



BALIRAM PATIL ARTS, COMMERCE AND SCIENCE, COLLEGE, KINWAT DIST- NANDED (MS)



PROGRAMME AND COURSE OUTCOMES

BACHLOR OF ARTS PROGRAMME OUT COMES:

Programme Outcomes after the completion of Course:

1. The students acquire knowledge in the field of Humanities, which make them to generalize the things in daily life.
2. The B.A. graduates acquire the knowledge and make aware of social, political, economic, historical, geographical, philosophical and traditional things, which improve human values.
3. The Students can appear various competitive examinations.
4. They can join in Post-Graduation courses.
5. The students become the responsible citizens of our nation.

BACHLOR OF ARTS COURSE OUT COMES:

Subject Name	Class and Semester	Paper Name and Number	Course Outcomes
ENGLISH	B.A./B.Com/B.SC . I YEAR SEM-I	Compulsory English-I	1. Through responding to and composing a wide range of texts, the learners will begin to use the English language in the best possible manner.
			2. Through the close study of texts, students will develop knowledge, understanding and skills in order to communicate effectively in English.
			3. Learners will value and appreciate the importance of the English language as a key to learning.
	B.A./B.Com/B.SC . I YEAR	Compulsory English-I	1. Learners will gain the personal enrichment from study of literary pieces in English.
	SEMESTER II		2. Learners will acquire ability to communicate through oral and written texts.
	B.A First year Semester I paper no.I	Optional English Title: Understanding Prose Fiction-I	3. 1) Learners will be able to appreciate the texts in English Prose Fiction genre.
			1. Through responding to different texts of Prose Fiction, the learners will acquaint themselves with the

			wide range of expressions in the English language.
			Learners will carry out the tasks of interpretation of novels and short stories by studying the critical analyses of the prescribed texts.
B.A First year Semester I paper no.II	Optional English Title: Understanding Poetry in English	1)	Learners will be able to appreciate English Poetry with an understanding of diverse poetic forms and themes
		2)	Through responding to different Poetic texts the learners will acquaint themselves with the various nuances of poetic expressions in the English language.
		3)	Learners will carry out the tasks of interpretation of poems by studying the critical analyses of the prescribed texts.
B.A First year Semester II paper no.III	Optional English Title:Understand ing Non- Fictional Prose in English	1)	Learners will be able to appreciate English Non-fictional prose with an understanding of various prose writings as developed through ages.
		2)	Through responding to different Prose writings learners will be enriched in the use of prose for diverse thematic expressions.
		3)	Learners will attain a certain degree of proficiency in the interpretation of English prose.
B.A First year Semester II paper no.IV	Optional English Title:Understand ing Drama in English	1)	Learners will be able to appreciate English Drama with an understanding of various dramatic texts.
		2)	Through responding to different plays learners will be introduced to various types of dramatic experiences.
		3)	Learners will be able to critically analyze texts from different dramatic genres.
B.A./B. Com/B.Sc. II YEARsemester III	English Communication -I	1)	The learners will be able to use the English language in a refined way for the personal and social purposes.

			2) The students will attain a higher level of understanding and skills in order to carry out communicative activities.
			3) Learners will be able to make practical use of the mechanics of the English language.
	B.A./B. Com/B.Sc. II YEAR semester IV	English Communication -II	1) Learners will be acquiring the skill of using English for media and electronic communication.
			2) The ability to communicate and interpret written texts shall be augmented.
	B.A.II YEAR semester IV Paper VIII	Optional English Title: Indian Writing in English	1) Learners will be able to appreciate the texts in Indian Writing in English
			2) Through responding to different texts of Indian Writing in English the learners will acquaint themselves with the wide range of expressions in the Indian English language.
			3) Learners will carry out the tasks of literary interpretation by studying the critical analyses of the prescribed texts.
	B.A.II YEAR semester III Paper VI	Optional English Title: American Literature	1) The learners will gain an overall insight of the American literature, and understand the background, historical context, the importance of American literature and its role in the society.
			2) The learners will identify, explicate, and respond to key themes and elements in American literature in various literary genres.
			3) Students will be enabled to review and recognize the body of literary works from America and will be able to understand the American spirit as well as to analyze various literary innovations and their culture.
	B.A.II YEAR semester IV Paper VII	Optional English Title: Indian	1) The students will acquire an introductory knowledge of Indian literary heritage.

		Literature in English Translation	2) The students will be familiarized with the significant socio-cultural issues in India through close reading of literary texts from diverse regions.
			3) The students will realize the intellectual potential available from the Indian literary texts from various Indian languages.
	B.A.II YEAR semester IV Paper VIII	Optional English Title: Women's Literature	1) Students will be able to critically analyze the structure and meaning of various literary works written by women authors.
			2) Students will acquire knowledge of the major concerns of the women through a reading of the representative works from different nations.
			3) Students will be acquainted with the richness and depth of the female experience as depicted through their literary representations.
	B.A.III YEAR semester -V	Optional English : Title of the course: Literary Criticism I Course/Paper code: DSE-ENG-I	1) Learners will be able to understand the historical background of the canon of Western Literary Criticism
			2) Learners will appreciate the various theories developed during the Classical times and European Renaissance
			3) Learners will be sensitized to the foundations of different critical traditions
	B.A.III YEAR semester -V	Optional English:Title of the course: Modern English Structures: Understanding English Phonology Course/Paper code: GE-ENG-I	1) The learners will be able to perceive, and transcribe the sounds of the English language, while learning the acoustic and articulatory properties.
			2) The learners will gain practical skills of transcribing data in the International Phonetic Alphabet (IPA).
			3) The ability of synthesizing speech will be acquired.
	B.A.III YEAR semester -V	Optional English-Title of the course: Literary Criticism II Course/Paper code: DSE-ENG-II	1) Learners will understand the basic principles of Literary Criticism as revealed from the study of the individual critics.
			2) Learners will perceive the development of English Literary Criticism through the ages.

			3) An ability to appreciate literary text through the practice of actual critical analysis will be gained.
	B.A.III YEAR semester -VI	Optional English Title of the course: Modern English Structures: Understanding English Grammar Course/Paper code: GE-ENG- II	1) The learners will be able to have an appreciable understanding of English grammar. 2) The learners will gain capability of producing grammatically and idiomatically correct spoken and written discourse. 3) The learners will acquire the skill of locating language errors and ambiguities.
MARATHI	सत्र -प्रथम, वर्ग - बी.ए.प्रथम वर्ष	विषय: आधुनिक मराठी कथा वाङ्मय पेपर - पहिला	1. कथा वाङ्मयाच्या विविध प्रकारांची ओळख
			2. विद्यार्थ्यांची कथात्मदृष्टी विकसित करणे.
			3. साहित्याभिरुचीच्या आकलनकक्षा रुंदावणे.
			4. भाषिक आणि वाङ्मयीन सौंदर्यदृष्टीचा विकास
			5. मराठीच्या विविध बोलीचा परिचय करून देणे.
		मध्ययुगीन आणि आधुनिक मराठी पद्य वाङ्मय, पेपर दुसरा *	1. काव्यप्रवाहातील विचारधारांची ओळख.
			2. कवितेतून प्रकट झालेल्या मानवी मूल्यांचे आकलन.
			3. भाषिक आणि वाङ्मयीन सौंदर्यदृष्टीचे विकसन.
			4. कवितेच्या विविध रचनाप्रकारांचा परिचय.
			5. प्राचीन आणि आधुनिक काव्यप्रकारांची ओळख
	बी.ए.बी.काॅम.बी.ए स्सी.प्रथम वर्ष, मराठी (SL) प्रथम,	*अक्षरलेणी* पेपर --पहिला	1. मध्ययुगीन व आधुनिक गद्य-पद्य। वाङ्मयाचा परिचय.
			2. मराठी वाङ्मयप्रकारांची ओळख.
			3. मराठी साहित्यनिर्मिती आणि त्यांच्या प्रेरणासंबंधी आकलन.
			4. मराठी भाषेतील व्याकरणाचे उपयोजन.
			5. भाषाज्ञान.
	सत्र -दुसरे, वर्ग - बी.ए.प्रथम वर्ष	मराठी कथात्म साहित्य पेपर:तिसरा	1. समाज परिस्थिती प्रकाश टाकणे.
			2. महामानवाच्या व्यक्तीमत्वामधून प्रेरणा.
			3. मानवीमूल्यांची रुजवणूक करणे.
			4. आत्मकथनपर, चरित्रपर, प्रवासवर्णनपर व इतर कथात्म साहित्यनिर्मिती प्रेरक वातावरणनिर्मिती.

