</p> <p>Unit IV: Learn to access database through Java programs, using Java Data Base Connectivity (JDBC)</p>
		✓	✓	✓	✓	
		✓	✓	✓	✓	
	CS-4-22 Computer Science-IV	✓	✓	✓	✓	
		✓	✓	✓	✓	
		✓	✓	✓	✓	
		✓	✓	✓	✓	

B.Sc IIInd Year	CS-5-22 Computer Science-V	✓	✓	✓	✓	Unit V: Create Dynamic web pages, using Servlets and JSP. Make a reusable software component, using Java.
		✓	✓	✓	✓	Digital Image Processing Unit I : Analyze the digital signal using various digital transforms DFT, FFT etc.
		✓	✓	✓	✓	Unit II : Design and develop the basic digital system.
	CS-8-13 Computer Science- VII	✓	✓	✓	✓	Unit III : Interpret the finite word length effect on functioning of digital filters.
		✓	✓	✓	✓	Data Structure Unit I : Understanding of fundamental Data structures including linked-lists, trees, binary search trees, AVL trees, stacks, queues, priority...
		✓	✓	✓	✓	Java Network Programming Unit I : Learn the basics of java sockets programming: Creation and usage of sockets;
	CS-11-13 Computer Science XI	✓	✓	✓	✓	Unit II Know how to develop Client/ Server TCP and
		✓	✓	✓	✓	

B.Sc IIIrd Year	CS-12-13 Computer Science XII	✓	✓	✓	✓	UDP applications
		✓	✓	✓	✓	Data Mining : Unit I : To fully understand standard data mining methods and techniques such as association rules, data clustering and classification
		✓	✓	✓	✓	Unit II : Learn new, advanced techniques for emerging applications (e.g. social network analysis, stream data mining)
		✓	✓	✓	✓	Data Structure Unit I : To provide the idea of decomposing the given problem into Analysis, Desing, Implementation, Testing and Maintenance Phases.
		✓	✓	✓	✓	Unit II: To provide an idea of using various process models in the software industry according to given circumstances.
		✓	✓	✓	✓	Unit III: To gain the knowledge of how Analysis, Design, Implementation, Testing and Maintenance processes are conducted in a software project.
						E- Commers

		✓	✓	✓	✓	<p>Unit I: Understand the basic concepts and technologies used in the field of management information systems.</p> <p>Unit II : Understand the processes of developing and implementing information system; Be aware of the ethical, social, and security issues of information systems;</p>
B.Sc Ist Year	<p>MATH-1-22 Mathematics-I</p> <p>MATH-2-22 Mathematics-II</p>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>				<p>Unit I : Plane</p> <p>Unit II : Right Line</p> <p>Unit III : Applications</p> <p>Unit IV : Sphere</p> <p>Unit V : Cones and Cylinders</p> <p>Unit I : Sets and Real Sequences</p> <p>Unit II : Functions of single variable</p> <p>Unit III : Successive Differentiation</p>

B.Sc IInd Year	MATH-3-22 Mathematics -III	✓				Unit IV : Vector Differentiation
		✓				Unit I : Divisibility
		✓				Unit II : Congruencies
		✓				Unit III : Some Functions of Number Theory
		✓				Unit IV : Some Diophantine equations
	MATH-4-22 Mathematics- IV	✓				Unit I : Integration of Rational and irrational Algebraic fractions
		✓				Unit II : Reduction Formulae
		✓				Unit III : Definite integrals and Rectification
		✓				Unit IV : Volumes and surfaces and solid of revolution
		✓				Unit V : Integral Transforms
MATH-5-13 Mathematics- III		Unit I : Divisibility theory in integers				
		Unit II : Primes and their Distribution				

		✓				Unit III : The Theory of Congruencies
		✓				Unit IV : Ferroat,s Theorem
		✓				Unit V : Number Theoretic functions
		✓				Unit VI : Euler’s generalization of Fermat’s Theorem
	MATH-6-13 Mathematics- IV	✓				Unit I : Beta and Gamma Functions
		✓				Unit II : Laplace transforms
		✓				Unit III : Inverse Laplace Transforms
		✓				Unit IV : Application to Differential Equation
		✓				Unit V : Fourier Transforms
	MATH-7-13 Mathematics- V	✓				Unit I : Forces acting on a particle
		✓				Unit II : Equilibrium of forces acting on a particle
		✓				Unit III : Forces acting on a rigid

		✓				body
	MATH-8-13 Mathematics- VI	✓				Unit IV : Centre of Gravity
		✓				Unit I : Solutions of Algebraic and transcendental Equations
		✓				Unit II : Interpolation Curve fitting and approximations
		✓				Unit III : Solutions of Linear System of Equation,
		✓				Unit IV : Numerical Solution of ODB.
	MATH-9-13 Mathematics- VII	✓				Unit I : PDE & order one
		✓				Unit II : Non Linear PDE of order one
		✓				Unit III : Linear PDE of second order Monge's method
	MATH-10-13 Mathematics VIII	✓				Unit I : Kinematics and Dynamic of a particle Two Dimensions
		✓				Unit II : Kinetics of a particle
		✓				Unit III : Motion of a projectile and motion to a resisting


						medium central orbits.
	MATH-11-13 Mathematics-IX	✓				Unit I : Groups
		✓				Unit II : Subgroups
		✓				Unit III : Counting Principal
		✓				Unit IV : Normal Subgroups
		✓				Unit V : Hemi Morphism
		✓				Unit VI : Atomorphism
		✓				Unit VII : Rings
		✓				VIII : Ideals
		✓				IX : Quotient rings
		✓				X : Polynomial rings
	MATH-12-13 Mathematics-XII	✓				Unit I : Functions
		✓				Unit II : Sequence of real numbers
		✓				Unit III : Series of real numbers
		✓				Unit IV : Jacobians
	MATH-13-13 Mathematics-XII	✓				Unit I : Linear Equation of First

B.Sc III rd Year	MATH-14-13 Mathematics- XIV	✓				Order
						Unit II : Linear Equations with constant coefficient
		✓				Unit III : Wronskian Non- homogeneous equation of two.
		✓				Unit I : Vector spaces
		✓				Unit II : LT & L.D Bases
		✓				Unit III : Dual Spaces
		✓				Unit IV : Annihilators
	MATH-15-13 Mathematics- XV	✓				Unit V : Inner product spaces
		✓				Unit I : Limits in metric spaces
		✓				Unit II : Continuous functions on metric spaces
		✓				Unit III : Connectedness
		✓				Unit IV : Completeness
		✓				Unit V : Compactness
		✓				Unit VI : Riemann integrals

	MATH-17-13 Mathematics- XVII	✓ ✓ ✓ ✓				Unit V : Fourier series Unit I : Linear Equation with Constant Coefficient Unit II : Linear Equation with regular singular points Unit III : Existence and uniqueness of solutions to first order equation
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Co-Ordinator
Internal Quality Assurance Cell
S.K.M. Gunjoti - 413 613
Dist. Osmanabad (M.S.)
IQAC Coordinator




PRINCIPAL
SHRIKRISHNA MAHAVIDYALAYA
GUNJOTI, DIST. OSMANABAD (M.S.)
Principal