



LOKNETE DR. BALASAHEB VIKHE PATIL  
(PADMA BHUSHAN AWARDEE)  
PRAVARA RURAL EDUCATION SOCIETY

**ARTS, SCIENCE & COMMERCE COLLEGE**  
**KOLHAR**

Tal. Rahata, Dist. Ahmednagar, Pin - 413 710  
NAAC Accredited at 'A' Grade with CGPA 3.10

## **Program Outcomes, Program Specific Outcomes and Course Outcomes**

### **Department of English**

<b>PROGRAMME: B.A. ENGLISH</b>	
<b>Programme Outcomes</b>	PO-1. Demonstrate an attitude of service and commitment to social change
	PO-2. Educate students in both the artistry and utility of the English language through the study of literature.
	PO-3. Students should be proficient in oral communication and writing.
	PO-4. Students should be able to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres.
	PO-5. Creative ability.
<b>Program Specific Outcomes</b>	PSO-1. Understand the values of literature in life.
	PSO-2. Appreciate the literary works
	PSO-3. Know the literary theories, terms and concepts in Criticism.
	PSO-4. Attempt creative writings.
	PSO-5. Know phonological and morphological aspects of English.
	PSO-6. Use English effectively in formal and informal situations.
<b>Course Outcomes</b>	
<b>FYBA</b>	
<b>Compulsory English</b>	CO-1. Students are familiarized students with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English
	Co-2. Students are exposed them to native cultural experiences and situations in order to develop humane values and social awareness
	Co-3. Development of overall linguistic competence and communicative skills of the students
<b>Optional English (General Paper-I)</b>	CO-1. Students are exposed to the basics of literature and language
	CO-2. Students are familiarized with different types of literature in English, the literary devices and terms so that they understand the literary merit, beauty and creative use of language
	CO-3. Students are exposed the basic units of language so that they become aware of the technical aspects and their practical usage
	CO-4. Students are prepared for a detailed study and understanding of literature and language
	CO-5. Development of an integrated view about language and literature.
<b>SYBA</b>	
<b>Compulsory English</b>	CO-1. Development of language competency among the students for self-learning
	CO-2. Students are familiarized the excellent pieces of prose and poetry in English so that they realized the beauty and communicative power of English

	CO-3. Development of students' interest in reading literary pieces
	CO-4. Students are exposed to native cultural experiences and situations in order to develop humane values and social awareness
	CO-5. Development of overall linguistic competence and communicative skills
<b>General English (G-2)</b>	CO-1. Students are exposed to the basics of short story, one of the literary forms
	CO-2. Students are familiarized the different types of short stories in English
	CO-3. Inculcated the understanding of literary merit, beauty and creative use of language
	CO-4. Students are familiarized the some advanced units of language so that they became aware of the technical aspects and their practical usage
	CO-5. Students are prepared for the detailed study and understanding of literature and language
	CO-6. Development of an integrated view about language and literature
<b>Special Paper-I (S-1)</b>	CO-1. Students are familiarized the terminology in Drama Criticism
	CO-2. Students are encouraged to study of a few sample masterpieces of English Drama from different parts of the world
	CO-3. Development of interest among the students to appreciate and analyse drama independently
	CO-4. Enhanced students awareness in the aesthetics of Drama and empowered evaluate drama independently
<b>Special Paper-II (S-2)</b>	CO-1. Students are familiarized the terminology in poetry criticism
	CO-2. Students are encouraged to study of a to study of a few sample masterpieces of English poetry
	CO-3. Enhanced students awareness in the aesthetics of poetry and to empowered to read, appreciate and critically evaluate the poetry independently
<b>TYBA</b>	
<b>Compulsory English</b>	CO-1. Students are exposed to the best uses of language in literature.
	CO-2. Students are familiarized the communicative power of English
	CO-3. Competent users of English in real life situations
	CO-4. Students are exposed to varied cultural experiences through literature
	CO-5. Improvement of students communicative and soft skills
<b>General English (G-3)</b>	CO-1. Students are exposed to some of the best samples of Indian English Poetry
	CO-2. To make the students see how Indian English poetry expresses the ethos and culture of India
	CO-3. Students are understand the creative uses of language in Indian English Poetry
	CO-4. Students are familiarized to some advanced areas of language study
	CO-5. To prepare students to go for detailed study and understanding of literature and language
	CO-6. Development of an integrated view about language and literature
<b>Special Paper III (S-3)</b>	CO-1. Students are familiarized to the basics of novel as a literary form
	CO-2. Students are exposed to the historical development and nature of novel
	CO-3. To make students aware of different types and aspects of novel
	CO-4. To develop literary sensibility and sense of cultural diversity in students
	CO-5. Students are exposed to some of the best examples of novel
<b>Special Paper IV(S-4)</b>	CO-1. Students are familiarized to the basics of literary criticism

	CO-2. To make them aware of the nature and historical development of criticism
	CO-3. ) To make them familiar with the significant critical approaches and terms
	CO-4. To encourage students to interpret literary works in the light of the critical approaches
	CO-5. Development of critical analysis aptitude
<b>FYBCom</b>	
<b>Compulsory English</b>	CO-1.Students are familiarized with good pieces of prose and poetry so that they realize the beauty and communicative power of English
	CO-2. Students are exposed to the native cultural experiences and situations so that they understand the importance and utility of English language
	CO-3. To develop overall linguistic competence and communicative skills among the students
	CO-4. To develop oral and written communicative skills among the students so that their employability enhances and English becomes the medium of their livelihood and personality
<b>SYBSc</b>	
<b>English</b>	CO-1.To offer students good pieces of prose and poetry so that they realize the beauty and communicative power of English
	CO-2. To expose them to native cultural experiences and situations so that they understand the importance and utility of English language
	CO-3. To develop overall linguistic competence and communicative skills among the students
	CO-4. To develop oral and written communicative skills among the students so that their employability enhances and English becomes the medium of their livelihood and personality

## Department of Marathi

PROGRAMME: B.A. MARATHI	
अभ्यासक्रमाची गृहितके	राष्ट्रीय शैक्षणिक धोरणांची उद्दिष्टे प्रत्यक्षात आणताना, विद्यार्थीकेंद्री, आंतरविद्याशाखीय, रोजगाराभिमुख, कौशल्याधिष्ठित असे भाषा व साहित्याचे अभ्यासक्रम अनुसरणे, निर्माण करणे आवश्यक आहे. तसेच जीवन कौशल्य विकासासाठी भाषा, साहित्य, कला ही माध्यमे अधिक परिणामकारकतेने समजावून घेणे आवश्यक झाले आहे. साहित्यिकक्षमता, भाषिकक्षमता वाढीसाठी, जीवनाच्या आकलनासाठी आणि प्रगल्भतेसाठी विद्यार्थी सिद्ध करणे, ही आजची गरज बनली आहे.
अभ्यासक्रमाची उद्दिष्टे	<ol style="list-style-type: none"> <li>१. मराठी भाषा, मराठी साहित्य आणि मराठी संस्कृती यांचे अध्ययन करणे.</li> <li>२. साहित्यविषयक आकलन, आस्वाद आणि मूल्यमापनक्षमता विकसित करणे.</li> <li>३. साहित्याभ्यासातून जीवनविषयक समज विकसित करणे.</li> <li>४. मराठी भाषेची उपयोजनात्मक कौशल्य विकसित करणे.</li> </ol>
<b>Course Outcomes</b>	
<b>FYBA</b>	
<b>General Marathi-(G-1)</b> (मराठी साहित्य: कथा आणि भाषिक कौशल्यविकास)	<ol style="list-style-type: none"> <li>१. कथा या साहित्यप्रकाराची ओळख करून देणे.</li> <li>२. कथा या साहित्यप्रकाराचे स्वरूप, घटक आणि प्रकार यांची ओळख करून देणे.</li> <li>३. विविध साहित्यप्रवाहामधील कथा या साहित्यप्रकारातील निवडक कथांचे अध्ययन करणे.</li> <li>४. भाषिक कौशल्यविकास करणे.</li> </ol>
<b>SYBA</b>	
<b>General Marathi-(G-2)</b> (आधुनिक मराठी साहित्य आणि उपयोजित मराठी)	<ol style="list-style-type: none"> <li>१. शुद्धलेखनाची ओळख करून देणे</li> <li>२. पारिभाषिक संज्ञांची ओळख करून देणे.</li> <li>३. चरित्र-आत्मचरित्र या साहित्यप्रकारांच्या तात्विक घटकांचे ज्ञान करून देणे.</li> <li>४. आधुनिक मराठी साहित्यातील निवडक चरित्र-आत्मचरित्रात्मक वेच्यांचे आकलन, आस्वाद आणि मूल्यमापन करण्याची क्षमता विद्यार्थ्यांमध्ये निर्माण करणे.</li> </ol>
<b>Special Paper-I (S-1)</b> (मराठी साहित्यातील विविध साहित्यप्रकार)	<ol style="list-style-type: none"> <li>१. मराठी साहित्यप्रकारांच्या तात्विक घटकांचे ज्ञान देणे.</li> <li>२. वेगवेगळ्या कालखंडातील मराठीतील अभिजात साहित्यकृतींचा संस्कार घडविणे. साहित्याविषयीची अभिरुची निर्माण करणे.</li> <li>३. साहित्यकृतीला मुक्त प्रतिसाद देण्याची क्षमता विकसित करणे.</li> <li>४. साहित्यकृतीचे आकलन, आस्वाद आणि मूल्यमापन करण्याची दृष्टी निर्माण करणे.</li> <li>५. साहित्याचा सूक्ष्म पातळीवर अभ्यास करण्याची क्षमता विकसित करणे.</li> <li>६. पदव्युत्तर अभ्यास करण्याची पूर्वतयारी करणे.</li> </ol>
<b>Special Paper-II (S-2)</b> (अर्वाचीन मराठी वाङ्मयाचा इतिहास इ.स. १८१८ ते १९६०)	<ol style="list-style-type: none"> <li>१. विशेषस्तरावर अभ्यासाचा प्रारंभ होत असताना, मराठी साहित्याच्या ऐतिहासिक परंपरेचे स्थूल ज्ञान करून देणे.</li> <li>२. विशिष्ट कालखंडाच्या पार्श्वभूमीवर साहित्यामागील प्रेरणा, प्रवृत्तींचे ज्ञान करून देणे.</li> <li>३. साहित्यप्रकारांच्या विकसनशील परंपरेचे स्थूल ज्ञान करून देणे.</li> <li>४. पदव्युत्तर अभ्यास करण्याची पूर्वतयारी करणे.</li> </ol>
<b>TYBA</b>	
<b>General Marathi (G-3)</b> (आधुनिक मराठी साहित्य आणि व्यावहारिक व उपयोजित मराठी)	<ol style="list-style-type: none"> <li>१. आधुनिक मराठी साहित्यातील विविध साहित्यप्रकारांचा परिचय वाढविणे. त्यांचे आकलन करून घेणे. साहित्याबद्दलची अभिरुची विकसित करून कलाकृतींचा आस्वाद घेण्याची क्षमता वाढविणे.</li> <li>२. नेमलेल्या कलाकृतींच्या संदर्भात साहित्यपरंपरेचा स्थूल परिचय करून देणे.</li> <li>३. भाषेचे यथोचित आकलन करण्याची व वापर करण्याची यथायोग्य क्षमता विकसित करणे.</li> </ol>