		*आधुनिक मराठी कविता * पेपर- चौथा, ऐच्छिक मराठी	1.आधुनिक मराठी कवितेचा परिचय. 2.काव्यप्रवाहातील प्रकटलेल्या मानवीमूल्यांचे आकलन. 3.कवितेचे रचनाप्रकार, भाषा आणि प्रतिमासृष्टीचा अभ्यास. 4.मराठी काव्य प्रवाहातील वैचारिक अधिष्ठानांचा शोध.
बीए, बीकॉम, बीएस्सी प्रथम वर्ष। सत्र-दुसरे	साहित्यशिल्प- पेपर :दुसरा,		1.मराठी भाषेच्या उपयोजनाशी परिचय होईल. 2.मराठी साहित्याची ओळख. 3.गद्य आणि पद्य यातील विविध प्रकारांचा परिचय होईल. 4.मराठी भाषेच्या प्रमाणलेखनाची ओळख होईल. 5.जीवनमूल्ये व कलामूल्ये यांच्याशी परिचय होईल.
वर्ग :द्वितीय वर्ष (ऐच्छिक) सत्र -तिसरे	विषय: निवडक मराठी गद्य पेपर --- MAR -V		1.गद्य संकल्पनेचा परिचय. मानवी मूल्यांची रुजवण. 2.आत्मकथनपर,चरित्रपर प्रवासवर्णनपर व इतर गद्य साहित्य निर्मितीस प्रेरक. 3.वाचन आणि लेखन त्यांची अभिरुची वृद्धिंगत करणे. 4.मराठी साहित्याकडे वाचकांना आकर्षित करणे.
	मराठी नाट्यात्म साहित्य -पे.- MAR-06, VI.		1.आधुनिक मराठी नाटकाचा परिचय. 2.नाट्य प्रवाहातून प्रकटलेल्या मानवी मूल्यांचे आकलन. 3.मराठी वाङ्मय प्रवाहाच्या स्वरूप आणि व्याप्तीचा मागोवा. 4.नाट्यरचना प्रकार भाषा आणि प्रतिमा सृष्टीचा अभ्यास. 5.मराठी नाट्य प्रवाहातील वैचारिक अधिष्ठानाचा शोध.
वर्ग :द्वितीय वर्ष (ऐच्छिक) सत्र -चौथे	वडक कादंबरी वाङ्मय पेपर MAR VII		1.कादंबरी वाङ्मयाच्या विविध प्रकाराची ओळख होते. 2.विद्यार्थ्यांची कथात्म दृष्टी विकसित होते. 3.कादंबरी अध्ययनामुळे जीवन आकलन कक्षा रुंदावतात

		वैचारिक साहित्य पे. MAR-VIII	4.भाषिक आणि वाङ्मयीन सौंदर्यदृष्टीचा विकास.
			5.मराठीच्या विविध बोलींचा परिचय.
			1.विचारधारांची ओळख.
			2.मानवी मूल्यांच आकलन.
			3.भाषिक आणि वाङ्मयीन सौंदर्यदृष्टी चे विकसन.
			4.विविध तत्वज्ञानाचा परिचय
	बी.ए.बी.काॅम.बी.ए स्सी व्दितीय वर्ष सत्र- तिसरे,	अक्षरविद्या- पेपर तिसरा	5.सामाजिक प्रश्नाची ओळख
			1. मध्ययुगीन व आधुनिक गद्य -पद्य वाङमयाचा परिचय.
			2. मराठी वाङ्मयाची ओळख.
			3. मराठी साहित्यनिर्मिती आणि त्यांच्या प्रेरणा यांचे आकलन.
			4. मराठी भाषेतील व्याकरणाचे उपयोजन.
	बी.ए.बी.काॅम.बी.ए स्सी व्दितीय वर्ष सत्र- चौथे	साहित्यसरिता- पेपर-चौथा	5. मराठी गद्य -पद्य घटकांच्या स्वरूपाचे ज्ञान.
			1 मध्ययुगीन व आधुनिक गद्य -पद्य वाङमयाचा परिचय.
			2 मराठी वाङ्मयाची ओळख.
			3 मराठी साहित्यनिर्मिती आणि त्यांच्या प्रेरणा यांचे आकलन.
			4 मराठी भाषेतील व्याकरणाचे उपयोजन.
वर्ग :तृतीय वर्ष , सत्र -पाचवे	मध्ययुगीन मराठीवाङ्मयचा इतीहास,पेपर- DSE MAR 1	5 मराठी गद्य -पद्य घटकांच्या स्वरूपाचे ज्ञान.	
		1.मध्ययुगीन कालखंडातील महत्त्वपूर्ण भक्तिसंप्रदाय ची ओळख.	
		2.मध्ययुगीन कालखंडातील वाङ्मययातून प्रकट झालेल्या मानवी मूल्यांचे आकलन.	
			3.मध्ययुगीन मराठी वाङ्मयीन चळवळी व प्रेरणांचे आकलन.

			4.मध्ययुगीन वाङ्मययाच्या निर्मितीवर आणि वाङ्मययाच्या स्वरूपाचे ज्ञान
			5.मध्ययुगीन कालखंडातील वाङ्मययातून रचना प्रकाराचा परिचय.
		साहित्यविचार पे. -GE-MAR 1	1.डम्मयीन दृष्टिकोनाचे विकसन.
			2.भारतीय साहित्य शास्त्राची ओळख.
			3.पाश्चिमात्य साहित्य विचारांचा परिचय.
			4.रसविचारांचे पायाभूत ज्ञान.
			5.शब्दांच्या विविध अर्थांचे ज्ञान.
	वर्ग :तृतीय वर्ष, सत्र -सहावे	मध्ययुगीन मराठी वाङ्मययाचा इतिहास DSE MAR 2	1. मध्ययुगीन कालखंडातील महत्त्वपूर्ण भक्तिसंप्रदाय ची ओळख.
			2. मध्ययुगीन कालखंडातील वाङ्मययातून प्रकट झालेल्या मानवी मूल्यांचे आकलन .
			3. मध्ययुगीन मराठी वाङ्मयीन चळवळी व प्रेरणांचे आकलन.
			4. मध्ययुगीन वाङ्मययाच्या निर्मितीवर आणि वाङ्मययाच्या स्वरूपाचे ज्ञान
			5.मध्ययुगीन कालखंडातील वाङ्मययातून रचना प्रकाराचा परिचय
		भाषाविज्ञान व व्याकरण	1.भाषिक विज्ञानाची वृद्धी.
			2.मराठी भाषेच्या इतिहासाची ओळख .
			3.साहित्य स्वरूप आकलन.
			4.लेखन विषयक सजगता.
			5.मराठी व्याकरणीक घटकांचे ज्ञान.
HINDI	प्रथम वर्ष कला सत्र- I&II	कथा साहित्य (ऐच्छिक) I&III	i) हिंदी साहित्य की कहानी और उपन्यास विधा से छात्रों को परिचित कराना।
			ii) कथा साहित्य की लेखन शैली से परिचित कराना।
			iii) कथा साहित्य के माध्यम से छात्रों की चिंतन तथा लेखन कौशल की क्षमता को विकसित करना।
			iv) विविध पात्रों की मानसिकता एवं क्रिया कलापों से छात्रों में सही और गलत को परखने की क्षमता विकसित करना।

			v) कथा साहित्य के माध्यम से छात्रों को विविध समस्याओं से अवगत कर उन समस्याओं के समाधान के लिए उन्हें प्रेरित करना।
द्वितीय वर्ष कला III&IV	मध्ययुगीन काव्य& आधुनिक काव्य(ऐच्छिक)	i)प्रतिनिधिक मध्ययुगीन काव्य एवं संतों का सामन्य परिचय देना।	
		ii)प्रतिनिधिक आधुनिक काव्य एवं कवियों का सामन्य परिचय देना।	
		iii)छात्रों सांप्रदायिक सदभाव का निर्माण करना।	
		iv)समाज में एकता निर्माण का संदेश देना।	
		v)छात्रों राष्ट्र भक्ति एवं देश प्रेम की भावना को जागृत करना।	
द्वितीय वर्ष कला,वाणिज्य एवं विज्ञान III&IV	हिंदी भाषा कौशल III&IV	i) छात्रों में व्यवसायाभिमुख कौशल विकसित करना।	
		ii) कौशल के अनेक क्षेत्रों से हिंदी को जोड़ना।	
		iii) छात्रों में लेखन कौशल विकसित करना।	
		iv) छात्रों को रोजगार के अवसरों से परिचित एवं प्रेरित करना।	
		v) छात्रों को कौशल के माध्यम से सम्पूर्ण व्यक्तित्व को विकसित करना।	
		कौशल विकास के माध्यम से राष्ट्र निर्माण में योगदान देना।	
तृतीय वर्ष कला V	हिंदी भाषा(ऐच्छिक) X	i) हिंदी भाषा के प्रति छात्रों में रुचि उत्पन्न करना।	
		ii) भाषा के स्वरूप को समझना।	
		iii) हिंदी भाषा के प्रयुक्ति क्षेत्रों का परिचय कराना।	
		iv) भाषाई वैविध्य वाले भारत देश में हिंदी के महत्व को समझाना।	
		v) प्राद्योगिकी के युग में हिंदी भाषा की उपयोगिता को समझाना।	
		vi) हिंदी की संवैधानिक स्थिती से छात्रों को अवगत कराना।	
तृतीय वर्ष कला VI	हिंदी भाषा(ऐच्छिक) XII	i) भाषा शिक्षण के महत्व को प्रतिपादीत करना।	
		ii) हिंदी भाषा के व्याकरणिक कोटियों को समझना।	

			iii)भाषाई शुद्धता एवं कुशलता के माध्यम से रोजगार के अवसर बढ़ाना।
			iv) बदलते भाषाई परिवेश में परंपरागत भाषाई मौलिकता और लोकभावनाओं को समझना।
	<p>द्वितीय वर्ष कला,वाणिज्य एवं विज्ञान-III&IV</p>	<p>कथेतर गद्य (द्वितीय भाषा)- नाटक तथा प्रयोजनमूलक हिंदी III&IV</p>	i) द्वितीय भाषा के रूप में छात्रों को हिंदी भाषा और साहित्य का सामान्य परिचय देना।
			ii) हिंदी साहित्य की कथेतर विविध विधाओं का सामान्य एवं प्रतिनिधिक परिचय।
			iii) मानवी मूल्यों का निर्माण करना।
			iv) छात्रों को हिंदी भाषा के व्यावहारिक ज्ञान से अवगत करना।
			v) पर्यावरण संरक्षण एवं संवर्धन।
			vi) नाटक विधा का परिचय देना।
			vii) दलित एवं विकलांग विमर्श का परिचय देना।
			viii) रोजगार के संबंधी प्रयोजनमूलक हिंदी का परिचय देना।
HISTORY	B.A. First Year , Semester I	<p>Paper -I, History of Ancient India(upto 647 A.D.)</p>	1. This paper will helps students to know the archaeological and literary sources.
			2. The Students will know about the great kings in Ancient India.
			3. The Students will study the different religions.
			4. The students will study the process of decline of the great Dynasties.
		<p>Paper - II, History of India (648 to 1526 A.D.)</p>	1. This paper is useful to understand the political History.
			2. This paper helps students to understand the muslim invasion and their impacts on India.
			3. Student will study the Contribution of different dynasties in Indian History.
			4. Student will be able to acquire knowledge about changing dynasties and their impacts on Indian society
	B.A. First Year, Semester II	<p>Paper -III, History of Ancient India(upto 647 A.D.)</p>	1. This paper will helps students to know the archaeological and literary sources.
			2. The Students will know about the great kings in Ancient India

			3. The Students will study the different religions.
			4. The students will study the process of decline of the great Dynasties.
		Paper - IV, History of India (648 to 1526 A.D.)	1. This paper is useful to understand the political History.
			2. This paper helps students to understand the muslim invasion and their impacts on India.
			3. Student will study the Contribution of different dynasties in Indian History.
			4. Student will be able to acquire knowledge about changing dynasties and their impacts on Indian society.
	B.A. Second Year, Semester III	Paper -V Chhatrapati Shivaji and his Times (1630 A.D. to 1707 A.D.)	1) It will help the students to understand the most important and inspiring history of Medieval Maharashtra.
			2) It will help the students to understand the political and administration of this period.
			3) It will aware the students about various policies regarding Agriculture, Water management, Environment and Scientific approach of Chhatrapati Shivaji Maharaj
			4) The students will study the process of Mughal kings and British Governors.
	B.A. Second Year, Semester IV	Paper -VI & VIII History of India (1526 A.D. to 1707 A.D.)	1) This paper will help students to know the expansion of Mughal Empire.
			2) The Students will know about the great kings in this period.
			3) The Students will study the governor Generals policy.
			4) The students will study the process of Mughal kings and British Governors.
	B.A. Third Year Semester V	Paper -DSE HIS - I History of Modern India (1857A.D. to 1947 A.D.)	1. To enhance the national interest among the students.
			2. To support the spirit of competency.
			3. To inculcate the National and International virtues in the minds of students.
			4. To enlighten the spirit of fellow feeling.
			5. To elaborate the Modern Indian History in various contexts.

ECONOMICS	B.A. Third Year Semester V& VI	Paper -DGE HIS I & II Social Reformers in Maharashtra & Awakening Movements	1. To aware the students to know the contribution of Social Reformers.
			2. To contribute constructively towards the building of society.
			3. To make preparation for competitive examinations.
			4. To maintain the social harmony.
			5. To know the legacy of the great social reformers and thinkers.
		Paper -DGE HIS - I Social Reformers in Maharashtra & Awakening Movements	1. To aware the students to know the contribution of Social Reformers.
			2. To contribute constructively towards the building of society.
			3. To make preparation for competitive examinations
			4. To maintain the social harmony
			5. To know the legacy of the great social reformers and thinkers.
	B. A. First Year Semester - I	Paper-I Micro Economics (Compulsory)	i) Meaning, nature and scope will be studied in this course.
			ii) Student's ability will be utilized to tackle the current economic problems.
			iii) Students will adept more knowledge in the field of modern economics by studying this course.
			iv) This course will increase the utility and application to acquire more satisfaction in life.
		Paper-II Economy of Maharashtra (Optional)	1. Awareness about development in economy of Maharashtra will be created.
			2. Students will understand the various challenges of Economy in Maharashtra.
			3. Students will study the Problems of economy in Maharashtra.
			4. Students will enhance the different concepts of economy in Maharashtra.
			5. This study will suggest remedies for different issues of economy in Maharashtra.
	B. A. First Year Semester - II	Paper-III Micro	i) Student will get the knowledge about Production, Cost and Revenue.

		Economics (Compulsory)	ii) Students will be acquainted with the various markets from the point of view of competition.
			iii) This course will be helpful to realize the actual market through competitive point of view.
			iv) The acquisition of knowledge about providing share of different factors of production.
		Paper-IV Economy of Maharashtra (Optional)	1. Awareness about development in economy of Maharashtra will be created.
			2. Students will understand the various challenges of Economy in Maharashtra.
			3. Students will be study the problems of economy in Maharashtra.
			4. Students will be enriched with the different concept of economy in Maharashtra
			5. This study suggests remedies for different Problems in economy of Maharashtra.
	B.A. Second Year Semester III	Paper - V - Macro Economics - I (Compulsory)	1 This course aims to develop the broad conceptual frameworks, which will enable students to understand and comment upon real economic issues like inflation, money supply, GDP and their interlinkages
		Paper - VI - Quantitative Techniques - I (Optional)	1. The course is helpful to study other branches of economics and research. The course will be useful for the students to understand data analysis, estimation and inference since the course is best on the techniques of statistics.
		Paper - VI - Economics of Development (Optional)	1. Course will be useful in understanding the concept of development from many dimensions.
			2. Learners will be aware of the different approaches towards development.
			3. Course will be useful in understanding different government scheme in the process of economic development.
			4. Course enables learners with the current scenario of development among different countries.

	B.A. Second Year - Semester - IV	Paper - VII - Macro Economics - II (Compulsory)	This course aims to develop the broad conceptual frameworks, which will enable students to understand and comment upon real economic issues like employment and multiplier, acceleration, banking system, open economy, and their interlinkages. It will also allow the students to evaluate various macroeconomic policies in terms of a coherent logical structure.
		Paper - VIII - Quantitative Techniques - II (Optional)	1. Students will get knowledge about how the value of money is decided.
			2. Students will study price differentiation between base year and current year.
			3. Students will study the change in economic factors in course of times.
			4. Students will study the economic & social trend with the help of moving average method.
		Paper - VIII - Economics of Development and Environment (Optional)	1. Students would understand the Environmental Concept.
			2. Students will know the role of environment in the process of development.
			3. Students will have an idea about sustainable development & natural resource management.
			4. Learners will be familiar with the concept and theories of welfare
	B.A. Third Year Semester V	HISTORY OF ECONOMIC THOUGHTS-I (Optional) DSE-ECO- IX	1. Pupils will understand the basic economic concepts by studying the course.
			2. Students will be able to solve the economic problems by studying this course.
			3. Students will acquire the judgment power by studying the comparative approach.
		MATHEMATICAL ECONOMICS	1. Students will understand basic economic concept with the help of this course.

		-I (Optional) DSE - ECO - IX	2. This course is important to prepare the background for the post graduate course in Economics.
			3. Student who study this course will be eligible for MBA course in the future.
			4. This course will be useful for preparation of competitive exam.
			5. With the help of this course, the basic economic concept of the student will become clearer.
		INDIAN ECONOMY- GE - ECO -X	1. Student will acquire the knowledge of Indian Economy.
			2. Student will understand various challenges of Indian Economy.
	B.A.T.Y. SEMESTER – VI	HISTORY OF ECONOMIC THOUGHTS - II (Optional) DSE - ECO - XI	3. Student will be able to suggest various measures to policy makers for solution of economic problem.
			1. Agricultural Entrepreneurship will be adopted by pupils.
			2. Students will get knowledge of the exploitation of Indian Economy in the British rule.
			3. Students will know how much the political Leadership is successful in solving the economic problems of the society.
		MATHEMATI CAL ECONOMICS -II (Optional) DSE - ECO - XI	4. The students will know the importance of Eastern Economic Ideas on the world level
			1. Students will understand basic economic concept with the help of this course.
			2. This course is important to prepare the background for the post graduate course in Economics.
			3. Student who study this course will be eligible for MBA course in the future.
			4. This course will be useful for preparation of competitive exam.
			5. With the help of this course, the basic economic concept of the student will become clearer

	B.A.T.Y- SEMESTER - VI	INTERNATIONAL ECONOMICS (Optional) DSE - ECO - XI	International Economics is an exciting and dynamic subject that equips students with the tools which to tackle important real world issues in this age of globalization and financial integration.
		PUBLIC FINANCE - GE - ECO - XII	1. Student will able to analyze different concept of public finance.
			2. The student will understand the imbalance between public revenue and public expenditure.
			3. The students will suggest various measures to decrease deficit.
			4. The student will be able to evaluate working of recent finance commission.
POLITICAL SCIENCE	B.A. First Year Semester-I	INTRODUCTI ON OF POLITICAL CONCEPTS Paper - I	i) Pupils will understand the basic Political concepts by standing the course.
			ii) Students will be able to solve the Political problems by standing this course.
			iii) Students will acquire the judgment power by standing the various Political ideas, concepts and other Political issues concern with Politics.
		GOVERNME NT AND POLITICS OF MAHARASH TRA Paper - II	i) Students will understand the formation, Government and other Political issues concern with Maharashtra Government.
			ii) Student will be to solve the Political problems by studying this course.
			iii) Pupils will acquire to understand various Political issues, Political process and Political activity.
			iv) Students get various political ideas concern with state Government and other relevant Political issues.