	४. 'निबंध' व 'प्रवासवर्णन' या साहित्यप्रकाराचे तात्विक विवेचन करणे.
	५. विद्यार्थ्यांची वाचन व लेखन क्षमता विकसित करून त्यांना ग्रंथपरीक्षाची आवड निर्माण व्हावी, यासाठी प्रवृत्त करणे.
<b>Special Paper III (S-3)</b> साहित्यविचार	१. साहित्याचे स्वरूप समजावून घेणे.
	२. साहित्याची प्रयोजने समजावून घेणे.
	३. साहित्याची निर्मितीप्रक्रिया समजावून घेणे.
	४. साहित्याची भाषा समजावून घेणे.
	५. साहित्याची आस्वादप्रक्रिया समजावून घेणे.
	६. साहित्यिक अभिरुची समजावून घेणे.
	७. साहित्य आणि समाज यातील परस्परसंबंध समजावून घेणे.
	८. साहित्य प्रकारांची संकल्पना समजावून घेणे.
	९. वाङ्मयीन मूल्ये समजावून घेणे.
<b>Special Paper IV(S-4)</b>	१. भाषेचे स्वरूप व कार्य, भाषेच्या अभ्यासाचे महत्व, भाषेच्या अभ्यासाची प्रमुख अंगे जाणून घेणे.
	२. भाषा म्हणजे काय व तिचे मानवी जीवनातील कार्यव महत्व जाणून घेणे.
	३. स्वनिर्मितीची प्रक्रिया समजावून घेणे.
	४. वाङ्मयीनाची रचना व कार्य समजावून घेणे.
	५. स्वनिविज्ञान, स्वनिम संकल्पना आणि मराठीची स्वनिमव्यवस्था जाणून घेणे.
	६. मराठीची रुपिमव्यवस्था समजावून घेणे.
	७. वाक्यविन्यास व अर्थविन्यास या संकल्पनांचा स्कूल परिचय करून घेणे.
	८. ऐतिहासिक भाषाभ्यासपद्धतीचे स्वरूप व महत्व लक्षात घेणे.
	९. भाषाकुलाची संकल्पना जाणून घेऊन मराठी भाषेच्या उत्पत्तीचा अभ्यास करणे.
	१०. मराठी भाषेच्या वाटचालीचा ऐतिहासिक आढावा घेणे.
<b>FYBCom</b>	
<b>Compulsory Marathi</b>	१. विविध क्षेत्रातील भाषा व्यवहाराची स्वरूप व गरज समजावून देणे.
	२. या व्यवहार क्षेत्रातील मराठी भाषेचे स्थान स्पष्ट करणे व त्यातील मराठीच्या प्रत्यक्ष वापराचा अभ्यास करणे.
	३. विविध क्षेत्रीय मराठी भाषेच्या वापराची कौशल्ये विकसित करणे.
	४. विविध लेखनप्रकारांचा अभ्यास व प्रत्यक्ष लेखनाची कौशल्ये वापरण्यास सक्षम करणे.
	५. विविध क्षेत्रातील कर्तृत्ववान व्यक्तींच्या कार्याची व विचारांची ओळख करून देणे.
	६. विद्यार्थ्यांमध्ये नैतिक, व्यवसायिक व वैचारिक मूल्यांची जोपासना करणे.

**हिंदी विभाग**  
**पाठ्यक्रम उद्दिष्ट तथा उपलब्धियाँ**

अ.क्र.	पाठ्यक्रम तथा विषय	पाठ्यक्रम -उद्दिष्ट	पाठ्यक्रम -उपलब्धियाँ
1	FYB। Hindi Gen	<ol style="list-style-type: none"> <li>छात्रों को हिंदी गद्य तथा पद्य का परिचय कराते हुए प्रतिनिधि हिंदी रचनाकारों का परिचय देना</li> <li>हिंदी साहित्य के प्रति छात्रों की रुचि बढ़ाते हुए विभिन्न विधाओं से परिचित कराना</li> <li>छात्रों में राष्ट्रप्रेम एवं सामाजिक प्रतिबद्धता की भावना विकसित करना।</li> <li>छात्रों में नैतिक, राष्ट्रीय, सामाजिक तथा वैज्ञानिक मूल्यों के प्रति आस्था जगाना।</li> <li>पारिभाषिक शब्दावली, पत्रलेखन, अनुवाद, सारांश लेखन, निबंध लेखन तथा वाक्य शुद्धीकरण आदि प्रयोजनीय पक्षों से अवगत कराना।</li> </ol>	<ol style="list-style-type: none"> <li>छात्र हिंदी गद्य, पद्य, प्रतिनिधि रचनाकारों से परिचित होते हुए उनमें हिंदी साहित्य के प्रति रुचि बढ़ जाती है। वे साहित्य की विधाओं से परिचित होते हैं।</li> <li>छात्रों में राष्ट्रप्रेम तथा सामाजिक प्रतिबद्धता एवं भावना विकसित होती हैं। वे नैतिक, राष्ट्रीय, सामाजिक एवं वैज्ञानिक मूल्यों के प्रति सचेत होते हैं।</li> <li>छात्र हिंदी साहित्य के प्रयोजनीय पक्ष से अवगत होते हुए पत्रलेखन, सारांश लेखन, निबंध लेखन आदि पक्षों से परिचित होते हैं। साथ ही पारिभाषिक शब्दावली, वाक्य शुद्धीकरण एवं अनुवाद आदि प्रयोजनीय हिंदी के रूपों से परिचित हो जाते हैं।</li> </ol>
2	SYB। Hindi S-2	<ol style="list-style-type: none"> <li>हिंदी उपन्यास एवं नाटक के विविध मानदंडों के आधार पर छात्रों में समीक्षण की क्षमता निर्माण करना।</li> <li>छात्रों की हिंदी उपन्यास एवं नाटक के आस्वादन की क्षमता विकसित करना।</li> <li>मध्ययुगीन संत एवं भक्तों के काव्य से छात्रों को परिचित कराना।</li> <li>प्रतिनिधि कवियों के योगदान के विविध आयामों से छात्रों को परिचित कराना।</li> <li>साहित्य कृतियों के माध्यम से साहित्य के शिल्प एवं सौंदर्य से परिचित कराना।</li> </ol>	<ol style="list-style-type: none"> <li>छात्र हिंदी उपन्यास एवं नाटक विधा के मानदंडों के आधार पर समीक्षा करते हैं। साथ ही हिंदी उपन्यास तथा नाटक के अध्ययन में रुचि निर्माण हुई।</li> <li>प्रस्तुत पाठ्यक्रम के कारण छात्र मध्ययुगीन संत तथा उनके काव्य संसार से परिचित हो जाते हैं।</li> <li>मध्ययुगीन प्रतिनिधि कवियों के योगदान तथा उनकी वैचारिक पृष्ठभूमि से छात्र परिचित हुए।</li> <li>विवेच्य साहित्य कृतियों के माध्यम से छात्र साहित्य के शिल्प तथा सौंदर्य से परिचित हुए।</li> </ol>
3	TYB। Hindi S-3	<ol style="list-style-type: none"> <li>हिंदी साहित्य के इतिहास की लेखन परंपरा, कालखंडों के नामकरण एवं पृष्ठभूमि का परिचय देना।</li> <li>हिंदी साहित्य की प्रतिनिधि रचनाओं और रचनाकारों का महत्व, प्रदेय, पूर्ववर्ती तथा परवर्ती प्रभाव विशद करना।</li> <li>हिंदी साहित्य के विकासक्रम तथा साहित्य के परिवर्तनों के कारणों का परिचय देना।</li> <li>हिंदी साहित्य इतिहास के माध्यम से साहित्य और जीवन-संबंध विषद करना।</li> <li>आधुनिक युग की सामाजिक, राजनीतिक, धार्मिक, साहित्यिक तथा आर्थिक परिस्थितियों के बदलाव के परिपेक्ष्य में हिंदी साहित्य में आए हुए बदलाव से छात्रों को अवगत कराना।</li> </ol>	<ol style="list-style-type: none"> <li>छात्र हिंदी साहित्य के इतिहास लेखन की परंपरा, कालविभाजन, नामकरण तथा पृष्ठभूमि से परिचित होते हैं।</li> <li>छात्र हिंदी साहित्य की प्रतिनिधि रचनाओं एवं रचनाकारों के योगदान एवं पूर्ववर्ती प्रभाव को समझते हैं।</li> <li>हिंदी साहित्य के विकासक्रम एवं परिवर्तनों के कारणों से छात्र अवगत होते हैं।</li> <li>हिंदी साहित्य के इतिहास के अध्ययन से छात्र साहित्य एवं युगजीवन के संदर्भों को जानने लगते हैं।</li> <li>छात्र आधुनिक युगीन परिस्थितियाँ एवं परिवर्तन के कारण आए बदलाव से परिचित होते हैं।</li> </ol>