	B.A. First Year Semester - II	INTRODUCTI ON OF POLITICAL CONCEPTS Paper - III	i) Pupils will understand the basic Political concepts by standing the course. ii) Students will be able to solve the Political problems by standing this course. iii) Students will acquire the judgment power by standing the various Political ideas, concepts and other Political issues concern with Politics.
		GOVERNME NT AND POLITICS OF MAHARASH TRA Paper - IV	i) Students will understand the formation, Government and other Political issues concern with Maharashtra Government.
			ii) Student will be to Solve the Political problems by studying this course.
			iii) Pupils will acquire to understand various Political issues, Political process and Political activity.
	B.A. Second Year (CBCS Pattern) Semester - III	INDIAN GOVERNME NT AND POLITICS Paper V	iv) Student get various political ideas concern with state Government and other relevant Political issues.
			1. To Prepare students for competitive exams like UPSC, MPSC and other Exams
			2. To expose the students with basic concepts and political institutions like Parliament, Supreme Court, Political Parties Constitution and Democracy etc.
			3. To introduce the students with the administrative and Political setup and Mechanism with roll and functions.
		INTERNATIO NAL RELATIONS Paper VI	4. To develop sensitive citizenship among the students
			The Utility of the course Lies in the course Constitution in raising the students awareness about the global International Politics with Key concepts approaches and Political Institutions like UNO. It will also helps students to prepare themselves for competitive exams like UPSC, MPSC etc. moreover it will career like Political analyst Media, Professionals and Ideal Politicians.

	B.A. Second Year (CBCS Pattern) Semester - IV	INDIAN GOVERNMENT AND POLITICS Paper VII	The outcome of course lies in building ideal citizens competition ready skilled, man power mass awareness about the political structure and functionary among the youth. It will also go a long way in building Democracy and mass awareness among with about Indian Constitutions with their Fundamental Rights and Duties.
		INTERNATIONAL RELATIONS Paper VIII	The Utility of the course Lies in the course Constitution in raising the students awareness about the global International Politics with Key concepts approaches and Political Institutions like UNO. It will also helps students to prepare themselves for competitive exams like UPSC, MPSC etc. moreover it will career like Political analyst Media, Professionals and Ideal Politicians.
	B.A. Third Year (CBCS Pattern) Semester - VI	INDIAN POLITICAL THOUGHT Paper-IX	This course will encourage students to understand and decipher the diverse and often contesting ways in which the ideas of nationalism, democracy and social transformation were discussed in Pre and Post-independence India.
		INDIA'S FOREIGN POLICY Paper-IX	This Course will encourage the student to undertake an in depth analysis of India's foreign policy.
		WESTERN POLITICAL THINKER Paper-X	The course will narrate students the legacy of the thinkers and orient them about continuity and change within the western political tradition. It helps them to study historical aspects western state and society.
	B.A.T.Y. Semester -VI	POLITICAL IDEOLOGY Paper-XI	1.This paper will acknowledge students with various classical political ideologies and its contemporary relevance.
			2.The main concern of this paper is to introduce variant stands elaborates in various political ideologies about individual, state and society and its dialectics.

		POLITICAL SOCIOLOGY Paper XI	1.This course will helpful learners to understand dynamics within political action, power and process in India and across the country.
			2.The main purpose of this course is to acquaint the students with interdisciplinary approach by connecting two separate disciplines.
		MODERN POLITICAL ANALYSIS Paper-XII	1.This paper content will helpful for student to draw new meaning as per recent time they can understand new concept of political science in the reference of modern age.
			2.This course main aim to acquaint to student about new concept in political science as like political Leadership, study of various approaches of human behavior in politics
SOCIOLOGY	B. A. First Year Semester-I	Paper- I Introduction to Sociology	Student will be able to demonstrate on understanding of how social call affects individual life. To understand society in context of the sociology theory: knowledge concepts.
		Paper- II New Changes in Social Institutions	Students will obtain a sociological understanding of diverse: social groups: organization and social institutions. Social institutions are usually conceived of as the basic focuses of social organization: common to all societies.
		Paper- II Agrarian Society: Structure and Change	Thus Agrarian Societies are characterized by their dependence on outside energy flows: low energy: density: and the limited possibilities of converting one every form into another. In order to increase production an agrarian society must either increase the intensity of production.
	B. A. First Year Semester-II	Paper- III Basic Concepts in sociology	To understand the basic concepts in sociology and their fundamental theoretical interrelationship: such that students will be able do fofine: gives examples: show interrelationships and demonstrate the relevance.

		Paper- IV Contemporary Social Institutions	Institutions can refer to mechanism of social order: which govern the behavior of set of individuals within a given community. Moreover: institutions are identified with social purpose: transcending individuals and intention by mediating the rules that govern living behavior. Debates about the social impact of sociology have been historically centered.
		Paper- IV Indian Rural Sociology	Importance of rural sociology in agricultural extension and interrelationship & with processes. This course explores social life along the rural community and also provides a broad introduction to be issues and perspectives in rural sociology.
	B.A. Second Year Semester III	V - Indian Society : Structure and Change	1.Sociologist are typically motivated the desire to better understand the principle of social life and by the conviction that understanding these principles may aid in the formulation of enlightened and effective social policy
			2.Social Structure of India underwent some changes. The Indian society in the recent past, particularly since the Independence.
			3.. Secularism and National integration are soul of India. This course gives insights about social change in India
		VI - Human Rights and Social Justice	1.Principles of human rights are fundamental rights.
			2.Social Justice and human rights have a shared goal human dignity, equally for all.
			3.Human rights can help to fight indignity. In addition to promoting equality generally human rights protect against direct and indirect discrimination based on certain characteristics

			4.Human rights provide legal framework that allows individuals to hold government to account and requires the state to create conditions necessary for the achievement for social justice.
	B.A. Second Year Semester IV	VII - Issues and Problems in Indian Society	1.Thomes pain adderss the individual's duty to "allow the same right to other as we allow ourselves."
			2.Demostrate how certain social contretion become dominat
			3.Distinguish how labeling something can create expretion about behaviourand action.
		VIII - Neo Social Movements	1.Social movements are a type of group action.
			2.The knowledge obtained in this social movementwas valuable because they could use it for the cause
			3.Social movements play such an important role in bringing about social change in political, religious, educational, health, corporate, government and other institutional areas.
	B.A. Third Year Semester V	DSE - A : Classical Sociological Thinkers - I	1.Sociology is branch of social sciences that uses systematic methods. T
			2.This course is to provide to the sociology students with the understanding of sociological theory.
			3.To train students for the application of these theories to social situations, acquaintance with the writing of these four thinkers, so as to equip the students with theoretical insights to know analysis and interpret the social scenario around them.
		DSE - A : Modern Sociological Thinkers - I	1.This course introduces modern sociologicaltheories, concepts and perspectives
			2.These thinkers gave shapes and new direction to the existing sociological knowledge
			3. These modern sociological thinkers developed new sociological perspectives also

		DGE – A : Methods of Social Research - I	1.This course aims to provide an understanding of the nature of social phenomena.
			2.The issue involved in social research and the ways and means of understanding and studying social reality
			3.there are different perspectives and methods (asa quantitative and qualitative research) of understanding social phenomena
	B.A. Third Year Semester VI	DSE – B : Indian Social Reformer - II	1.This course will help students to introduce the philosophy, thoughts, views and works of social reformer of India
			2.This course has aim to orient the students of sociology towards the contribution of modern social reformers of India who spent their entire life for the cause of social reforms
			3.This course would help to enlighten the understanding the importance of the thoughts of social reformers to understand the contemporary social ills, issues, problems and challenges
		DSE – B : Fundamental Indian Sociological Thinkers – II	1. Indian philosophy refers to ancient philosophical tradition of the India subcontinent.
			2.A thinking process based on an evaluation of objectives facts learn of the concepts of social change and social transformation in relation
			3. Logical thinking is process of clearly moving from one related to another. Social science refers to our distinct cultural milien and value attitude system.
		DGE – B: Techniques of Social Research - II	1.This course has importance in the field of sociological research
			2.Researchmethodology will be providing base for scientific thinking and rationalizing the minds, thoughts of students

			3.This course has major aims to provide basic and fundamental knowledge of research methodology
			4. This paper provides conceptual objectives, tools and techniques of research methodology.

BACHLOR OF SCIENCE PROGRAMME OUT COMES:

Programme Outcomes after the completion of Course:

1. The students will inculcate scientific temperament and attitude among themselves.
2. The qualities of a science faculty such as observation, precision, analytical mind, logical thinking, clarity of thought and expression, systematic approach, qualitative and quantitative decision making are enlarged.
3. The programme also empowers the graduates to appear for various competitive examinations. The students can choose the post graduate programme of their choice.
4. This programme trains the learners to extract information, formulate and solve problems in a systematic and logical manner.
5. This programme enables the learners to perform the jobs in diverse fields such as science, engineering, industries, survey, education, banking, development-planning, business, public service, etc. efficiently.

BACHLOR OF SCIENCE COURSE OUT COMES:

Subject Name	Class and Semester	Paper Name and Number	Course Outcomes
BOTANY	B.SC. I YEAR SEM-I	Paper -I Viruses ,Bacteria, Algae, Fungi, Lichens and Mycorrhiza	1. Understand the morphology, structure and importance of the various organisms
			2. Differentiate between various groups of Algae, Fungi, Bacteria, Viruses, and Lichens & Mycorrhiza
			3. Learn the life cycles of individuals belonging to Algae, Fungi, Bacteria, Viruses, Lichens & Mycorrhiza
	B.SC. I YEAR SEM-II	Paper -II Plant Ecology ,Phytogeography and Environmental Biology	1. Able to understand the ecological principles , interactions taking place in the Ecosystems and the flow of energy
			2. Learn about the concept of phytogeography and its relations with other disciplines
		Paper -III Bryophytes, Pteridophytes , Gymnosperms & Paleobotany	1. Learn the life cycles of individuals belonging to Bryophytes, Pteridophytes and Gymnosperms
			2. Learn about process of fossil formation and fossils plants

		Paper Taxonomy Angiosperms -IV of	1. Proficiency with the basic terminology of plant morphology
			2. Able to identify the major families of plants and their economic importance
			3. Understand the methods of collecting and preserving plants
	B.SC. II YEAR SEM-III	Paper- VI Plant Anatomy	1. The students will be able to understand the meristem (RAM & SAM) different simple and complex tissues and secondary growth in root and stem.
			2. Students will acquire knowledge of anatomy of root, stem and leaf in dicot and monocot plants.
		Paper- VII Plant Physiology and Biochemistry	1. Students will gain the knowledge of water and nutrient uptake, movement in plants, role of mineral elements, translocation of sugars, Role of various plant growth regulators, phytochrome in plants.
			2. Students shall learn different types of biomolecules and secondary metabolites
			3. Students will learn the flowering physiology, vernalization and seed dormancy in plants.
	B.SC. II YEAR SEM-IV	Paper- VIII Plant Embryology	1. This course will be able to demonstrate foundational knowledge in embryology of plants.
			2. Students will be able to understand the development of pollen, Ovule, and fertilization and palynological information.
		Paper- IX Plant Metabolism and Biotechnology	1. To study of different pathways in Photosynthesis , respiration , nitrogen metabolism
			2. To gain the knowledge of basic aspects and applications of plant tissue culture
	B.SC. III YEAR SEM- V	DSCB-I: CELL AND MOLECULAR BIOLOGY (Theory Paper-XII)	3. To study the different aspects of genetic engineering and bioinformatics
			1. The students will be able to understand ultra structure of a cell, cell wall, cell membrane, cell organelles and chromosomes, cell cycle and cell division.

			2. The students will be able to understand in detail the structure of DNA and RNA, protein synthesis, gene structure, gene mutation and related diseases
			3. Students will acquire knowledge of cell and molecular biology
		DECB-I: PLANT PATHOLOGY-I (Theory Paper-XIII)	1. The students will be able to understand fundamentals of plant pathology.
			2. The students will be able to understand in detail the process of plant disease development.
			3. Students will acquire knowledge of different plant diseases in different plants.
		DECB-I: SYSTEMATIC BOTANY-I (Theory Paper-XIII)	1. The students will be able to understand fundamentals of classification of angiosperms.
			2. The students will be able to understand in detail the principles of plant taxonomy.
			3. Students will acquire knowledge of different families of polypetalae, gamopetalae and apetalae.
	B.SC. III YEAR SEM-VI	DSCB-I: GENETICS AND PLANT BREEDING (Theory Paper-XIV)	1. Understand Mendelian genetics, gene interaction.
			2. Learn the sex determination, linkage, sex linked inheritance and genetic variations
			3. Understand various crop improvement methods in plant breeding
		DECB-I: PLANT PATHOLOGY-II (Theory Paper-XV)	1. The students will be able to understand fundamentals of aerobiology and seed pathology.
			2. The students will be able to understand in detail the process of plant Defense mechanism and management.
			3. Students will acquire knowledge of different plant diseases in different plants.
		DECB-I: SYSTEMATIC	1. Students will acquire knowledge of different families of monocotyledons

		BOTANY-II (Theory Paper-XV)	2. The students will be able to understand principles of taxonomy 3. The students will be able to understand in detail the origin of angiosperms.
Computer Science	B.SC. I YEAR SEM-I	Paper No. I Programming Logic Concepts	1. Student will be able to design algorithms to solve different problems 2. Student will understand how to solve problems using computers
		Paper No. II Designing of Web Pages Using HTML	1. Be able to use the HTML programming language 2. Understand the principles of creating an effective web page.
	B.SC. I YEAR SEM-II	Paper No-III Introduction to Data Structure	1. To develop application using data structures. 2. Students develop knowledge of applications of data structures including the ability to implement algorithms for the creation, insertion, deletion, searching etc.
			1. Course is designed to provide complete knowledge of C language to develop logics which will help them to create programs, applications in C. 2. Introduces the more advanced features of the C language.
		Paper No. IV Programming in C Language	1. Students will be able to the basic components of a computer Operating System. 1. Upon compilation of this course, students will be able to do programming independently and will also be able to build small applications.
			1. Students would be able to chose, escalate and establish a computer network 1. On completion of the course the student would be able to use Java integrated development environment to write, compile, run, and test simple object-oriented Java programs
	B.SC. II YEAR SEM-III	Paper No. VI Operating System	
		Paper No. VII Object Oriented Programming using C++	
	B.SC. II YEAR SEM-IV	Paper No. VIII Computer Networks	
		Paper No. IX Java Programming	

			2.they would be able to make elementary modifications to Java programs that solve real-world problems.
	B.SC. III YEAR SEM-V	Paper No. XII Software Engineering	1. Confidence of becoming a Software developer in order to get placement as well research activities
		Paper No-XIII(A) (Elective) Programming in Visual Basic	1.Confidence of becoming a Software developer in order to get placement as well as in research activities.
		Paper No-XIII(B) (Elective) Advanced JAVA Programming	1.To encourage the students to develop web-based applications.
	B.SC. III YEAR SEM-VI	Paper No. XIV Software Testing	1.Set the basic path to students towards becoming aSoftware Professional
		Paper No-XV (A) (Elective) Relational Database Management System	1.Knowledge of RDBMS 2.Knowledge about the Use of SQL & PL/SQL for RDBMS
		Paper No-XV (B) (Elective) Data Mining[B]	1.Knowledge of Data mining concept and techniques
Chemistry	B.SC. I YEAR SEM-I	Paper-I: Organic + Inorganic Chemistry, (CCC-I)	1.Student should learn basic concept of organic chemistry, Nomenclature.
			2. Student get well acquainted with functional group in organic chemistry
			3. To understand the basic concepts and differences aliphatic hydrocarbons.
			4. To know about term cycloalkane , cycloalkene and diene
			5. Learn and practice about organic compounds with their names
		Paper-II (CCC-I) Physical + Inorganic Chemistry	1. Learning and understanding rules of logarithm, Rules of drawing graph, Derivatives, Integration , different mathematical concept and SI units, and their use in solving numerical. 2. Learning surface phenomena at heterogeneous surfaces.