4.	TYBI Hindi S-4	<ol style="list-style-type: none"> <li>छात्रों को काव्य, साहित्य की परिभाषाओं द्वारा काव्य के स्वरूप के साथ काव्य हेतु तथा काव्य के प्रयोजनों का ज्ञान कराना।</li> <li>छात्रों को काव्य के तत्त्व, काव्य के भेद तथा शब्दशक्ति का ज्ञान कराना।</li> <li>छात्रों को अलंकार, छंदों के स्वरूप के साथ उनका सोदाहरण परिचय कराना।</li> <li>छात्रों को गद्य-भेदों के साथ नाटक, एकांकी और निबंध के स्वरूप एवं तत्वों की जानकारी देना।</li> <li>छात्रों को रस का स्वरूप, रस के अंगों एवं भेदों का परिचय देना।</li> <li>छात्रों को आलोचना का स्वरूप, आलोचना की उपयोगिता और आलोचक के गुणों से परिचित कराना।</li> </ol>	<ol style="list-style-type: none"> <li>छात्र काव्य तथा साहित्य की परिभाषा, स्वरूप, काव्य हेतु, काव्य प्रयोजन आदि से परिचित होते हैं।</li> <li>छात्र काव्य के तत्त्व, काव्य के भेद तथा शब्द शक्तियों की बारीकियों से अवगत होते हैं।</li> <li>छात्र अलंकार तथा छंद की परिभाषा, स्वरूप, तथा उसके काव्य में स्थान को जान जाते हैं।</li> <li>छात्र गद्य भेद नाटक, एकांकी, निबंध, उपन्यास आदि के तत्वों तथा विकास प्रक्रिया से अवगत होते हैं</li> <li>साथ ही रस के स्वरूप, अंग तथा काव्य में रस की अवश्यता को समझने लगते हैं।</li> <li>छात्र आलोचना के परिभाषा, स्वरूप, उपयोगिता तथा आलोचक के गुणों परिचित होते हैं।</li> </ol>
5	TYBI Gen-3	<ol style="list-style-type: none"> <li>छात्रों को हिंदी आत्मकथा विधा हिंदी की दीर्घ कविता काव्य नाटक के विकास तथा उनके स्वरूप का परिचय देना।</li> <li>छात्रों को पारिभाषिक शब्द तथा संक्षिप्त यू के माध्यम से कार्यालय में प्रयुक्त की जाने वाली कार्यालय हिंदी से परिचित कराना।</li> <li>छात्रों को सरकारी पत्र लेखन की पद्धति से अवगत कराना।</li> <li>छात्रों को पत्रकारिता के विभिन्न पहलुओं से परिचित कराना।</li> <li>छात्रों में अंग्रेजी से हिंदी में अनुवाद करने की कला को विकसित करना।</li> </ol>	<p>छात्रों को हिंदी आत्मकथा विधा तथा हिंदी की दीर्घ कविता/ काव्य नाटक के विकास तथा उनके स्वरूप का परिचय होता है। छात्रों को पारिभाषिक शब्द तथा संस्कृति ओम के माध्यम से सरकारी ट्रेनों में प्रयुक्त की जाने वाली कार्यालयिन हिंदी से परिचित होता है। छात्र कार्यक्रम संयोजन कौशल्य से परिचित होता है। छात्रों में अंग्रेजी से हिंदी में अनुवाद कला विकसित होने लगती है</p>
6	SYBI Gen-2	<ol style="list-style-type: none"> <li>छात्रों को हिंदी के प्रतिनिधि कहानीकार एवं कवियों से परिचित कराना।</li> <li>छात्रों को हिंदी कहानी एवं नई कविता की विशेषताओं के परिचित कराना।</li> <li>हिंदी के कार्यालय एवं व्यापारिक पत्रों के स्वरूप का ज्ञान देना।</li> <li>छात्रों को पारिभाषिक शब्द विज्ञापन वेट वार्ता साक्षात्कार रिपोर्ट लेखन आदि हिंदी भाषा के व्यवहारिक क्षेत्रों से परिचित कराना।</li> <li>छात्रों को हिंदी शब्द युग्म का ज्ञान कराना।</li> </ol>	<p>छात्र हिंदी के प्रतिनिधि कहानीकार और कवियों से परिचित होने लगता है। हिंदी की कहानी और नई कविता के भाव को समझने लगता है। छात्रों को हिंदी के कार्यालय एवं व्यापारिक पत्रों का ज्ञान हो जाता है। छात्रों को पारिभाषिक शब्द विज्ञापन वार्ता साक्षात्कार आदि से परिचय होने लगता है। छात्रों को शब्द युग्म का ज्ञान होता है।</p>
7	SYBI Sp-1	<ol style="list-style-type: none"> <li>छात्रों को भाषा की परिभाषा विशेषताएं तथा भाषा के विविध रूपों की जानकारी देना।</li> <li>छात्रों को हिंदी की बोलियों तथा भाषा विकास के प्रमुख वादों से परिचित कराना।</li> <li>छात्रों को राजभाषा हिंदी के संवैधानिक स्वरूप तथा राष्ट्रभाषा का प्रचार करने वाली संस्थाओं से परिचित कराना।</li> <li>छात्रों में भाषा के वैज्ञानिक अध्ययन की दृष्टि निर्माण करना।</li> </ol>	<p>छात्रों को भाषा की परिभाषा तथा भाषा के विविध रूपों की जानकारी होती है। हिंदी की बोलियां तथा भाषा विकास के प्रमुख वादों का परिचय हो जाता है। राजभाषा हिंदी के संवैधानिक स्वरूप तथा राष्ट्रभाषा का प्रचार करने वाली संस्थाओं से परिचित होता है। भारतीय वैज्ञानिक अध्ययन की दृष्टि निर्माण होती है। भाषा विज्ञान के अंगों तथा भाषा विज्ञान की शाखाओं का परिचय होने लगता</p>

		<p>5. भाषा विज्ञान के अंगों तथा भाषा विज्ञान की शाखा का परिचय कराना।</p> <p>6. भाषा विज्ञान का अन्य विज्ञानों से संबंध विषद करना।</p> <p>7. लिपि के स्वरूप एवं उत्पत्ति का इतिहास देवनागरी लिपि की वैज्ञानिकता की जानकारी देना।</p>	<p>है। भाषा विज्ञान का अन्य विज्ञानों से संबंध समझ में आता है। लिपि के स्वरूप एवं उत्पत्ति का इतिहास देवनागरी लिपि की वैज्ञानिकता समझती है।</p>
8	FYBCom	<p>1. छात्रों को हिंदी के गद्य एवं पद्य की प्रतिनिधि रचना करो का परिचय देना।</p> <p>2. हिंदी साहित्य के प्रति छात्रों की रुचि बढ़ाना तथा साहित्य की विविध विधाओं से परिचय कराना।</p> <p>3. विधाओं के माध्यम से छात्रों का भावात्मक विकास कराना।</p> <p>4. छात्रों में राष्ट्र के प्रति प्रेम एवं सामाजिक प्रतिबद्धता विकसित करना।</p> <p>5. राष्ट्रीय एकता, सामाजिक, उत्तरदायित्व, वैज्ञानिकता के प्रति आदि मूल्यों के प्रति छात्रों का ध्यान आकर्षित करा।</p> <p>6. सफल व्यापारी एवं उद्योजक की गुणवत्ता से अवगत कराना।</p> <p>7. नैतिक मूल्य, राष्ट्रीय मूल्य सामाजिक मूल्यों के प्रति आस्था निर्माण करना।</p> <p>8. परिभाषिक शब्दावली के माध्यम से वाणिज्य तथा बैंकों में प्रयुक्त हिंदी शब्दों से परिचित कराना।</p> <p>9. पत्र लेखन, विज्ञापन लेखन आदि के माध्यम से भाषा के रचनात्मक पहलू से परिचित कराना।</p> <p>10. संक्षेपन आदि के माध्यम से विचार क्षमता को बढ़ावा देना।</p>	<p>छात्रों को हिंदी के गद्य एवं पद्य के प्रतिनिधि रचनाकारों का परिचय होता है। हिंदी साहित्य के प्रति छात्रों रुचि बढ़ती है। राष्ट्रीय खेल सामाजिक, उत्तरदायित्व, वैज्ञानिकता आदि मूल्यों के प्रति जागृति होती है। सफल व्यापारी एवं उद्योजक की गुणवत्ता बढ़ती है। परिभाषिक शब्द के माध्यम से छात्रों को वाणिज्य तथा बैंकों में प्रयुक्त हिंदी शब्द से परिचित होता है। विज्ञापन लेखन आदि के माध्यम से छात्रों को भाषा के रचनात्मक पहलू है। संक्षेपन आदि के माध्यम से छात्रों की विचार क्षमता और कल्पना शक्ति बढ़ती है।</p>