			3. Student will learn the basic knowledge of gas phase, Kinetic molecular theory, critical phenomenon , liquefaction and molecular velocities
			4. To impart knowledge about solid phase, crystallography and some crystal structure
			5. General characteristics of s-block elements, oxides, hydroxide, carbonate & its complexes
	B.SC. I YEAR SEM-II	Paper-III: Organic + Inorganic Chemistry, (CCC-II)	1. Student should learn the concept of aromatic hydrocarbons, Aromaticity and antiaromaticity.
			2. Student should understand the phenols and synthesis of phenols
			3. Student knows about the haloalkene and haloarenes compounds.
			4. To know the concepts of carboxylic acids and their derivatives.
			5. To know about the types of alcohols and reaction of epoxide.
		Paper-IV (CCC-II) Physical + Inorganic Chemistry	1. To impart knowledge of atomic structure, different theories of atomic structure, rules of electronic configuration and quantum numbers.
			2. Learning of properties of liquid phase as surface tension, Viscosity and parachor.
			3. Student will learn the basic knowledge of colloidal state, types, preparation, properties and applications of colloidal state.
			4. Learning and understanding of catalysis, types of catalysis and characteristics of catalyzed reactions.
			5. To understanding the chemical bond and its different types of bonds.
	B.SC. II YEAR SEM-III	Paper-VI, (CCC-III, Section A) Organic & Inorganic Chemistry	1. Learn the mechanism of name reactions.
			1. Know the Synthesis, and Reactions of Aromatic Carboxylic and Sulphonic acids
			2. Know the Synthesis, and Reactions of Organometallic compounds

			3.Learn the synthesis, mechanism, applications of active methylene compounds.
			4.Gathering basic knowledge of Oils, Fats, Soaps and Detergents.
			5.Understand the basic principle and application of Qualitative Analysis.
		Paper-VII, (CCC III, Section B) Physical & Inorganic Chemistry	1.Write an expression of Davisson-Germer experiment.
			2.Derive Schrodinger wave equation
			3.Understand De-Broglie's hypothesis and uncertainty principle
			4.Solve the numerical problems based on De-Broglie
			5.Understand concept of entropy.
	B.SC. II YEAR SEM-IV	Paper-VIII, Organic & Inorganic Chemistry	1.Learn the stereoisomerism of Chiral compounds
			2.Know the Classification, and Reactions of carbohydrates
			3.Know the Synthesis, and Reactions of Nitrogen Compounds.
			4.Gathering applications of Reagents in Organic Synthesis
			5.Understand the Characteristics of d-Block Elements.
		Paper-IX, Physical & Inorganic Chemistry	1.Know the rate constant and factors affecting rate of reactions
			2.Write an expression for rate constant (K) for first order, second order reaction
			3.Know the terms cell constant, specific conductivity, equivalent conductivity and molar conductivity
			4.Know the applications of Kohlrausch's law
			5.Compare between thermal and photochemical reactions.
	B.SC. III YEAR SEM-V	Paper-XII, (DSEC-V, Section A) Organic + Inorganic Chemistry	1.After completion of this course, student will be able to Organic reaction and mechanism pathways.
			2.Nomenclature of various heterocycles
			3.Recognize and comment on different synthetic drugs and dyes
			4.Able to discuss the uses and synthesis of some vitamins and pesticides

			5. Understand the basic principle and application of coordination complexes
		Paper-XIII, (DSEC-V, Section B) (B1) Physical & Inorganic Chemistry	1. Understand the concepts of molecular Spectroscopy and its applications
			2. Analyze Rotational, Vibrational and Raman Spectra
			3. Interpret the theoretical and experimental methods of chemical kinetics
			4. Know the theory and application of Distribution law
			5. Explain the Nomenclature, classification and application of Organometallic Compounds
	B.SC. III YEAR SEM-VI	(DSEC-VI, Section A) (A1) Organic & Inorganic Chemistry Paper-XIV	1. Learn the basic principle and terms used in UV, IR & NMR Spectroscopy.
			2. Apply spectroscopic techniques in analyzing the structure of simple organic molecules.
			3. Acquire the basic knowledge and synthesis of polymers
			4. Describe the types of Rearrangement.
			5. Postulates and limitations of VBT and CFT
		(DSEC-VI, Section B) Physical & Inorganic Chemistry Paper-XV	1. Basic concepts of electrochemistry and its applications
			2. Understanding the Nernst heat theorem and the Thermodynamics open system
			3. Know the Vant-Hoff's Reaction Osochore and numerical on it
			4. Biological role of alkali and alkaline earth metal ions
			5. Describe the structures and functions of Metal Cluster
Mathematics	B.SC. I YEAR SEM-I	Paper I: Calculus-I (Differential Calculus)	1. Understanding concept of Limit, Continuity of Single and two variable Functions
			2. Find the Higher order derivatives of Product of Functions
			3. Expand functions in terms of infinite series.

			4. Find Equation of Tangent, Normal and Length of Tangent, Normal, Subtangent, Sub-normal
			5. Understanding of Mean Value Theorem concepts.
		Paper II: Algebra and Trigonometry	1. Add, Subtract and Multiply two Matrices.
			2. Recognize the different types of Matrices
			3. Find the Inverse of invertible Matrices
			4. Determine the Rank of a Matrix
			5. Transform matrix to Row Echelon form
	B.SC. I YEAR SEM-II	Paper III: Calculus-II (Integral Calculus)	1. Apply method of integration to find the integral of function.
			2. Solve examples of definite integrals using Properties definite integrals
			3. Find the area and volume of given shape
			4. Understanding concept of Gamma and Beta Functions.
			5. Solve problems on Multiple Integrals.
		Paper IV: (Geometry)	1. Understanding concepts on Three Dimensional Geometry.
			2. Find equations of Right lines, Planes, Spheres, Cones and Cylinders.
			3. Find the Direction cosines of any line under the different given conditions
			4. Understand the intersection of any two or three, three dimensional geometrical figures
			5. Transform the equation of a plane to the normal form
	B.SC. I YEAR SEM-III	Paper VI: Real Analysis-I	1. Understanding the basic concept of sets and their properties.
			2. Understanding the concept of a neighborhood of a point, interior points of a set, open set
			3. Understanding concept of limit points of a set, closed set, closure of a set, dense set

B.S.C. II YEAR SEM- IV			4. Understanding the basic concept of sequences, subsequences, bounds of sequences, limit point of sequences, general principle of convergence, different types of sequences.
			5. Understanding the concept of infinite series, different types of series, the general principle of convergence
		Paper VII: Group Theory	1. Understand the concepts on an equivalence relation.
			2. Find the examples of equivalence relation.
			3. Check whether the given set, is a group for the given operation or not.
			4. Understand the general properties of groups.
			5. Solve problems on groups.
		Paper VIII: Ordinary Differential Equations	1. Understanding concept of solution of differential equations, order and degree
			2. Transform the equations into variable separable form.
			3. Transform first-order non-homogeneous equation in x and y to homogeneous equation in x and y and solve it.
			4. Find the equations that can be resolved into components equation and solve it.
			6. Find the solutions when the auxiliary equations are equal, different, repeated, and imaginary roots
		Paper IX: Real Analysis-II	1. Understand the meaning of interval, subinterval, partitions, and their refinement.
			2. Understanding the basic concept of upper integral and lower integral and Riemann integral
			3. Understanding difference between upper sum, lower sum and Riemann sum
			4. Acquire the idea about Riemann Integrability and Riemann Integration
			5. Understand various theorems associated with Riemann Integration
		Paper X: Ring Theory	1. Understand given algebraic structure is a Ring or not.

			2. Construct the examples of ring with known examples of ring
			3. Differentiate between zero-divisors and non-zero-divisors in a given ring.
			4. Check whether given two rings are isomorphic or not
			5. Check whether the given ideal of a ring is a principal ideal or not.
		Paper XI: Partial Differential Equations	1. Classification of PDE.
			2. Solve linear as well as non-linear PDE of first and second order.
			3. Apply PDE techniques to predict the behavior of certain phenomena
			4. Solve real problems by identifying them approximately from the perspective of PDE
			5. Mathematical formulation of real problem precisely.
	B.SC. III YEAR SEM-V	Paper XII: Metric Spaces	1. Demonstrate an understanding of metric spaces and subspaces by proving unseen results
			2. Produce examples and counterexamples illustrating the mathematical concepts.
			3. Understand the concepts of open and closed sets.
			4. Understand the concepts and develop skill to check the positions of a point in the space
			5. Understand the concepts of convergences and completeness.
		Paper XIII: Linear Algebra	1. Understand and prove algebraic statements about vector spaces, subspaces, basis, Inner product spaces.
			2. Determine a basis and the dimension of finite dimensional space.
			3. Understand and prove statements about linear transformations
			4. Find the kernel, range, rank and nullity of linear transformation.
			5. Determine eigen values and eigen vectors.
		Paper XIV (A): Operation Research	1. Formulate a given simplified description of a suitable real-world problem as a linear programming

B.SC. III YEAR SEM- VI			2. Sketch a graphical representation of a two-dimensional linear programming problem.
			3. Solve a two-dimensional linear programming problem graphically
			4. Use the simplex method to solve simple linear programming models by hand.
			5. Understanding transportation problem and solve simple assignment problems.
		Paper-XV: Complex Analysis	1. Operate basic mathematical operations with complex numbers in Cartesian and 7 polar forms.
			2. Demonstrate the ability of limit, continuity, analyticity of a function.
			3. Find the derivative and integral of a complex variable function.
			4. Work with exponential and logarithmic functions.
		Paper XVI: Integral Transforms	1. Understand the concept of Integral Transforms
			2. Identify integral transforms by their integration limits and kernels
			3. Obtain integral transforms of functions
			4. Know the formulae for integral transforms of standard functions
			5. Understand various properties of integral transforms
			6. Apply the integral transforms for evaluating integrals
		Paper XVII(C):Elementary Number Theory	1. Apply different methods of proofs including induction, contradiction, counter ex-amples to verify mathematical assertions
			2. Explain basic concepts like divisibility, greatest common divisor, congruences, linear congruences.
			3. Solve systems of Diophantine equations using the Euclidean algorithm and Chinese remainder theorem
			4. Demonstrate knowledge and understanding of prime numbers.
			5. Use Fermat's theorem and Wilson's theorem.