# Department of Geography

## PROGRAMME: B.A. GEOGRAPHY

<b>Programme Outcomes</b>	PO-1. The Geographical maturity of students in their current and future courses shall develop.
	PO-2. The student develops theoretical, applied and computational skills
	PO-3. Acquaint the students with the nature of man-environment relationship and human capability to adopt and modify the environment under its varied conditions from primitive life style to the living.
	PO-4. To identify and understand environment the population in terms of their quality and spatial distribution pattern and to comprehend the contemporary issues facing the global community.
<b>Program Specific Outcomes</b>	PSO-1. To acquaint the students with geography of our Nation
	PSO-2. To make the students aware of the magnitude of problems and prospects at National level.
	PSO-3. Help the students to understand the inter relationship between the subject and the society.
	PSO-4. Help the students to understand the recent trends in regional studies
	PSO-5. Agriculture activities and its relation with Geography
	PSO-6. To enable students to apply previously knowledge in problems and prospects in agriculture.
<b>Course Outcomes FYBA</b>	
<b>Physical and Human Geography (G-1)</b>	CO-1. To introduce the students to the basic concepts in physical geography.
	CO-2. To introduce latest concept in physical geography.
	CO-3. To acquaint the students with the utility and application of physical geography in different regions and environment.
	CO-4 To make the students aware about Earth system (Lithosphere, Atmosphere, Biosphere and Hydrosphere)
<b>SYBA</b>	
<b>Geography of Disaster Management (G-2)</b>	CO-1. To introduce students the concept of disaster and its relation with geography.
	CO-2. To acquaint the students with the utility and application of hazards in different areas and its management.
	CO-3. To make the students aware of the need of protection and disaster management.
<b>Tourism Geography (S-1)</b>	CO-1. To acquaint the students basic concepts of geography and tourism.
	CO-2. To aware the students with the utility and application of tourism.
	CO-3. To help the students and society to understand the interrelationship between tourism and employment generation opportunities.
	CO-4. To understand the impact of tourism on physical and human environments.
<b>Fundamentals of Geographical Analysis -I (S-2)</b>	CO-1. To enable the students to use various projection and cartographic techniques

	CO-2.To acquaint the students with basic of statistical data.
	CO-3.To acquaint the students with the principles of surveying, its importance and utility in the geographical study.
<b>TYBA</b>	
<b>Regional Geography of India (G-3)</b>	CO-1. To understand the physical characteristics of India.
	CO-2.To understand the cultural characteristics of India.
	CO-3.To sensitize the students with development issues and policies and programmes designed for regional development.
<b>Population and Settlement Geography (S-3)</b>	CO-1. To provide and understanding of spatial and structural dimensions of population.
	CO-2. To familiarizing the students with global and regional level problems.
	CO-3. To acquaint the students with the spatial, political and structural characteristics of human settlement under varied environmental conditions.
<b>Techniques of Spatial Analysis (S-4)</b>	CO-1. To introduce the students with SOI toposheets and the to acquire the knowledge of toposheet reading/ interpretation.
	CO-2.To familiarize the students with the weather instruments and their applications in geographical phenomena.
	CO-3.To acquaint the students with IMD weather maps and to gain the knowledge of weather map reading/ interpretation.
	CO-4.To train the students in elementary statistics as an essential part of geography.
	CO-5.To awareness about GIS among the students.

## Department of Political Science

Bachelor of Art (BA)	
Programme Outcomes	<b>PO1. Critical Thinking:</b> Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
	<b>PO2. Effective Communication:</b> Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
	<b>PO3. Effective Citizenship:</b> Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
	<b>PO4. Ethics:</b> Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
	<b>PO5. Self-directed and Life-long Learning:</b> Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes
Course Outcomes F.Y.B.A.	
FYBA G-I	<b>CO1.</b> It focuses in detail on the political processes and the actual functioning of the political system.
	<b>CO2.</b> It simultaneously studies in detail the political structure both Constitutional and Administrative.
	<b>CO3.</b> It emphasizes on local influences that derive from social stratification of castes and jatis, from language, religion, ethic and economic determinants and critically assesses its impact on the political processes.
	<b>CO4.</b> The major contradictions of the Indian Political Process are to be critically analyzed along with an assessment of its relative success and failure in a comparative perspective with other developing countries and in particular those belonging to the South Asian region.
S.Y.B.A.	
SYBA G-II	<b>CO1.</b> It introduces the major constitutions of the World by adopting a comparative approach.
	<b>CO2.</b> The constitutional and legal provisions, the ideological basis, the institutional arrangement and their social and economic background are to be explained, analyzed and evaluated critically.

	<b>CO3.</b> The historical backgrounds to individual constitutions are to be emphasized to gain an understanding of its evolution.
	<b>CO4.</b> The comparative perspective enables the student to understand the differences and similarities between the various constitutional arrangements.
	<b>CO5.</b> Furthermore the political institutions are to be studied in light of the political process to gain an understanding of the dynamics of actual politics and policy making.
<b>T.Y.B.A.</b>	
<b>TYBA G-III</b>	<b>CO1.</b> To introduce the students to the structure of Local Self Government of Maharashtra.
	<b>CO2.</b> To make students aware of the various Local Self Institutions, their functions, compositions and importance.
	<b>CO3.</b> To identity the role of Local Government and Local Leadership in development.

## Department of Economics

Bachelor of Art (BA)		
Programme Outcomes		<b>PO1.Critical Thinking:</b> Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
		<b>PO2. Effective Communication:</b> Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
		<b>PO3.Social Interaction:</b> Elicit views of others, mediate disagreements and help reach conclusions in group settings.
		<b>PO4.Effective Citizenship:</b> Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
		<b>PO5.Ethics:</b> Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
		<b>PO6.Environment and Sustainability:</b> Understand the issues of environmental contexts and sustainable development.
		<b>PO7.Self-directed and Life-long Learning:</b> Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes
Course Outcomes		
FYBA G-I	G1- Indian Economy Problems & Prospects	To make the students known about the various sectors of the economy in detail. To highlight the potential of the Indian economy to study the facts and figures about development.
SYBA G-II	G2-Modern Banking	To create the awareness of the student of modern banking system. Understanding of the opportunities of banking their interaction with rest of the economy essential to realize how monetary force operates through multitude of channels.
TYBA G-III	G3-Economic Development & Planning	This paper is devoted to the theories of economics development, approaches to economic development, social and institutional aspects of development, constraints on development process, macroeconomic policies, role of foreign capital and economic planning in developing countries.

# Department of History

## Course Outcomes

### Programs offered

Sr • N o.	Program	Program Objectives	Program Specific Objectives
1	History	<p><b>History</b></p> <ol style="list-style-type: none"> <li>1. To enable the students to develop Knowledge, Understanding, Critical thinking, Practical skills, Interests and Attitudes relating to historical matters.</li> <li>2. History aims at helping students to understand the present existing social, political, religious and economic conditions of the people, the development of the past &amp; the religion, customs institutions, administration and soon.</li> <li>3. History thus helps students to understand the present day problems at regional, national and international level accurately and objectively. This understanding enables students to lead useful and efficient lives.</li> <li>4. To create interest as well as affection for reading historical figures, characters, events and facts which are found necessary for solving the present problems effectively.</li> <li>5. The student would be able to acquire knowledge of various terms, concepts, events, ideals, problems personalities and principles related to the study of history.</li> </ol>	<p>1. To Introduce innovative study techniques in the study of History of Maratha to make it value based, conceptual and thought provocative. To introduce International elements in the study of Marathas to facilitate comparative analysis of this history. To highlight the importance of past in exploration of present context. To understand the Socio –economic, cultural and political background of 17th century Maharashtra. To increase the spirit of healthy Nationalism &amp; Secularism among the student. To encourage students to for competitive examinations. To promote interest in the discipline of History. Suggesting the Importance of References.</p> <p>2. The course is designed to help the student to know History of freedom movement of India, aims, objectives problems and progress of Independent India. It aims at enabling the student to understand the processes of rise of modern India. The Course attempts to acquaint student with fundamental aspects of Modern Indian History. To explain the basic concepts/ concerns/ frame work of Indian History</p> <p>3. To Survey the sources of History of Ancient India. The Course intends to provide an Understanding of the social, economic, religious and institutional bases of Ancient India. The course will study such as agriculture, Industry, trade. To study the development of the concept of Nation- State background of political history. To study ancient Indian Art &amp; Architecture</p> <p>4. The purpose of the course is to enable the students to study the history of modern Maharashtra. To highlight the ideas, institutions, forces and movements that contributes to the modern Maharashtra. To acquaint the students with various interpretative perspectives. To introduce the student to the regional history within a broad national framework.</p> <p>5. To help the student to know Modern World. To acquaint the student with the Socio-economic &amp; Political developments in other countries. And understand the contemporary world in the light of its background History.</p>