Physics	B.SC. I YEAR SEM-I	Paper – I Mechanics and Properties of matter.	1. Students should understand motion and their applications in various dynamical situations.
			2. Students should revise the knowledge of scalars, vector Units and dimensions and these are essentials in solving problems.
			3. To introduce about gravity, laws and different parameters
			4. Concept of properties like viscosity, surface tension and elasticity can be explained and has great importance in day to day life
		Paper – II Mathematical Methods in Physics	1 Students should revise the knowledge of calculus, vector and probability and these are essentials in solving problems.
			2 Explains and differentiate vector and scalar field
			3 Partial differential equations are used to formulate and solution of physical and other problems involving functions of several variable such as sound, heat electricity
			4 Fourier series is used to represent periodic function by a discrete sum of complex exponentials
	B.SC. I YEAR SEM-II	Paper – III Heat and Thermodynamics	1 To study the basics of heat and its different forms
			2 Basic concept of thermodynamics and basic aspect of kinetic theory
			3 Carnot's cycle and engine is basic of all heat engines and make use of properties of thermodynamics to transform heat into work
			4 Behavior of different gases and systems are important part of life
		Paper – IV Electricity and Magnetism	1 To introduce to students concept of statics and dynamical electrical magnetic field

			2	To introduce to students the sources for generating electrical and magnetic fields
			3	Understand the basic difference between AC and DC circuits and their functioning
			4	Understand the roll of electricity in day to day life
	B.SC. II YEAR SEM-III	Paper - VI Waves and Oscillations	1	To introduce to students concept of mechanical waves and their properties
			2	To introduce to students to sources for generating mechanical waves
			3	Understand the basic difference between progressive waves and stationary waves
			4	Understand the roll of acoustics and ultrasonic waves in day to day life
		Paper - VII Statistical Physics, Electromagnetism and Theory of Relativity	1	To introduce to students concept of microscopic and microscopical world
			2	To introduce to students Maxwell's equations and their applications in electromagnetic waves
			3	Understand the basic difference between relativistic and nonrelativistic mechanisms
			4	Understand roll of statistical mechanics in day to day life
	B.SC. II YEAR SEM-IV	Paper - VIII Optics and Lasers	1	To introduce to students concept of optics and its applications
			2	To introduce to students properties of light such as interference, polarization, diffraction etc
			3	Understand the basic difference between Interference and diffraction
			4	Understand the roll of laser in day to day life.

		Paper - IX Basic Electronics	1 To understand the concept of semiconductor, semiconductor diodes and their characteristics
			2 To know the construction ,working of transistors and their applications
			3 To use transistors in different combinations
			4 Understand the roll of amplifiers and oscillators in day to day life
	B.SC. III YEAR SEM-V	Paper - XII Quantum Mechanics	1 This course will enable the students to get familiar with dual nature of light, matter waves and Uncertainty principle and Schrodinger's equation
			2 Understand behavior of quantum particles
			3 Introduce to students the world of microscopic particles
			4 Make connection between rules governing microscopic particles with that of macroscopic bodies around us
		Paper- XIII Solid State Physics	1 Provide fundamental knowledge of crystallography
			2 Principles behind the formation of matter, their structure and physical properties
			3 To understand the relation between internal structure and various properties of matter
			4 Students will have scope in research of material science
	B.SC. III YEAR SEM-VI	Paper - XIV Atomic and Molecular Physics	1 Introduce students to the world of atoms, molecules and nuclii
			2 Understand the basic atom models, modern concept of atoms and molecules and nuclear phenomenon.
			3 To understand the interaction of atoms and molecules with electric and magnetic fields
			4 To understand the nuclear fusion and their applications for mankind

		Paper - XV Digital and Communication Electronics	1 Enables to understand importance and intercomvertibility of various number systems
			2 Coding and its uses in modern communication system
			3 Understand students about principle and working of logic gates
			4 Understand students about principle and working of transmitter and receivers in modern communication system
ZOOLOGY	B.Sc I Year/ Sem I	Paper Biodiversity invertebrates -1 of	1 The student will be able to identify a give invertebrates up to Class level.
			2 Ability to understand the contribution of invertebrates in the Biodiversity index of any given habitat.
			3 Ability to understand and appreciate the ecological and economic importance of invertebrates and vertebrates.
			4 Ability to identify and describe external morphology and internal anatomical features of representative invertebrate species
		Paper-2 Biodiversity of vertebrates	1 The student will be able to identify and understand the Biodiversity of chordates
			2 The Ability to understand anatomical relation between different vertebrate classes.
			3 The learner will be able to understand the economic importance of chordates.
	B.Sc. I year /Sem II	Paper-3 Comparative anatomy of vertebrates	1 The student will be able to identify and understand comparative anatomical structure of vertebrate organ systems .
			2 The learner will be able to understand the evolution of various organs and systems in the vertebrate According to its environment.
			3 understand the plasticity of organ systems to adapt to the environment and acquire different novel forms.

		Paper-4 Developmental Biology of vertebrates	1 The student Will be able to explain the basics Processes of vertebrates embryonic Development.
			2 Ability to describe the various steps in vertebrates development.
			3 Identify and explain about the different embryonic structures .
			4 Describe the functions of different extra embryonic structures.
			5 Understanding of the assisted reproductive technologies.
	B.SC. II year / sem III	Paper-6 Physiology	1. Monitor their blood pressure and identify Blood groups.
			2. Understand Function and types of heart and circulatory system.
			3. Appreciate the basic function of kidney, main function of nerves.
			4. Acquire knowledge on the nature and functions of hormones and learn the mechanism of hormone action.
			5. Learn the structure and functions of Endocrine glands.
			6. Understand the structure, development and function of reproductive organs in human.
	B.SC. II year / sem III	Paper-7 Biochemistry	On successful completion of the course, the students will be able to
			1. Understand the chemical structure and functions of various biomolecules
			2. Learn the signaling of biomolecules in cell membrane.
			3. Understand the correlation between metabolism of different types of biomolecules.
	B.SC. II year	Paper-10 Physiology & Biochemistry	1. Students able to improve the skills in microscopy, slide preparation, observations, drawings and laboratory techniques.
			2. To acquaint the students with operations of the different laboratory equipment.

			3. Ability to understand the detection of blood groups of humans.
			4. Ability to Understand the estimation of blood cell counts, Haemoglobin content in humans.
			5. To acquaint the students with operation of clinical procedures for blood & urine analysis.
	B.SC. II year/Sem IV	Paper-8 Cell Biology & Genetics	On successful completion of the course, the students will be able to
			1. Understand the structure and function of the cell as the fundamentals for understanding the functioning of all living organisms.
			2. Understand structures and various cellular functions associated with the macromolecules found in cells.
			3. Acquire knowledge of Mendelian Genetics and its Extension.
			4. Graduates will be able to explain and interpret various processes, phenomena, states and evolutionary tendencies at a biological system level.
	B.SC. II year/Sem IV	Paper-9 Evolutionary Biology & Genetic Engineering	On successful completion of the course, the students will be able to
			1. Understand the theories and concepts of evolution.
			2. Learn the process of evolution in animals.
			3. Understand the patterns of evolutionary changes in animals.
			4. Understand the organization and functions of genetic material in the living world.
			5. Understand the Recombinant DNA Technology.
	B.SC. II year	Paper-11 Cell Biology & Genetics Evolutionary Biology & Genetic Engineering	1. Students would be able to prepare temporary squash preparations of onion root tips for mitosis.
			2. Demonstrate the genetic traits in Man.

			3. Ability to culture Drosophila flies in the laboratory.
			4. Ability for mounting of salivary glands of Drosophila larvae.
			5. Students are able to understand the outline of Genetic Engineering.
			6. Ability to Learn the role of Genetic Engineering in biology.
	B.SC. III year/ Sem V	Paper-12 Ecology & Zoo-Geography	1. Demonstrate knowledge of biotic and abiotic interactions.
			2. Express understanding of environmental issues, and inter-relation between different components of an ecosystems.
			3. Ability to elaborate about distribution and abundance of organisms.
			4. Apply different experimental techniques to study any ecosystem or its components.
			5. Describe the relation between structures and function species in environment.
			6. Display knowledge of natural resources and pollution management techniques.
	B.SC. III year/ Sem V	Paper-13A Pisciculture	1. Ability and skill to design and construct a fish farm.
			2. Skill to describe and undertake different methods of fish breeding.
			3. Describe different food fish species and their capture methods used in India.
			4. Elaborate about different fishing craft and gear used in Indian capture fishery.
			5. Knowledge of fish diseases and skill to treat sick fish with appropriate techniques.
	B.SC. III year/ Sem V	Paper-13B Applied Parasitology -1	1. Demonstrate understanding of basics Applied parasitology; host-parasite relationships and life cycle of parasites.
			2. An understanding of epidemiology, disease transmission and control & treatment of parasitic diseases caused by protozoans and Platyhelminthes.