		<p>2. To orient the students with political history of Modern World.</p> <p>3. To acquaint Students about the main developments in the Contemporary world (To understand important development in 20th century World.)</p> <p>4. Impart knowledge about world concepts.</p> <p>5. To enable students to understand the economic transition in World during the 20th Century.</p> <p>6. Become aware of the principles, forces, processes and problems of the recent times.</p> <p>7. To acquaint the students with growth of various political movements that shaped the modern world.</p> <p>8. To highlight the rise and growth of nationalism as a movement in different parts of the world.</p> <p>6. 1. To orient students about how history is studied, written and understood.</p> <p>2. To explain methods and tools of data collection</p> <p>3. To understand the meaning of Evolution of Historiography.</p> <p>4. To study the Various Views of Historiography.</p> <p>5. To study the approaches to Historiography.</p> <p>6. To study the types of Indian Historiography.</p> <p>7. To describe importance of inter-disciplinary research.</p> <p>8. To introduce students to the basics of research.</p> <p>9. To acquaint the student with the recent research in History.</p> <p>10. Learn how to use sources in their presentation.</p> <p>7. To acquaint Students about the rise and development of the USA as a world power.</p> <p>2. To acquaint Students about the main developments in the Contemporary World</p> <p>3. To comprehend the socio economic reforms in 1914 –1992.</p> <p>4. To acquaint the students with the principles of foreign policy.</p> <p>5. To orient the students with political history of Europe.</p>
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### Courses offered

Sr. No.	Course	Course Outcomes
1	<p><b>B.A History</b></p> <p><b>History General Paper No. 1</b></p> <p><b>Chh. Shivaji and His Times (1630 – 1707)</b></p>	<p>Introduce innovative study techniques in the study of History of Maratha to make it value based, conceptual and thought provocative. Introduce International Elements in the study of Marathas to facilitate comparative analysis of this history. Highlight the importance of past in exploration of present context. understand the Socio –economic, cultural and</p>

		<p>political background of 17th century Maharashtra.</p> <p>Increase the spirit of healthy Nationalism &amp; Secularism among the student.</p> <p>Encourage student s to for competitive examinations. promote interest in the Discipline of History. Suggesting the Importance of References.</p>
2.	<p><b>S.Y.B.A. (History)</b>  <b>Modern- India (1857-1950) General Paper 2</b></p>	<p>The course is designed to help the student to know- History of freedom movement of India, aims, objectives problems and progress of Independent India. It aims at enabling the student understand the processes of rise of modern India. The Course attempts acquaint student with fundamental aspects of Modern Indian History. explain the basic concepts/ concerns/ frame work of Indian History</p>
3.	<p><b>S.Y.B.A. History</b>  <b>Special Paper - I,</b>  <b>Ancient India (3000 B.C. to 1206 AD)</b></p>	<p>Survey the sources of History of Ancient India. The Course intends to provide an Understanding of the social, economic, religious and institutional bases of Ancient India. The course will study such as agriculture, Industry, trade. Study the development of the concept of Nation- State background of political history. Study ancient Indian Art&amp; Architecture</p>
4.	<p><b>S.Y.B.A.</b>  <b>(History, special Paper -II) From 2014-2015</b>  <b>History of Modern Maharashtra (1818 to 1960)</b></p>	<p>The purpose of the course is to enable the students to study the history of modern Maharashtra .Highlight the ideas, institutions, forces and movements that contributes to the modern Maharashtra. Acquaint the students with various interpretative perspectives. Introduce the student to the regional history within a broad national framework.</p>
5	<p><b><u>T.Y.B.A.</u></b>  <b>G-3 = HISTORY OF THE WORLD IN 20TH CENTURY (1914-1992)</b></p>	<ol style="list-style-type: none"> <li>1. Help the student to know Modern World. Acquaint the student with the Socio-economic &amp; Political developments in other countries. And understand the contemporary world in the light of its backgroundHistory.</li> <li>2. Orient the students with political history of ModernWorld.</li> <li>3. Acquaint Students about the main developments in the Contemporary world</li> <li>4. Impart knowledge about world concepts.</li> <li>5. Enable students to understand the economic transition in World during the 20thCentury.</li> <li>6. Become aware of the principles, forces, processes and problems of the recent times.</li> <li>7. Acquaint the students with growth of various political movements that helped the modernworld. Highlight the rise and growth of nationalism as a movement in different parts of the world.</li> </ol>



6.	<b>T.Y.B.A</b> <b>INTRODUCTION TO HISTORY</b> <b>LEVEL: S3</b>	<p>Orient students about how history is studied, written and understood.</p> <ol style="list-style-type: none"> <li>2. Explain methods and tools of data collection</li> <li>3. Understand the meaning of Evolution of Historiography.</li> <li>4. Study the Various Views of Historiography.</li> <li>5. Study the approaches to Historiography.</li> <li>6. Study the types of Indian Historiography.</li> <li>7. Describe importance of inter-disciplinary research.</li> <li>8. Introduce students to the basics of research.</li> <li>9. Acquaint the student with the recent research in History.</li> <li>10. Learn how to use sources in their presentation.</li> </ol>
7.	<b>T.Y.B.A</b> <b>HISTORY OF USA (1914 – 1992)</b> <b>LEVEL: S4</b>	<p>Acquaint Students about the rise and development of the USA as a world power.</p> <ol style="list-style-type: none"> <li>2. Acquaint Students about the main developments in the Contemporary World</li> <li>3. Comprehend the socio economic reforms in 1914 –1992.</li> <li>4. Acquaint the students with the principles of foreign policy.</li> <li>5. Orient the students with political history of Europe.</li> </ol>

<b>Department of Commerce</b>			
<b>Programme: B.Com</b>			
		<b>Programme Outcome</b>	<p>To develops the required knowledge, skills and attitudes for the handling of Trade, Commerce and Industry.</p> <p>To meet the growing needs of the business society.</p> <p>The Commerce education is dedicated to developing tomorrow's leaders, managers, and professionals</p>
		<b>Programme Specific Outcome</b>	<p>To imparting commerce education needs to be more dynamic to incorporate all local and global changes in the field of trade and commerce. To focus on student centric learning methods, which include use of Information and Communication Technology,</p> <p>To innovative methods of teaching and learning and emphasis on industry interaction to enable the learners to take up professional challenges more effectively.</p>
<b>Sr. No</b>	<b>Class</b>	<b>Subject</b>	<b>Outcome</b>
<b>1</b> <b>F Y B.Com</b>		<b>Computer Concepts and Application - I</b>	<p>1. To make the students familiar with Computer environment.</p> <p>2. To make the students familiar with the basics of Operating System and business communication tools.</p> <p>3. To make the students familiar with basics of Network, Internet and related concepts.</p> <p>4. To make awareness among students about applications of Internet in Commerce.</p>
		<b>Banking &amp; Finance- I (Fundamentals of Banking I)</b>	<ul style="list-style-type: none"> <li>• To provide knowledge of fundamentals of Banking</li> <li>• To create awareness about various banking concepts</li> <li>• To conceptualize banking operations.</li> </ul>
		<b>Marketing and Salesmanship- I (Fundamentals of Marketing)</b>	<p>1. To introduce the basic concepts in Marketing.</p> <p>2. To give the insight of the basic knowledge of Market Segmentation and Marketing Mix</p> <p>3. To impart knowledge on Product and Price Mix.</p> <p>4. To establish link between commerce, business and marketing.</p> <p>5. To understand the segmentation of markets and Marketing Mix.</p> <p>6. To enable students to apply this knowledge in practicality by enhancing their skills in the field of Marketing.</p>
		<b>Business Environment &amp; Entrepreneurship - I</b>	<p>1) To understand the concept of Business Environment and its aspects</p>

2 S Y Bcom		2) To make students aware about the Business Environment issues and problems of Growth 3) To examine personality competencies most common to majority of successful entrepreneurs and to show how these competencies can be developed or acquired 4) To understand the difference between Entrepreneurial and non-Entrepreneurial behaviour 5) To provide knowledge of the significance of Entrepreneurship in economy 6) To familiarize the students with the contribution of selected institutes working to promote Entrepreneurship 7) To generate entrepreneurial inspiration through the study of successful Entrepreneurs
	<b>Business Communication</b>	1. To understand the concept, process and importance of communication. 2. To develop awareness regarding new trends in business communication. 3. To provide knowledge of various media of communication. 4. To develop business communication skills through the application and exercises.
	<b>Corporate Accounting</b>	1. To make aware the students about the conceptual aspect of corporate accounting 2. To enable the students to develop skills for Computerized Accounting 3. To enable the students to develop skills about accounting standards
	<b>Subject Name -: Business Management Course Code -: 204</b>	1. To provide basic knowledge & understanding about business management concept. 2. To provide an understanding about various functions of management.
	<b>Elements of Company Law.</b>	1) To impart students with the knowledge of fundamentals of Company Law. 2) To update the knowledge of provisions of the Companies Act of 2013. 3) To apprise the students of new concepts involving in company law regime. 4) To acquaint the students with the duties and responsibilities of Key Managerial Personnel. 5) To impart students the provisions and procedures under company law.
	<b>Indian Banking System - I</b>	1. To create the awareness among the students of Indian banking system. 2. To enables students to understand the reforms and other developments in the Indian Banking 3. To provide students insight into the functions and

<b>T Y Bcom.</b>		role of Reserve Bank of India.
	<b>Marketing Management Special Paper I Subject Name -: Marketing Management. Course Code -: 206 – H.</b>	To orient the students recent trends in marketing management To create awareness about marketing of eco friendly products in the society through students To inculcate knowledge of various aspects of marketing management through practical approach To acquaint the students with the use of E-Commerce in competitive environment To help the students understand the influences of marketing management on consumer behavior
	<b>Business Regulatory Framework (Mercantile Law) Course Code -: 301.</b>	1. To acquaint students with the basic concepts, terms & provisions of Mercantile and Business Laws. 2. To develop the awareness among the students regarding these laws affecting business, trade and commerce.
	<b>Auditing &amp; Taxation Course Code -: 304</b>	1. To acquaint themselves about the concept and principles of Auditing, Audit process, Assurance Standards, Tax Audit, and Audit of computerized Systems. 2. To get knowledge about preparation of Audit report. 3. To understand the basic concepts and to acquire knowledge about Computation of Income, Submission of Income Tax Return, Advance Tax, and Tax deducted at Source, Tax Collection Authorities under the Income Tax Act, 1961.
	<b>Advanced Accounting</b>	To impart the knowledge of various accounting concepts To instill the knowledge about accounting procedures, methods and techniques. To acquaint them with practical approach to accounts writing by using software package
	<b>Marketing Management Special Paper II Subject Name -: Marketing Management. Course Code -: 305 – h</b>	I. To understand the concept and functioning of marketing planning and sales management II. To know marketing strategies and organization III. To inform various facets of marketing with regulatory aspects IV. To understand marketing in globalize scenario
	<b>Marketing Management Special Paper III Subject Name -: Marketing Management. Course Code -: 306 – h.</b>	1. To know detailing of Marketing Research 2. To understand the role Brand and Distribution Management in marketing 3. To inform about Marketing and Economic Development 4. To Know of the importance of control on marketing activities
	<b>Banking &amp; Finance Special</b>	1. To acquaint the students with Financial Markets and

	<b>Paper II</b> <b>Subject Name :- Financial Markets and Institutions in India.</b> <b>Course Code :- 305 – b.</b>	its various segments. 2. To give the students and understanding of the operations and developments in financial markets in India. 3. To enable them to gain an insight into the functioning and role of financial institutions in the Indian Economy.
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<b>Programme : M.Com</b>			
<b>Sr. No</b>	<b>Class</b>	<b>Subject</b>	<b>Outcome</b>
	<b>M Com Part I</b>	<b>Outcome of the programme:</b>	Basic Knowledge with recent advancement and its applicability To enhance the abilities of learners to develop the concept of management accounting and its significance in the business.
<b>1</b>	<b>Semester: I</b>	<b>Subject: Management Accounting</b> <b>Course Code: 101</b>	1. To enhance the abilities of learners to analyze the financial statements. 2. To enable the learners to understand, develop and apply the techniques of management accounting in the financial decision making in the business corporate
		<b>Strategic Management</b> <b>Course Code - 102</b>	<ul style="list-style-type: none"> <li>• To introduce the students to the emerging changes in the modern business environment</li> <li>• To develop the analytical , technical and managerial skills of students in the various areas of Business Administration</li> <li>• To empower to students with necessary skill to become effective future managers and leaders</li> <li>• To develop Technical skills among the students for designing and developing effective Functional strategies for growth and sustainability of business</li> </ul>
		<b>Subject Name - Business Administration Special Paper I</b> <b>Subject Title: - Production &amp; Operation Management</b> <b>Course Code - 113</b>	<ul style="list-style-type: none"> <li>• To understand and develop deep insight of Production &amp; Operation Management.</li> <li>• To understand &amp; identity business problems involving operational function, planning and control, design development and quality management.</li> </ul>
		<b>Subject Name - Business Administration Special Paper II</b> <b>Subject Title: - Financial</b>	<ul style="list-style-type: none"> <li>• To acquaint the student with knowledge of various Financial Management terminologies ( Investment ,Credit Planning , Working Capital Management</li> </ul>

		<b>Management Course Code - 114</b>	<ul style="list-style-type: none"> <li>• To understand the concepts relating to Financing &amp; Financial Statement Analysis</li> <li>• To utilize the information gathered to reach an optimum conclusion by a process of reasoning</li> <li>• To enable the students to use their learning to evaluate , make decisions and provide recommendations</li> </ul>
<b>2</b>	<b>M Com Part II</b>	<b>Business Finance. Course Code -: 301</b>	<p>To enable students to acquire sound knowledge of concepts, nature and structure of business finance.</p> <p><b>Subject Name -: Research Methodology for Business.</b>  <b>Course Code -: 302.</b>  <b>Subject Name -: Research Methodology for Business.</b>  <b>Course Code -: 302.</b>  <b>Objectives:</b></p> <ol style="list-style-type: none"> <li>1. To acquaint the students with the areas of Business Research Activities.</li> <li>2. To enhance capabilities of students to conduct the research in the field of business and social sciences.</li> <li>3. To enable students, in developing the most appropriate methodology for their research studies.</li> <li>4. To make them familiar with the art of using different research methods and techniques.</li> </ol>
		<b>Research Methodology for Business. Course Code -: 302.</b>	<ol style="list-style-type: none"> <li>1. To acquaint the students with the areas of Business Research Activities.</li> <li>2. To enhance capabilities of students to conduct the research in the field of business and social sciences.</li> <li>3. To enable students, in developing the most appropriate methodology for their research studies.</li> <li>4. To make them familiar with the art of using different research methods and techniques.</li> </ol>

# Department of Chemistry

<b>BACHELOR OF SCIENCE</b>	
<b>PROGRAMME: B.Sc. Chemistry</b>	
<b>Programme Outcomes</b>	PO-1. Solve the problem and also think methodically ,independently & draw logical conclusion.
	PO-2. Use modern techniques ,decent equipments & chemistry software.
	PO-3. Find out the green root for chemical reaction for sustainable development.
	PO-4. Employ critical thinking & specific knowledge to design, carry out, record & analyze results of chemical reactions.
<b>Program Specific Outcomes</b>	PSO-1. Understand good laboratory practices & safety.
	PSO-2. Identify chemical formulae & solve numerical problems.
	PSO-3. To explain nomenclature, stereochemistry, structure, reactivity & mechanisms of chemical reactions.
	PSO-4.. Use modern chemical tools ,models, charts & equipments.
	PSO-5. Gain the knowledge of chemistry through theory & practicals.
	PSO-6. Make aware & handle the sophisticated instruments/ equipments.
<b>Course Outcomes</b>	
<b>FYBSc</b>	
<b>Chemistry paper I</b>	CO-1. Developed & understanding of the breadth & concept of physical chemistry.
	Co-2. Application of mathematical tools to calculate thermodynamic & kinetic property.
	Co-3. An understanding of method employ for problem solving in physical chemistry.
<b>Chemistry paper II</b>	CO-1. Understand nucleophile & electrophile group & their properties.
	CO-2. Interpret reactivity of alkane, alkene, alkyne,
	CO-3. Prepare alkane, alkene, alkyne using different method.
	CO-4. Distinguish aliphatic & aromatic halogenated organic compounds.
	CO-5. Design the reaction of aliphatic hydrocarbon.
<b>SYBSc</b>	
<b>Chemistry paper I</b>	CO-1. The derivation of rate equation from mechanistic data.
	CO-2. State & apply the law of thermodynamics.
	CO-3. Limitations & use of model for the solutions of applied problems involving chemical thermodynamics & kinetics.
	CO-4. Performing risk assessment of chemical experiment & chemical analytical activity.
	CO-5. To solve problems related to chemical analysis & interpret analytical result.
<b>Chemistry paper II</b>	CO-1. To know the all allotropes of carbon.
	CO-2. Reactivity pattern of conjugated & aromatic molecule.
	CO-3. To know the various method employed for reaction like oxidation ,Reduction, heterocyclic ring formation.

	CO-4. Identify chiral centre in given organic compounds.
	CO-5. To understand electrolysis of alumina & its refining.
	CO-6. To know purification of bauxite ore.
<b>TYBSc</b>	
<b>Chemistry paper I</b>	CO-1. Derive Schrodinger's time dependent & time independent equations.
	CO-2. Solve the cell reaction & calculate E.M.F
	CO-3. Write an expression for the rate constant for third order reaction.
	CO-4. Understand the term specific volume, molar volume & molar refraction.
	CO-5. Know the Redox reaction.
<b>Chemistry paper II</b>	CO-1. Know the shapes of d-orbitals & degeneracy.
	CO-2. Draw the geometrical & optical isomerism of complexes.
	CO-3. Know the meaning of various terms involved in co-ordination chemistry.
	CO-4. Study the Bio-inorganic chemistry.
	CO-5. Understand different operation in stoichiometric molecule.
	CO-6. Study the electronic configuration of lanthanides & actinides.
<b>Chemistry paper III</b>	CO-1. To know about the acid base concept of Arrhenius, Lowry-Bronsted.
	CO-2. Discuss kinetics, mechanism & stereochemistry of $SN^1$ & $SN^2$ reactions.
	CO-3. To study UV, IR & NMR spectroscopy.
	CO-4. Understand the difference between carbocation & carbanion.
	CO-5. Discuss different types of rearrangement reactions.
<b>Chemistry paper IV</b>	CO-1. Study the methods of thermogravimetric analysis.
	CO-2. Measure the absorbance of atoms by AAS.
	CO-3. To give an extended knowledge about chromatographic techniques.
	CO-4. To study principle, construction & working of GC & HPLC
	CO-5. Discuss the problems based on distribution coefficient & extraction techniques.
<b>Chemistry paper V</b>	CO-1. Classify various insecticides.
	CO-2. Study the manufacture of cement, glass, dyes, soap & detergents by modern methods.
	CO-3. To study the waste management.
	CO-4. To study the various types of surfactants.
	CO-5. To study different types of polymer.
	CO-6. To know about molasses & bagasse.
<b>Chemistry paper VI</b>	CO-1. Identify relation ship between chemical exposure & effects on physiological system & design strategies.
	CO-2. To know the need of Green chemistry technology.
	CO-3. To know the methods of water purification & waste water treatment plants.
	CO-4. To know important and conservation of environment.
	CO-5. To know techniques use to monitor hazardous materials present in the environment.
	CO-6. To know the natural resources of energy.