			3. An ability to identify and describe common protozoan and helminth parasites.
			4. Knowledge of locally occurring human parasites and national parasitic diseases.
			5. An understanding of economic cost of animal and human parasitic diseases.
	B.SC. III year/ Sem VI	Paper-13C Entomology	1. Ability to describe general entomology and elaborate on taxonomy of insects.
			2. Describe the morphology and anatomy of insects.
			3. An understanding of biology and ecology of insects.
			4. Knowledge and skill of insect collection, preservation and curation.
	B.SC. III year/ Sem V	Paper-13D Environmental Biology-1	1. Knowledge of the structure and function of earth's ecosystem.
			2. An understanding of different types of ecosystems and biodiversity
			3. An ability to classify biodiversity and identify threats to biodiversity.
			4. An understanding of human influence on biodiversity.
			5. Knowledge of modern tools and technique for study and conservation of ecosystem and wildlife.
	B.SC. III year/ Sem VI	Paper-14 Ethology, Biometry & Bioinformatics	1. An appreciation of animal behavior and complexities of ethology.
			2. Knowledge of basic concepts and techniques of biometry.
			3. Knowledge and skill to apply the techniques statistical methods in biology.
			4. Knowledge and understanding of practical use of computers in bioinformatics.
			5. An understanding of the use of biological databases in research.

	B.SC. III year/ Sem VI	Paper-15 Aquaculture	1. Knowledge and understanding of aquaculture methods, mariculture, and fish processing.
			2. An understanding of the different man-made hazards to aquaculture.
			3. Knowledge and skill to use different species of locally available larviculous fish in vector control.
			4. Knowledge and understanding of the role of Government agencies in development of aquaculture.
	B.SC. III year/ Sem VI	Paper-15-B Applied Parasitology -2	1. An understanding of Parasitology of Nematodes and Arthropods.
			2. Knowledge of morphology, biology, taxonomy & pathogenicity of nematodes in plants and animals.
			3. Knowledge and skill to implement control measures against nematode parasites.
			4. Understanding and knowledge of arthropods of public health importance.
			5. Knowledge of vector-host-pathogen relationships in arthropod transmitted diseases.
			6. An understanding of the different surveillance techniques and diagnosis methods used in control of and management of vector-borne diseases.
	B.SC. III year/ Sem VI	Paper-15-C Entomology-2	1. An understanding and knowledge of ecology & biology of medically and agriculturally important insects.
			2. Knowledge of the different beneficial and harmful insects.
			3. An understanding of insect control methods- cultural, physical, biological, chemical & IPM.
			4. Knowledge of types of insecticides and problems associated with their use.
			5. Knowledge and skill of application of insecticides & maintaining pest control equipment.

	B.SC. III year/ Sem VI	Paper-15- Environmental Biology-2	D	1. Ability to assimilate causes of pollution, and its effects on environment.
				2. Awareness about environmental issues and problems at local, national and international level.
				3. An understanding of the laws and agencies pertaining to protection of environment.
				4. Knowledge about environment, pollution and related problems.
	B.SC. III year	Sec -Z III Parasites of Public Health Imp		1. Knowledge and understanding of biology of parasites of public health importance.
				2. Recognize and appreciate the medical importance of common arthropods and diseases caused by them.
				3. Flawlessly perform collection, processing, identification and reporting of parasites of public health importance
	B.SC. III year	Sec -ZIII Vermiculture & Vermicomposting	F	1. Knowledge of morphology and biology of earthworms used in vermiculture.
				2. Ability and skill of rearing earthworms and using them in vermicomposting.
				3. Proper operating of implements and equipment used in vermicomposting
	B.SC. III year	Sec -Z-IV Aquarium Keeping		1. Describe different types of aquariums and raw material used to fabricate them.
				2. Ability to properly handle material and accessories for aquarium fabrication and installation.
				3. Identify water parameters and adjust them to normal conditions.

BACHLOR OF COMMERCE PROGRAMME OUT

COMES:

Programme Outcomes after the completion of Course:

1. The Commerce graduates would be able to acquire the fundamental knowledge of business and commercial activities.
2. The programme enables the graduates to appear exams such as Banking, CA, CS, ICWA etc.
3. The programme helps the students to acquire the knowledge of accountancy, management principles, insurance transactions, business economics and financial management.
4. The students also obtain knowledge in the field of management accounting, corporate accounting, statistical and mathematical techniques and knowledge related to corporate law and business laws.
5. The students can have various opportunities in business, banking and industry.

BACHLOR OF COMMERCE COURSE OUT

COMES:

CLASS	PAPER	COURSE OUTCOME
B. Com I Semester I	Fundamental of Financial Accounting	Student Can Understand the: i) Accounting Knowledge ii) Application of Accounting in Business
	Business Statistics	Student can understand the basic concept of statistics and its application in business and data analysis
	Business Economics-I	Students will be acquainted with the business economic principles and theories as are applicable in business.
	Fundamentals of Business Communication	Adequate Knowledge about good communication in business
	Computer for Business	Adequate Knowledge about Information technology
B. Com I Semester II	Financial Accounting	Student Can Understand the : i) Accounting Knowledge ii) Application of Accounting in Business

	Business Statistics and Mathematics	Student can understand the basic concept of mathematics and its operational use in various business operations.
	Business Economics II	Students will be acquainted with the market structures and theory of distribution is as applicable in business
	Modern Business Communication	Adequate Knowledge about good communication in business
	Tally ERP 9.0	i) To develop awareness about computerized accounting ii) To know the recent advances in the computerized accounting iii) To develop knowledge about Tally iv) To create ability to work with the Tally
B. Com II Semester III	Corporate Accounting	1. The course is beneficial to understand the provision of company act 1956 regarding the preparation of accounts. 2. It is beneficial for students to move in to advance areas i.e. C.A, I.C.W.A, CS etc. 3. It could help graduates to work as financial analyst, HRM officers. 4. It provides the knowledge of differentiating the profit Prior and post Incoorporation. 5. It provides the basic concept of knowledge of buyback, forfeitures of shares.
	Cost Accounting	On completion of this course students will be capable for 1. The selection of the appropriate cost accounting and their impact on the business policy. 2. The determination of cost as per element per unit of production. 3. The Identification and control of cost of production. 4. Becoming a superior Cost accountant and cost analyst.
	Principles of Business Management	1. Successfully completion of this course, students will be able to understand the Managerial functions. 2. To understand the way of implementation of the planning process within the organisation.
	Mercantile Law	Students will be able to apply and follow the rules and regulations as per the various business and mercantile laws.

	Fundamentals of Income Tax	<p>1. After Completion of course students will be capable to describe the provisions in the corporate tax law which can be used for tax planning.</p> <p>2. Students can well define the residential status of the assets.</p>
B. Com II Semester IV	Advance Corporate Accounting	<p>1) Student can acquire an idea about internal reconstruction of the company</p> <p>2) The learn and understand how the two companies amalgamated</p>
	Advanced Cost Accounting	<p>1) It will assist to student in company decisions making in practical manner</p> <p>2) Students has an opportunity to become a cost analyst and cost accountant</p>
	Business Management	<p>1.It is beneficial to become successful manager.</p> <p>2.It is very useful to apply theories and techniques of management in practical life.</p> <p>3. It develops managerial skills among the students.</p>
	Corporate Law	<p>1) Student know the procedure of conducting meetings</p> <p>2) Student has an opportunity to become a company secretary</p>
	Income Tax Law and Practice	<p>1) Student able to make differentiate the direct and indirect tax</p> <p>2) Student acquaint the knowledge and able to file tax return on individual</p> <p>3) To learn and make able to compute total Income and define tax compliance and structure</p> <p>4) Enable to understand amendment made from time to time by finance department</p>
B. Com III Semester V	Advanced Accounting - I	Student can acquire knowledge of advance level of accounting for professional
	Management Accounting - I	Students can take managerial decisions regarding finance of the business
	Auditing-I	Regarding minute study to find out the fraud and errors in accounting
	Human Resource Management	Regarding the major living aspect of business i.e. human resources, helps to know the recruitment and other basic needs.
	Banking and Finance-I	I) Students will be able to understand the structure of banking and the functions of a banker.

		II) It is very useful in understanding various banking functions and the operations and procedures in banking in general and from banking exams point of view in particular
B. Com III Semester VI	Advanced Accounting-II	Student can acquire knowledge of advance level of accounting for professional
	Management Accounting-II	Students can take managerial decisions regarding finance of the business
	Auditing-II	Regarding minute study to find out the fraud and errors in accounting
	Marketing Management	To aware oneself in respect of difference between sales and marketing
	Banking and Finance-II	I) Students will be able to understand the structure of Indian financial system and regulatory bodies like RBI and SEBI II) It is very useful in understanding the structure of money market and capital market and also the recent trends in banking.