<b>MASTER OF SCIENCE</b>	
<b>PROGRAMME: M.Sc. Analytical Chemistry</b>	
<b>Programme Outcomes</b>	PO-1.To develop a strong footing in the fundamentals and specialize in the disciplines of his/her
	PO-2. To develop in depth understanding of various aspects of the subject
	PO-3. To have deeper understanding of laws of nature through subjects like material science, Nanotechnology, quantum mechanics, Bio-organic Chemistry etc.
	PO-4. The ability of problem solving will be enhanced. Students can apply principles in chemistry to real life problems
<b>Program Specific Outcomes</b>	PSO-1. After completion of program, students will be able to have in-depth knowledge of basic concepts in Chemistry
	PSO-2.Students will be able to apply the laws of Physics in real life situations to solve the problems.
	PSO-3. Students develop the aptitude of doing research by undertaking small projects.
	PSO-4..The student will have set his foundation to pursue higher education in Chemistry.
	PSO-5. After completing the program student will have developed interdisciplinary approach and can pursue higher studies in subjects other than Chemistry.
	PSO-6.
<b>Course Outcomes</b> <b>M. Sc. I</b>	
<b>CHP-110</b>	CO-1. Students should understand the concept of thermodynamics
	Co-2. The course aims to provide a fundamental understanding of physical chemistry, students learn the concept of Gibbs and Helmholtz energies, Chemical potential, Expressing Chemical equilibrium in terms of chemical potential.
	Co-3. Elements of quantum chemistry, wave particle duality, uncertainty principle, wave function and its interpretation, well behaved functions, orthonormal functions, Schrodinger equation, particle in a box, degeneracy, quantum mechanical harmonic oscillator, and quantum tunnelling are introduced.
	Co-4. Students are made aware of Chemical kinetics and reaction dynamics topics such as Reversible reactions, the principle of microscopic

	reversibility, steady state approximation, elucidating mechanism using SSA.
<b>CHI-130</b>	CO-1. Students should visualize in 3 dimension to understand the concept of symmetry
	CO-2. Students are made to understand the symmetry and group theory and use this knowledge to interpret the properties like dipole moment, optical activity, and signals in IR and Raman spectroscopy for structure identification.
	CO-3. Students are also made to understand the periodic trends in properties of S and P block elements and their applications in fields like catalysis, industry, human metabolism
	CO-4. Students should understand the detail chemistry of S & P elements
<b>CHO-150</b>	CO-1. The main intention of this course is to make the students perfect for mechanisms of some basic organic chemistry.
	CO-2. This is a primary course for both organic & Drug Chemistry students.
	CO-3. This course is designed to make students aware of basic organic chemistry, including reaction mechanism, how to write structures of organic molecules more realistically, Stereochemistry of carbon compounds, etc.
<b>CHA-190</b>	CO-1. This course is aimed at providing student necessary guidelines for Safety in Chemical Laboratory and Good Laboratory Practices.
	CO-2. Students get acquainted with different types of hazards at the workplace, use of personal protective and other safety equipment, types of fire extinguishers & method of use.
	CO-3. Inventory Management, Storage and Disposal and importance and principle of Good Laboratory Practices (GLP)
<b>M. Sc. II</b>	
<b>CHA-210</b>	CO-1. The course aims to provide an understanding of physical chemistry, In this course, the fundamentals of molecular spectroscopy are introduced. Nuclear and radiation Chemistry concepts are introduced.
	CO-2. Students learn basic elements of rotational, vibrational, Raman and electronic spectroscopy.
	CO-3. Students get familiar with Chemical Bonding: Valence Bond theory, hybrid orbitals, geometry and hybridization, Molecular Orbital Theory, linear variation method, Approximations underlying Huckel theory, bond order, Aromaticity, Applications of Huckel theory
<b>CHA-230</b>	CO-1. Students are made aware of spectral and magnetic properties of d and f block elements and spectrophotometric analysis of metals like Cr, Mn,

	Ni and magnetic behavior of various complexes of f block elements in MRI and as TV phosphors.
	CO-2. Students are also made aware of the role of the metal ion in biologically active compounds like Hb, Mb cytochromes and use of anticancer drugs i.e. platinum complexes.
<b>CHA-250</b>	CO-1. The first section of this course is aimed to make students familiar with various basic organic reactions with different examples along with their mechanism.
	CO-2. The second section deals with the basic introduction to various Spectroscopic methods like UV, IR, $^1\text{H}$ , $^{13}\text{C}$ -NMR and Mass Spectrometry and their application in structure determination of various organic molecules.
<b>CHA-290</b>	CO-1. Understanding the importance and properties of biomolecules like proteins, carbohydrates, lipids, nucleic acid, etc.
	CO-2. Students get familiarized with cell types, cell organelles, biomembrane for drug transport and fundamental processes like replication, transcription, and translation.
	CO-3. Students learn the scope of biochemistry subject in pharmaceutical sciences.
<b>CH-107</b> <b>Physical Chemistry Practical</b>	CO-1. These techniques will enable them to work as quality control chemist in various labs and such organizations.
	CO-2. Students are trained to use techniques such as pH metry, Conductometry, Potentiometry, Colorimetry, Spectrophotometry, Refractometry, and G. M. Counter.
<b>CH -127</b> <b>Inorganic Chemistry Practical</b>	CO-1. Students are trained for the preparation of various solutions, synthesis of various inorganic complexes and their characterization.
	CO-2. The students are trained for the handling of natural materials and their quantitative analysis which involves disintegration, separation and individual estimations.
	CO-3. They are trained to handle various equipment like spectrophotometer, flame photometer, conductometer, etc.
<b>CH- 248</b> <b>Organic Chemistry Practical</b>	Co.1: Students are trained to different purification techniques in organic chemistry like recrystallization, distillation, steam distillation, and extraction.
	CO.2: Students are made aware of safety techniques and the handling of chemicals.
	CO.3: Students are made aware of carrying out different types of reactions and their workup methods.
<b>CHA-390</b>	1. To study electronanalytical and radioanalytical methods like coulometry, voltametry, polarographic methods, Amperometry.
	2. To study the radioanalytical methods like activation analysis, isotopic dilution and radiometric titration

	3. To study TGA, DTA, DCS technique in analytical chemistry.
<b>CHA-391</b>	1. To study the pharmaceutical analysis of drugs and compounds.
	2. To understand the role of FDA in pharmaceutical industry.
	3. Biological, Microbiological test and assay of different drugs
	4. To analysis of vegetable drugs by analytical methods.
	5. To understand the quality control of different raw material and dosage.
<b>CHA-392</b>	1. Students are introduced to the new analytical techniques like extraction, Solid phase and SPME etc
	2. To understanding different extraction techniques.
	3. To Study of atomic spectroscopic analysis like AAS, FES, AES, ICPAES.
	4. To understand the Atomic fluorescence spectroscopy
<b>CHA-380</b>	1. To study analytical methods development and validation and inter laboratory transfer.
	2. To understand the specific methods and application of analytical methods.
<b>CHA-490</b>	1. Students train in analytical methods like electron spectroscopy, X-ray methods of analysis, Microscopy.
	2. To study the chemiluminescence, Fluorescence and phosphorescence and NMR techniques
<b>CHA-491</b>	1. To study analytical methods for analysis of fertilizer, detergents, water and polymer, paint and pigment
<b>CHA-492</b>	1. Students understand different methods of analysis and its application.
	2. To study carbon nanostructure and application nanotechnology.

# Department of Botany

PROGRAMME: B. Sc. BOTONY	
Course Outcomes FYBSc	
<b>Botony I Sem I Plant Diversity</b>	Co -1 Identify the different location of Algae and explain their habitat cell structure,pigment ,resurve food in them.Explain their reproduction types.
	Co-2. Explain different mode of nutrition in fungi classification occurensstruction reproduction life cycle of albugo.
	Co-3. Bryophytes :- Describe the habit habitat reproduction life cycle of riccia. 2) Pteridophytes :-Study of life cycle Nephroiepis .
	Co-4.Gymnosperm: Study of life cycle of cycus.
	Co-5:Angiosperm : Evolution of angiosperm genral characters .
<b>Botony ( Paper-I) Sem II Plant morphology&amp;Anatomy</b>	CO-1. Introduction to morphology , Disruptive&interpritive morphology plant breeding ,Botanical nomenclature
	CO-2. Study of vegetative part of plant, Types of root modification ,types of leaf modification , types of stem modification .
	CO-3. Study of reproductive part of plant , Inflorescences , Types , Shapes , Placentation, Androecium, Gynoecium, Calyx , Corolla, perianth.
	CO-4. Types of tissues , Simple , complex ,vascular, meristmatic.
	CO-5. To study the internal organisation of plant body .internal structure of dicotyledon root ,stem ,leaf. Internal structure of monocotyledon root, stem,leaf.
SY Bsc	
<b>Botony (Paper I) Sem I plant Taxonomy &amp; Angiosperm</b>	CO-1. Introduction to taxonomy,scopes and important .
	CO-2. Sources of taxonomy , flora>manual , revision , journals,periodical
	CO-3. Study of families asclepidaceae,solanaceae,rubiaceae,myrtaceae,meliaceae,annonaceae& their economic important.
	CO-4. What is Ecological grouping of plant Hydrophytes Xerophytes.Mesophytes , Halophytes.
	CO-5.Introduction to ecology : Study of Food chain, Food web , Ecological pyramids .
<b>Sem II (PaperI) Plant Anatomy &amp; Embryology</b>	CO-1. Introduction to plant anatomy , significances , importance ,types of tissues .
	CO-2. Epidermal tissue system, epidermal outgrowth ,cell structure ,function .
	CO-3. Mechanical tissue system ,introduction principle, types of tissues.
	CO-4. Vascular tissue system ; Introduction , structure and function of Xylem, phloem,cambium.
	CO-5. What is Normal secondary growth, Introduction to cambium and its role secondary growth in stem of Helianthus annuus (sunflower).Annonasqamosa stem , periderm bark, tylosis,lenticles.
	CO-6. What is Anomalous secondary growth introduction to causes of anomalous secondary growth,abnormal secondary growth in Bignonia stem , root of radish , growth in Dracaena.
	CO-7.Introduction to plant embryology , introduction & scope .
	CO-8.To study the Microsporangium& male gametophytes : Introduction , microsporangium microsporogenesis, male gametophytes.
	CO -9.To study the Megasporogium& female gametophytes ,: Introduction megasporogium , megasporogenesis.
	CO-10 .Fertilization,What is pollination , explain the pollination types ( zoophily, anemophily hydrophily,) Germination of pollen grains

## Department of Zoology

<b>Course Outcomes</b>	
<b>FYB Sc</b>	
<b>Paper I ZY-111 &amp; ZY-121 (Animal Diversity I &amp; II)</b>	CO-1. The student will be able to understand classify and identify the diversity of animals.
	Co-2. The student understands the importance of classification of animals and classifies them effectively using the six levels of classification.
	Co-3. The student knows his role in nature as a protector, preserver and promoter of life which he has achieved by learning, observing and understanding life.
<b>Paper II ZY-112 (Animal Ecology)</b>	CO-1. The learners will be able to identify and critically evaluate their own beliefs, values and actions in relation to professional and societal standards of ethics and its impact on ecosystem and biosphere due to the dynamics in population.
	CO-2. To understand anticipate, analyse and evaluate natural resource issues and act on a lifestyle that conserves nature.
	CO-3. The Learner understands and appreciates the diversity of ecosystems and applies beyond the syllabi to understand the local lifestyle and problems of the community.
	CO-4. The learner will be able to link the intricacies of food chains, food webs and link it with human life for its betterment and for non-exploitation of the biotic and abiotic components.
	CO-5. The working in nature to save environment will help development of leadership skills to promote betterment of environment.
<b>Paper II ZY-122 (Cell Biology)</b>	CO-1. The learner will understand the importance of cell as a structural and functional unit of life.
	CO-2. The learner understands and compares between the prokaryotic and eukaryotic system and extrapolates the life to the aspect of development.
	CO-3. The dynamism of bio membranes indicates the dynamism of life. Its working mechanism and precision are responsible for our performance in life.
	CO-4. The cellular mechanisms and its functioning depend on endo-membranes and structures. They are best studied with microscopy.
<b>SYB Sc</b>	
<b>Paper I ZY-211 (Animal Systematics &amp; Diversity III)</b>	CO-1 Understand the evolution, history of phylum.
	CO-2 Student will be able to differentiate between chordate and non chordate.
	CO-3 Study of the external as well as internal characters of non chordates.
	CO-4 Understanding the basics of systematics by learning the diagnostic and general characters of various groups.
	CO-5 Understand the various internal systems like Digestive system, nervous system with the help of charts.
	CO-6 Understand the economical importance of Mollusca.

<b>Paper I ZY-221 (Animal Systematics &amp; Diversity IV)</b>	CO-1 Understand the evolution, history of major phyla.
	CO-2 Understand about the Chordate animals.
	CO-3 To study the external as well as internal characters of chordates.
	CO-4 The learner will understand the difference between poisonous and non-poisonous snakes migration in birds, aerial adaptations, desert adaptations beak and feet modifications in birds.
	CO-5 Understand the various internal systems like Digestive system, nervous system with the help of charts.
<b>Paper II ZY-212 (Applied Zoology-I)</b>	CO-1. To understand the Aquaculture concept, Culture methods of fishes: Freshwater aquaculture systems and Freshwater prawn culture.
	CO-2. To learn the basic principles involved in the culture and breeding of common edible and ornamental fishes
	CO-3 To aware the students about economic importance of fisheries, Technologies in preservation of fishes and production of byproducts
	CO-4 To learn the culture breeding and marketing techniques of common indigenous ornamental fishes.
	CO-5 The students will able to identify and control the agricultural pests by adopting different methods of pest control.
<b>Paper II ZY-222 (Applied Zoology-II)</b>	CO-1. The students will get introduced with apiculture and sericulture.
	CO-2. To understand the various aspects of honey bee and silkworm for effective rearing practices.
	CO-3 To aware the students about economic importance of apiculture and sericulture, various bee products, qualities of silk etc.
	CO-4 students will learn post harvest processing of silk cocoons.
	CO-5 The students will able to have self employment in agricultural sector.

## Department of Physics

Sr. No.	Program	Program Objectives	Program Specific Outcome
1.	<b>Physics</b>	<ol style="list-style-type: none"> <li>To foster scientific attitude provide in depth knowledge of scientific &amp; technological concept of Physics.</li> <li>To Familiarize with recent scientific &amp; technological development.</li> <li>To help students to learn various experimental &amp; computational tools there by developing analytical abilities to address real word problem.</li> </ol>	<ol style="list-style-type: none"> <li>Students will have acquired necessary skills &amp; expertise to work in industry.</li> <li>Students will have acquired necessary skills for working in research.</li> <li>Students will have acquired necessary skills to teach physics in colleges.</li> <li>To help students build up progressive &amp; successful career in Physics.</li> </ol>

### F.Y.BSc

Sr. No.	Course	Course Outcome
1.	<b>Mechanics</b>	<ol style="list-style-type: none"> <li>The students will be able to apply the variational principles to real physical problem.</li> <li>At the end of course student will have through knowledge &amp; problem solving skills related to the mechanics.</li> </ol>
2.	<b>Physics Principles and Application</b>	<ol style="list-style-type: none"> <li>Understanding of basics law of physics.</li> <li>To understand the atomic excitation &amp; laser principles.</li> <li>To understand the bonding mechanism in molecules &amp; rotational &amp; vibrational energy level of diatomic molecules.</li> </ol>
3.	<b>Electromagnetism</b>	<ol style="list-style-type: none"> <li>Understanding of basics law of electromagnetism.</li> <li>The students will able to analyze radiation system in which the electric dipole, magnetic dipole or electric quadruple dominate.</li> <li>Demonstrate an understanding of magnetization of materials.</li> </ol>
4.	<b>Heat and Thermodynamics</b>	<ol style="list-style-type: none"> <li>Apply the laws of thermodynamic to formulate the relations necessary to analyze a thermodynamics process.</li> <li>Understand the types of thermometers &amp; their usage.</li> <li>Describe the properties of &amp; relationships between the properties of a pure substance.</li> </ol>

### S.Y.BSc

Sr. No.	Course	Course Outcome
1.	<b>Mathematical Method in Physics</b>	<ol style="list-style-type: none"> <li>Understand the complex algebra useful in Physics course.</li> <li>Understand the concept of partial differentiation.</li> <li>Understand the vectors algebra useful in mathematics &amp; Physics.</li> </ol>
2.	<b>Electronics</b>	<ol style="list-style-type: none"> <li>Understand the relation in electricity.</li> <li>Design circuits using transistors &amp; operational amplifiers.</li> <li>Understand the Boolean algebra &amp; logic circuits.</li> </ol>
3.	<b>Oscillation, Wave &amp; Sound</b>	<ol style="list-style-type: none"> <li>Understand the Physics &amp; Mathematics of oscillations.</li> <li>Formulate equation of motion for simple harmonics, damped &amp; forced oscillator &amp; understand their physical content in a variety of application.</li> </ol>
4.	<b>Optics</b>	<ol style="list-style-type: none"> <li>Acquire the basic concepts of wave optics.</li> <li>Understand optical phenomena such as polarization, birefringence, interference &amp; diffraction in terms of the wave model.</li> <li>Analyze simple examples of interference &amp; diffraction phenomena.</li> </ol>



## Department of Mathematics

PROGRAMME: BSc	
Course Outcomes (Mathematics)	
<b>F.Y BSc</b> <b>Algebra and Geometry</b>	CO-1. Prove results involving divisibility and greatest common divisors .
	Co-2. Solve system of linear equations.
	Co-3. Use Cayley Hamilton Theorem to find the inverse of matrix.
	Co-4 polynomial addition ,subtraction division , multiplication , roots of polynomials and relation between roots and coefficient of polynomial .
	Co- 5compute the angle between a line and a plane ,length of perpendicular from a point to a line .
	Co -1 to calculate limits in indeterminate forms by a repeated use of L H Hospitals rule .
	CO-2. Extract the solution of differential equations of the first order and of the first degree by variables separable , homogeneous and non-homogeneous method .
	CO-3. To solve algebraic equations and inequalities involving the square root modulus function .
	CO-4. To understand the difference between equations and identities and to prove simple identities and inequalities .
	CO-5. Be able to calculate limits by substitution and by eliminating zero denominators .